	Type of Course: Value Added Course	
Course Code: VACA203	Title: Machine Learning with Python	Duration: 40hrs
Course offered to-BCA 2nd year, B.Sc. (H) CS 2nd year	Course Coordinator: Ms. Shivangi Ghildiyal	
Course Overview	This VAC(Value Added Course) is offered by the Faculty of Computer modules to complete this course, upon completion you will be awarded a Cadded course you will learn technologies like Python and ML algorithms the students studying in the Faculty of Computer Applications. The follow	Certificate. In this value. This course is for a
Course Prerequisites	Interest to learn ,Laptop, Understanding of Basic Programming Concep Mathematics (Linear Algebra, Probability and statistics).	t of any language an
Objectives	<ul> <li>To setup the environment to run the python programs</li> <li>To Understand the essential concepts of Python programming</li> <li>To understand concepts about Data Types and Looping state</li> <li>To learn the fundamentals of Machine Learning.</li> <li>To understand basic component of an intelligence system.</li> <li>To explore applications of machine learning.</li> <li>To understand different types of machine learning algorithm</li> <li>To learn how to use machine learning model to solve real we</li> </ul>	ements as and tools.
Course Outcome	<ul> <li>List various approaches of Machine Learning.</li> <li>Master machine learning on python</li> <li>Use Machine learning for personal use</li> <li>Describe machine learning algorithms to solve the real-worl</li> <li>Develop machine learning models.</li> <li>Classify data using Logistic regression</li> <li>Identify appropriate models for solving machine learning prediction.</li> <li>Apply learning techniques to solve real world machine learning to Evaluate and interpret the results of the algorithms.</li> </ul>	oblems.
Module No.	Module Title	No. of hours (per module)
Python's execution mode	Introduction Setting up the environment, Installing Python with an Anaconda, Running el, Demo on python IDEs and code editors (Jupyter Notebook, Visual studiam to display Hello world in Python.	python program, o code) Keywords,
Module II  Pules to declare variable	Working with variables to manage the data s, Built-in Data Types: Numbers, Boolean, Immutable sequences, Mutable aries and its operations, List and its operations, Tuples and its operations, C	sequences, Set types Degrators and its type
Module III	Decision making and flow control	3
Iterating and Making Dewhile, Nesting of loops, statement and pass kexw	cisions: Conditional programming: if, if-else, if elif else, Looping stateme fump statements: break, flow chart of break statement, continue, flow chart.	nt in python : for and rt of continue

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Module IV	Functions in Python	4
Functions, the building Recursive functions, A filter(), map() and redu	y blocks of code: Use of functions, Scopes and name resolution, Input parame anonymous functions: lambda function, use of lambda function along with but ace().	ters, Return values, ilt in functions like
Module V	Python Libraries required for Machine Learning	8
lumpy: key operations raphs, Introduction to	s using numpy, Pandas: key operations on Data Frames, Matplotlib: Visualize scikit-learn	zing data, creating
Module VI	Introduction to Machine Learning	3
Introduction and histor Data Science in day to	ry of Machine Learning, Overlap between Data Science, Machine Learning at day life & Machine Learning in the modern context.	nd AI, Applications
Module VII	Supervised Learning and Linear Regression	8
	pervised, unsupervised and semi-supervised learning and Reinforcement lear- tion, Method of gradient descent	ning, Linear
Module VIII	Classification and Logistic Regression	8
Introduction to classification Logistic Regression	ication problems and Types of classification - Binary Classification, Multi-Cl	ass Classification,
Text Books	I. Introduction to Machine Learning with Python: A Guide for Data Scie Müller and Sarah Guido, O'Reilly, 2016.	entists, Andreas C.
Reference Books	I D d C II I I I I I I I I I I I I I I I I	
Reference Books	1. Python Cookbook, 3rd Edition by David Beazley (Author), Brian K. Jo Quizzes, Class Test	ones (Author)

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### Department of Computer Applications

02 Nov 2020

### CIRCULAR .

### VALUE ADDED COURSE (Machine Learning with Python)- BCA, B.Sc.(H)CS

Students of BCA and B.Sc.(H) CS 2<sup>nd</sup> year are hereby informed that value added course "Machine Learning with Python" is scheduled from 18<sup>th</sup> November 2020 in your respective classroom, Academic Block-III.

### Schedule:

Time Slot: 03:00 PM to 05:00 PMKey Speaker: Ms.Shivangi Ghildiyal

• Duration: 2 hrs

### **Program Overview:**

The objective of this course is to develop python skills of students who are ready to deal with complexities in the computing world and are able to maintain machine learning skills as per the requirement.

Head

Department of Computer Applic Faculty of Computer Application Invertis University, Bareilly (UP)

Mr. Jitendra Choudhary

(HOD)

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### MACHINE LEARNING WITH PYTHON

Organised By.

FACULTY OF COMPUTER ALPALICATIONS

HOD: Department of Computer Application Faculty of Computer Applications Mr. Jitenora Chromodalians, V. Barediy (1974)

Speaker:

Ms, Shivangi Ghildiyal



18 Nov- 16 Dec 2020



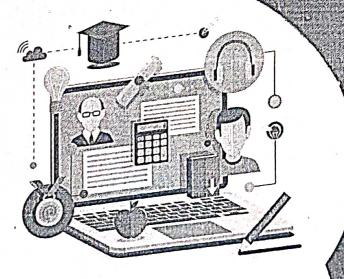
03 PM TC 05 PM

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### **COURSE OVERVIEW**

This course's goal is to teach you machine learning ML algorithms and how to utilise them with scikit-learn, pandas, and other Python tools. Graphs and plots can be made using the Matplotlib library to visualise



HOÓ

MR. JITENDRA CHOUDHAR

real-world data.

Head

Department of Computer Applications Faculty of Computer Applications Invertis University, Bereilly (UP)

Registrar Invertis University Bareilly SPEAKER MS. SHIVANGI GHILDIYAL

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S.No	Name	Course	Student ID	Year	18	19	20	23	24	75	26	27	1	2	3	4	7	8	9	10	11	14	15	16
1	VISHAL KUMAR SAINI	BCA	BC2017155	2020-21	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
2	RITIK SAXENA	BCA	BC2018073	2020-21	P	P	P	P	ľ	A	P	θ	P	P	P	P	A	P	P	P	P	P	P	P
3	GURPREET KAUR	BCA	BC2018025	2020-21	P	0	P	P	P	P	P	P	P	P	A	P	P	P	9	0	P	P	P	P
4	MAHAK GUPTA	BCA	BC2018032	2020-21	P	P	P	P	0	P	P	P	D	P	P	P	A	1	1	P	P	P	Ď	1
5	DEEPAK SAXENA	BCA	BC2018037	2020-21	P	P	r	P	P	P	P	A	P	P	P	P	P	P	P	P	ľ	B	P	1
6	AREEB AHMAD	BCA	BC2018038	2020-21	P	P	P	P	P	A	P	P	P	A	P	P	P	P	1	0	r	P	P	10
7	LOV DUBEY	BCA	BC2018048	2020-21	P	A	8	P	P	P	P	P	P	P	P	P	P	9	A	P	P	P	1	L
8	ADITYA VARSHNEY	BCA	BC2018055	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1	1
9	AKASH PAL	BCA	BC2018066	2020-21	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	1	P	P	P
10	KESHAV SINGH	BCA	BC2018068	2020-21	P	P	P	P	A	P	P	A	P	P	P	P	C	0	P	P	1	P	P	P
11	KM AYUSHI SINGII	BCA	BC2018069	2020-21	P	P	P	P	P	P	D	P	P	P	P	0	P	P	P	P	P	P	P	1
12	GAURAV RATHAUR	BCA	BC2018026	2020-21	R	P	A	P	P	A	P	P	P	P	P	P	P	9	P	1	D	P	10	1
13	AYUSHI TRIPATHI	BCA	BC2018044	2020-21	A	P	0	P	P	P	P	P	P	P	P	P	P	P	P	0	1	If	1	P
14	AMAN KUMAR	BCA	BC2018096	2020-21	P	P	P	P	D	P	P	P	P	P	P	P	P	A	10	P	P	P	P	1
15	AMIT KUMAR GANGWAR	BCA	BC2018045	2020-21	P	P	P	P	P	P	P	IP	P	P	P	P	P	P	D	P	11	1	P	
16	ANKIT KUMAR MISHRA	BCA	BCSS2018012	2020-21	P	P	n	P	P	P	18	P	P	P	P	A	P	P	8	P	10	P	P	1
17	GAURI RASTOGI	BCA	BPM2018001	2020-21	P	P	P	P	P	A	P	P	P	P	P	P	P	P	1	B	1	P	P	
18	ANITA YADAV	BCA	BSCA2018007	2020-21	A	8	P	P	P	P	A	P	P	P	P	P	P	P	P	P	1	1	P	1
19	AJAY BHARDWAJ	BCA	LDEE2018008	2020-21	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	19	P	1	
20	AMAN KUMAR	BCA	LDMP2018008	2020-2	A	0	P	P	P	P	P	P	P	P	P	P	P	A	P	18	1	P		1
21	ADITYA KUMAR	BCA	BC2018027	2020-2	P	P	P	P	0	P	P	P	D	P	P	P	P	P	P	P	14	P	P	1
22	ADITYA PANT	BCA	BC2018070	2020-2	1 6	P	P	P	P	P	A	P	P	P	P	P	A	18	16	10	11	P	1	1
23	ESHANT VERMA	BCA	BC2018074	2020-2	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	B	1	P	
24	ANIL KUMAR	BCA	BC2018085	2020-2	18	P	P	P	P	P	11	P	P	P	1	I	P	11	IA	P	P	P	P	1
25	DEVESH RAGHUVANSHI	BCA	BC2018089	2020-2	P	IP	P	P	P	11	P	P	P	16	P	P	P	1	P	P	10	P	P	1
26	MOHD AFFAN FAROOQUI	BCA	BC2018095	2020-2	1 1	P	P	P	P	P	P	P	P	P	11	P	P	11	18	TP.	P	f	18	1
27	AJAY KUMAR	BCA	BC2018103	2020-2	1 1	P	f	IP	P	P	119	P	11	P	P	P	İ	11	P	119	I	1	P	1
21	8 ANUBHAV KHARE	BCA	BC2018104	2020-2	1 1	IP	P	IF	P	P	P	16	1	P	P	P	IP	P	16	TP)	18	1º	IP.	1
2	9 AKASH VERMA	BCA	BC2018109	2020-2	1 f	P	P	18	P	If	P	P	P	11	P	P	HÀ	If	TH	UP.	IY	r	IP.	1
3	0 AKASH SAHAI	BCA	BC2018057	2020-2	1 P		P	IF	1	P	If	P	1	P	P	TÜ	11	P	1	1	10	1	1	1
3	I DEEPU GUPTA	BCA	BC2018067	2020-2	1 1	P	P	If	F	4	P	1	P	10	IP	P	P	II	If	P	P	F	4P	1
3	2 ABHISHEK SHARMA	BCA	BC2018086	2020-2	10	P	P	18	P	P	1	P	P	P	P	P	1	100	1	11	TP	11	FA	1
3	3 APEKSHA VERMA	BCA	BC2018128	2020-2	n P	P	P	P	If	18	F	P	P	IP	10	11	P	P		P	P	If	TP	1
3	MANAV SHARMA	BCA	BC2018129	2020-2	II F	1	P	If.	P	P	F	P	1	TÀ	P	P	P	P	1	JP.	IP	IP	P	F
3	95 PRAVEEN	BCA	BC2018131	2020-2	11	P	P	If	If	P	IF	P	1	11	F	1	P	P	1	18	If	1	IP	1
3	MOND TASHIF	BCA	BC2018132	2020-2	21	1	11	1	18	1		1	P	1 P	11		P	16	1 8	P	1	11	1 6	1

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37	SONI SAXENA	BCA	BC2018134	2020-21	1	-	1	P	P	1	1	9	P	1	1	0	0	0	r	1	Ĭ	1	5	
38	PRAGAYA SAXENA	BCA	BC2018138	2020-21	P	1	1	1	1	1	*	1	r	1)	r	1	1	1	1	1	17	1	1	P
39	ANMOL DIXIT	BCA	BC2018084	2020-21	C	P	P	P	1	P	1	r	5	Ľ	B	P	1	P	P	9	1	r	1/	P
40	AKSHI VISHNOI	BCA	BC2018120	2020-21	1	P	P	P	1	1	1'	A	ľ	P	1	P	r	P	Ļ	n	P	P	P	1
41	AJAY	BCA	BC2018127	2020-21	P	A	1	P	P	P	1	9	P	P	r	1	P	P	Ľ,	7	r	1	P	P
42	ANKUR KUMAR SINGH	BCA	BC2018098	2020-21	P	P	P	P	A	P	P	P	P	P	P	11	P	P	1	1	P	A	1	P
43	AKSHAT SAXENA	BCA	BC2018108	2020-21	D	P	9	P	P	P	P	P	A	P	P	1	7	5	P	A	P	P	9	P
44	KM NIDHI SAXENA	BCA	BC2018152	2020-21	P	P	A	P	P	9	P	P	1	P	6	P	P	P	1	1	P	P	P	P
45	ANIKET SINGH	BCA	BC2018118	2020-21	P	P	P	P	P	P	A	1	P	P	10	1	0	P	P	P	A	P	P	A
46	DIVYANSHU SHUKLA	BCA	BC2018119	2020-21	A	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P
47	ARSHAD ANSARI	BCA	BC2018123	2020-21	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	B	P
48	AASIM AHMAD	BCA	BC2018126	2020-21	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
49	AIIIIINAV SINGH	BCA	BC2018142	2020-21	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	8	P	P	P	P
50	NITESH KUMAR	BCA	BC2018147	2020-21	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
51	AISHWARYA GUPTA	BCA	BCSS2018001	2020-21	P	P	P	P	P	P	P	P	P	P	0	P	P	P	P	A	P	P	P	f
52	HARSH SAXENA	BCA	BC2018001	2020-21	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P
53	MOHAMMAD FIROJ	BCA	BC2018149	2020-21	A	9	P	9	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	F
54	GARGI GUPTA	BCA	BB2018050	2020-21	P	9	A	P	P	P	A	P	P	P	P	P	P	P	P	6	P	P	P	P
55	VIKAS KUMAR GANGWAR	BCA	BC2018011	2020-21	0	A	D	P	P	P	P	A	Þ	A	P	P	D	P	P	6	P	P	P	1
56	UVAIS SAIFI	BCA	BC2018012	2020-21	1	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	10
57	SHIVANG SHARMA	BCA	BC2018013	2020-21	8	A	P	P	P	P	P	P	P	P	P	0	P	P	P	P	P	P	ρ	P
58	SURAJ RAWAT	BCA	BC2018018	2020-21	P	P	A	P	P	P	0	P	P	P	0	P	P	0	P	P	P	10	P	1
59	ADISHWAR SHARMA	BCA	BC2017126	2020-21	b	P	P	P	P	P	P	p	0	P	0	A	P	b	P	0	0	P	P	P
60	MUNENDRA PAL	BCA	BC2018005	2020-21	P	P	P	P	P	P	P	P	0	P	0	P	P	P	a	P	1	10	P	6
200	SAKSHI GUPTA	BCA	BC2018016	2020-21	P	P	0	P	P	0	a	P	P	p	0	0	P	0	P	P	P	0	0	10
	PRANJAL SRIVASTAVA	BCA	BC2018017	2020-21	P	A	0	D	0	1	1	P	0	P	0	0	P	P	P	P	10	P	0	0
-	SAHANSH BHARDWAJ	BCA	BC2018021	2020-21	0	0	P	0	0	10	0	b	0	P	0	10	n	0	P	P	18	0	P	0
100		BCA	BC2018028	2020-21	P	0	0	D	0	P	0	0	0	0	0	0	P	0	P	10	P	P	0	0
Series I	SVED AREEB RAZA	No. of Contract of		2020-21	P	P	0	10	0	P	0	10	0	P	11	0	0	0	0	0	8	10	1	1
65	PANKAJ KUMAR	BCA	BC2018034		6	0	0	0	P	0	0	0	1	0	6	0	10	0	1	P	P	10	PP	1
66	SHAURYA PRATAP SINGH	BCA	BC2018035	2020-21	0	0	0	10	10	F	0	6	P	1	0	1	1	10	1	0	10	10	P	P
67	SU OARSHAN PANDEY	BCA	BC2018020	2020-21	1	0	1	0	10	P	0	P	P	0	10	P	1	Ir	11)	I	0	10	1	F
68	SVI D MOIID ZAID	BCA	BC2018031	2020-21	P	1	P	1	P	10	1	11	H	1	Ir	P		10	K	1	14	10	1	1
69	OM SH RATHOUR	BCA	BC2018036	2020-21	1	1	r	P	P	r	P	A	1	1	110	11)	1	1	10	IP	+1	1	1	P
70	SHIVAM KUMAR VERMA	BCA	BC2018041	2020-21	ľ	P	K	P	1	P	P	P	P	H	17	1	1	1	P	P	11	10	P	P
71	SII ANTANU ARORA	BCA	BC2018049	2020-21	P	16	14	P	P	10	r	11	P	IL	Ir.	1	1	P	P	P	P	IT	P	P
72	PRANAV KATIYAR	BCA	BC2018050	2020-21	P	P	1	P	P	L	F	P	P	1	P	P	1	A	11	P	P	11	P	P
73	K > : (*RIYA SHARMA	BCA	BC2018052	2020-21	P	P	P	18	1	P	18	P	A	P	P	P	P	P	P	P	P	P	P	P
74	RITIK KUMAR SAXENA	BCA	BC2018054	2020-21	P	P	P	P	P	P	P	P	P	P	11	IP	P	18	P	P	P	P	P	P
75	RASHI GUPTA	BCA	BC2018071	2020-21	P	P	P	P	P	IP	P	P	IP	IP	P	IP	1	F	A	P	P	P	P	P
76	TAPASVI MISHRA	BCA	BC2018024	2020-2i	P	P	P	P	P	P	P	P	P	P	A	P	IP	P	P	P	P	P	P	P

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77	PRATEEK SAXENA	BCA	BC2018030	2020-21	1	1	1	1	1	H	0	1	1	1	10	Ľ	1	1	1	1	1	9	FIF
78	ROHIT GUPTA	BCA	BC2018040	2020-21	P	P	1	1	1	1	1	1	1	1	1	6	1	H	r	1	r	1	PP
79	SHUBHAM GUPTA	BCA	BC2018042	2020-21	1	9	P	1	K	P	Ľ	P	P	P	1	B	r	1	P	1	H	P	PP
80	MOHD OSAMA	BCA	BC2018056	2020-21	P	P	P	1	1	P	P	r	1	4	P	9	1	1	0	P	1	1	PP
81	VAISHNAVI KHANDELWAL	BCA	BC2018058	2020-21	P	P	D	1	P	P	P	A	P	P	1	A	P	1	1	K	1	P	PP
82	SHAIFALI RASTOGI	BCA	BC2018061	2020-21	P	P	P	P	P	P	1	1	A	1	P	P	A	1	1	K	P	9	PP
83	SHIVAM SINGH	BCA	BC2018064	2020-21	P	P	P	9	P	P	P	P	P	P	1	P	1	P	11	P	P	P	PP
84	VINAY KUMAR	BCA	BC2018076	2020-21	P	P	P	P	A	P	19	P	P	P	P	P	P	A	1	P	P	P	PP
85	SUMIT PATEL	BCA	BC2018072	2020-21	A	P	P	P	P	A	P	P	P	P	9	P	P	P	P	P	P	P	PP
86	SHUBHAM SAGAR	BCA	BC2018081	2020-21	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	A	PP
87	RACHIT SHUKLA	BCA	BC2018082	2020-21	P	P	P	P	P	18	A	11	P	P	P	18	1	P	1	P	P	P	PP
88	SONU KUMAR	BCA	BC2018088	2020-21	P	P	A	P	A	10	P	P	P	P	P	P	ſ	P	P	P	P	P	PA
89	PARAS VERMA	BCA	BC2018102	2020-21	P	P	18	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	PP
90	RANJOD SINGH	BCA	BC2018105	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	PP
91	WAHID YAR KHAN	BCA	BC2018111	2020-21	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	PP
92	RUCHI SAHAI	BCA	BC2018116	2020-21	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	AP
93	RAM KANT DIXIT	BCA	BC2018124	2020-21	A	P	P	P	P	P	P	P	P	P	P	10	A	P	P	P	P	P	PP
94	SACHIN SHAKYA	BCA	BC2018077	2020-21	P	P	P	P	P	6	A	P	P	P	P	P	P	P	P	P	P	P	PP
95	NAKSHATRA DEEP GANGWAR	BCA	BC2018090	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	PP
96	SHUBHAM PRAKASH TOMAR	BCA	BC2018137	2020-21	P	P	P	P	P	A	P	P	P	A	P	P	P	9	P	P	P	P	PA
97	URUJ FATIMA	BCA	BC2018141	2020-21	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P	0	P	PA
98	KM ANSHIKA GUPTA	BCA	BC2018146	2020-21	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	A	PP
99	VATSAL ACHARYA	BCA	BC2018051	2020-21	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	PP
100	VIVEK KUMAR	BCA	BCS2018076	2020-21	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	PP
101	SHIVANK SHARMA	BCA	BC2018078	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	PP
102	VIRENDER SINGH	BCA	BC2018083	2020-21	P	P	P	P	P	P	P	P	P	A	P	P	A	P	P	P	D	P	DE
103	SANJAY MOSHAL	BCA	BC2018087	2020-21	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	A	P	P	PP
104	VAISHNAVI GUPTA	BCA	BC2018094	2020-21	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	0	PP
105	NIDHI DIXIT	BCA	BC2018101	2020-21	P	P	A	P	P	P	P	P	P	À	P	P	P	P	P	P	P	P	PP
106	ROHIT TYAGI	BCA	BC2018106	2020-21	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	PP
107	SURAJ KUMAR	BCA	BC2018107	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	PP
108	TAUHID RAZA	BCA	BC2018112	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	PP
109	ABHINAY SSAXENA	BCA	BC2018133	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	PP
110	KARTIK PRATAP SINGH	BCA	BC2018153	2020-21	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	À	P	PP
111	ABHINAV KANNOJIA	BCA	BC2018002	2020-21	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	PP
112	AJAYPAL SINGH	BCA	BC2018004	2020-21	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	AP
113	MOHD ARSHAN IDREESI	BCA	BC2018019	2020-21	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	PP
114	ABHISHEK KUMAR	BCA	BC2018022	2020-21	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	PP
115	ANIKET SAXENA	BCA	BC2018029	2020-21	P	P	D	P	P	P	A	P	P	P	P	P	P	P	P	D	P	P	PP
116	DHEERENDRA YADUVANSHI	BCA	BC2018039	2021-22	P	P	P	P	P	P	P	P	P	P	A	P	P	0	P	A	P	P	PP
	M			1	1.0	11	11	11	11	П	11	11	14		111	1				111			

Head

Department of Computer Applications
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117	ANAND SINGH	BCA	BC2018053	2020-21	9	9	P	P	P	9	P	0	P	P	P	P	9	P	A	P	P	P	PT	P
118	MEENAL VARSHNEY	BCA	BC2018063	2020-21	P	9	9	P	P	P	P	P	P	P	P	P	P	P	P	P	B	P	P	9
119	KAVISH ARORA	BCA	BC2018091	2020-21	P	P	9	9	0	P	P	P	P	A	P	P	P	P	P	P	P	P	P	1
120	ANAYAH FATIMA	BCA	BC2018099	2020-21	1)	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	0
121	ARPIT GUPTA	BCA	BC2018110	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
122	ARJUN SINGH	BCA	BC2018122	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
123	BHAVESH SINGH	BCA	BC2018125	2020-21	P	A	P	P	P	P	0	P	P	P	P	P	P	P	P	P	P	P	P	P
124	ANAM KHAN	BCA	BC2018007	2020-21	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
125	DIWAKAR GUPTA	BCA	BC2018009	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
126	SHRAYANSH BHARDWAJ	BCA	BC2018135	2020-21	A	9	P	P	P	P	A	P	9	P	P	P	P	P	P	P	P	P	D	P
127	JAY KUMAR CHATURVEDI	BCA	BC2018136	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
128	SURAJ SINGH	BCA	BC2018139	2020-21	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A
129	SONU	BCA	BC2018047	2020-21	P	P	P	P	A	P	P	P	8	P	P	P	A	P	P	P	P	P	P	Y
130	SHUBHAM SAXENA	BCA	BC2018143	2020-21	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P
131	YASH GAHLOT	BCA	BC2018145	2020-21	P	P	In	P	P	P	P	P	P	P	P	P	P	P	P	A	P	10	P	P
132	ZAMIN HUSSAIN	BCA	BC2018150	2020-21	P	P	8	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
133	VEDANSH KALYAN CHADDHA	BCA	BC2018151	2020-21	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
134	YASH KHURANA	BCA	BC2018046	2020-21	1	P	9	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
135	VISHAL SHARMA	BCA	BCSS2018013	2020-21	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
No	of Students Bress	int	7		12	1 12	1 171	130	12	127	121	12	5 122	12	127	12	1 122	- 12	1 12	3 12:	12	2 12	121	- 12

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	(4-2)				7	ura		No	hrs		_	->	-			_ 1	0,	-	La					
S.No	Name	Course	Student ID	Year	18	19		12-	24	25	26	72	1	2	3	11	7	R	bei	1		1.		T,
1	SHIV OM GUPTA	B.Sc(H)CS	BCSS2018016	2020-21	P	P	P	P	P	P	P	P	P	P	D	P	P	N	D	10 D	<i>p</i>	14 D	P	1/
2	RAKESH NAGILA	B.Sc(H)CS	BCSS2018021	2020-21	P	P	P	P	A	P	P	D	D	P	0	A	P	P	P	P	P	1	+	1
3	SHASHANK SAXENA	B.Sc(H)CS	BCSS2018009	2020-21	P	P	P	P	P	P	A	P	P	P	9	P	P	1	D	1/	P	P	P	1
4	AASTHA BAJPAI	B.Se(H)CS	BCSS2018020	2020-21	A	P	P	P	P	P	P	P	P	P	A	P	D	P	P	P	P	1	P	1
5	MOHD TARIQ RAZA	B.Se(H)CS	BCSS2018026	2020-21	P	P	P	A	P	p	P	P	P	P	P	P	P	P	A	P	p	D	P	1
6	MONIKA SINGH	B.Sc(H)CS	BCSS2018030	2020-21	P	A	P	P	p	P	p	P	A	P	P	P	P	P	P	P	A	D	D	1
7	LAKSHMI MAURYA	B.Sc(H)CS	BCSS2018032	2020-21	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	p	A	1
8	KM ANSHIKA KANCHAN	B.Sc(H)CS	BCSS2018034	2020-21	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	p	p	D	10	t
9	SURBHI SINGH	B.Sc(H)CS	BCSS2018035	2020-21	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	1
10	KM PANKHURI GUPTA	B.Sc(H)CŜ	BC5S2018010	2020-21	P	P	P	P	P	P	A	P	P	P	p	P	A	P	P	P	P	P	P	2
11	PAKHI GUPTA	B.Sc(H)CS	BCSS2018023	2020-21	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P
12	FAIZAN RASOOL	B.Sc(H)CS	BCSS2018025	2020-21	P	P	P	P	P	p	p	P	A	P	P	P	P	P	P	P	A	P	P	P
13	MUSTAFA ISRAR	B.Sc(H)CS	BCSS2018028	2020-21	A	P	P	P	p	P	p	P	P	A	P	P	P	P	P	P	P	A	D	P
14	KAMAL GANGWAR	B.Sc(H)CS	BCSS2018031	2020-21	P	P	P	P	A	P	p	P	P	P	P	P	A	P	P	P	P	P	P	D
15	RAMANDEEP KAUR	B.Sc(H)CS	BSRA2018032	2020-21	P	A	P	p	P	P	P	P	P	P	P	P	P	A	P	p	P	D	P	D
16	JITIN KUMAR SINGH	B.Sc(H)CS	BCSS2018003	2020-21	P	P	P	9	P	A	P	P	P	P	P	A	P	P	P	p	P	P	P	A
17	SANJEEV KUMAR	B.Sc(H)CS	BCSS2018004	2020-21	P	P	p	P	P	P	P	A	P	P	P	P	p	P	A	P	p	P	P	P
18	MANEE SEJWAR	B.Sc(H)CS	BCSS2018005	2020-21	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	p	P
19	SONAM GANDHI	B.Sc(H)CS	BCSS2018006	2020-21	P	P	A	P	P	P	P	P	p	A	p	P	P	P	P	P	P	P	A	P
20	ANUJ SRIVASTAVA	B.Sc(H)CS	BCSS2018007	2020-21	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
21	SHIVAM TRIVEDI	B.Se(H)CS	BCSS2018008	2020-21	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
22	SURAJ SINGH	B.Se(H)CS	BCSS2018014	2020-21	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	D
23	VAIBHAV PARASHAR	B.Se(H)CS	BCSS2018017	2020-21	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P
	SHIVANI MAURYA	B.Sc(H)CS	BCSS2018018	2020-21	P	P	P	P	P	P	A	P	P	P	p	P	P	P	A	P	p	P	P	P
25	JEESHAN AII	B.Sc(H)CS	BCSS2018024	2020-21	P	A	P	P	P	P	P	A	Ρ	P	P	9	P	P	P	P	A	P	P	P
26	AADIL KHAN	B.Sc(H)CS	BCSS2018027	2020-21	P	P	P	P	A	P	P	PI	2	P	P	P	P	P	P	P	P	A	P	P
27	ABHISHEK VERMA	B.Sc(H)CS	BCS52018029	2020-21	P	P	A	P	P	P	P	PI	D	A	P	P	P	P	P	P	P	P	P	A
	GAURAV SINGH		BCSS2018033		P	P	P	P	P	P	P	P	4	P	P	P	P	P	P	P	P	P	A	P
200	SARANSH MISHRA		BCSS2018037		P	P	P	A		-				P	A.	P	P	P	P	P	P	P	P	P
	KUSHAGRA VAISH		BCSS2018039		P	P	P	P	P	A	P	P 1	1	PI	2	P	P	P	P	A	P	PA	P	P
	HASSAN MOHD ANSARI		BCSS2018040		A	P	P		P			1			P	P	A	P	2	PI	P	P	P	P
	PARTH RAJ SINGH DEOPA		BCSS2018002		-	P	P	1 1				P		- 1	2			P	A)	PA	0	P	P	P
	AAZAD HUSAIN		BCSS2018011	STATE OF THE PARTY.	P	P	-	P						PF	1	4 7	7	P	PS	P	D ,	PI		P
	SUSHEEL PRAJAPATI		BCSS2018022	20000000	-	P	P	P			P	A 7	1	P 1	2	PI	2	P	P	PI	PI	PA	7/	2
	RISHAV MISHRA		BCSS2018038			P	7		7	P	9 1	7	7	A 3	2	P	P	P		PI	PI	0 1	P 7	2
36	SHEKHAR TRIXEDI	B.Sc(H)CS	BCSS2018042	2020-21	P	P	P	P	P	P	D ;	PP	7	PI	0 3	9 1	P	P	P	P	PI	P	2/	7

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		Tan unce	DCD 4 2018003	2020-21	D	10	D	D	D	p	D	P	A	P	P	P	P	P	A	P	P	P	P	P
17	AJAY DUBEY	B.Sc(H)CS	BSKAZOTOGOS		1	-		5	0	D	0	0	0	P	A	P	P	D	Λ	P	P	P	A	P
18	AKSHAY CHAUHAN	B.Sc(H)CS	BCSS2018036	2020-21	A	P	A	P	Y	I.	r	P	1	1	1	1	1		77		-	5	0	0
38	Andres		ncccaniente	2020-21	D	A	D	P	2	D	A	P	P	P	P	A	PI	P	P	PI	A	P	4	P
19	CHHAVA GANGWAR	B.Sc(H)CS	BC852018017	2020-21	r	n	/	1		, A	1	10	10	A	0	0	Δ	10	P	P	D	1	P	P
201	A AMERICA	B.Sc(H)CS	BCSS2018041	2020-21	P	P	P	P	P	A	17	IP	IP	M	Y	1	1	1	1		1	1	/_	1
10	LATA MISHRA	The Addition of the Addition o		10000000	D	0	Λ	D	1	0	2	A	P	P	P	D	P	14	P	P	P	18	P	P
11	RAJDEEP KAUR	B.Sc(H)CS	BSRA2018033	2020-21	1	P	M	I	11	1	1	1/1	1	1	10	0-	-	-	00	30	27	21	2/	2
10	d chida	1115	Presen	+	37	37	36	37	125	136	36	36	136	136	36	13	36	136	10	fer	41	16	16	150

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Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar Invertis University Bareilly R



CERTIFICATE OF VALUE ADDED COURSE

Department of Computer Applications  Septists of Computer Applications	Head of the Department	during 18 November	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	or successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
Registrar Invertis University	Course Coordinator	18 November 2020- 16 December 2020	OMPUTER APPLICATIONS	YTHON	ue added course		Ms. VISHAL KUMAR SAINI
A	ordinator				+		Z

Faculty of Campular Applications

Faculty of Computer Applications Invertis University, Bareilly (UP) Dean Academics



CERTIFICATE OF VALUE ADDED COURSE .

Head of the Department  Head  Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)	for successfully completing a value added course  MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	This Certificate is awarded to Mr./Ms.
Registrar University Dean Academics Annications	npleting a value added course ING WITH PYTHON  nt of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	Ms. RITIK SAXENA III SEMESTER

Faculty of Computer Applications Invertis University, Bareilly (U.S.)



CERTIFICATE OF VALUE ADDED COURSE

Department of Computer Applications Faculty of Computer Applications	Head of the Department	during 18 Noveml	offered by Department of COMPUTER APPLICAT	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.	
Rogistras university		18 November 2020- 16 December 202	COMPUTER APPI	I PYTHON	value added course _			
7	Course Coordinator	er 2020	ICATIONS			III SEMESTER	GURPREET KAUR	

Faculty of Computer Applications Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

	Department of Computer Applications Invertis University, Bareilly (UP)  Registrar Applications Invertis University, Bareilly (UP)	Head of the Department	uring 18 November 2020	fered by Department of COMPUTER APPLICATIONS	ACHINE LEARNING WITH PYTHON	r successfully completing a value added course	his Certificate is awarded to Mr./Ms.  f ProgramBCAYear/Semester	
CHARLE University Baraine (UP	niversity	Course Coordinator	18 November 2020- 16 December 2020	UTER APPLICATIONS	ON	ded_course	III SEMESTER	



CERTIFICATE OF VALUE ADDED COUR  CERTIFICATE OF VALUE ADDED COUR  This Certificate is awarded to Mr./Ms.  The Program BCA Year/Semester  Or successfully completing a value added course  MACHINE LEARNING WITH PYTHON  Iffered by Department of COMPUTER APPLICATION  Head  Department of Computer Applications Faculty of Computer Appli
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CERTIFICATE OF VALUE ADDED COURSE

Department of Computer Applications Faculty of Computer Applications	Head of the Department	during 18 Noveml	offered by Department of COMPUTER APPLIC	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program_BCA_Year/Semester	This Certificate is awarded to Mr./Ms.
Registrat university		18 November 2020- 16 December	COMPUTER APPLIC	I PYTHON	value added course		
2	Course Coordinator	2020	CATIONS			MESTER	AREEB AHMAD

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Faculty of Computer Applications Invertis University, Bareilly (UP)

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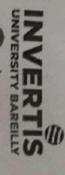


### CERTIFICATE OF VALUE ADDED COURSE

Head of the Department Head of the Department Head of Computer Applications Faculty of Computer Applications Faculty of Computer Applications	This Certificate is awarded to Mr./Ms.  of Program BCA Year/Semester  for successfully completing a value added  MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTI  furing 18 November 2020-16
artment  Applications  Applications  Liveria University	De Co
Course Coordinator	III SEMESTER  urse  APPLICATIONS  cember 2020

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M of the D	during 18 November 2020	MACHINE LEARNING WITH LINES  Officed by Department of COMPUTER APPLICATIONS	for successfully completing a value added course	of Program BCA Year/Semester .	This Certificate is awarded to Mr./Ms.
Course Coordinator	18 November 2020- 16 December 2020	PUTER APPLICATIONS	dded course		ADITYA VARSHNEY

Head of the Department

Faculty of Computer Applications

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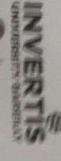


CERTIFICATE OF VALUE ADDED COURSE

Department of Computer Applications	Head of the Department	during	offered by Departmen	for successfully con	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
Head Requestral Requestral University		18 November 2020- 16 December 2020	offered by Denartment of COMPUTER APPLICATIONS	for successfully completing a value added course	Year/Semester	arded to Mr./Ms.
VOISINY	Co	December 2020	R APPLICATIONS	course	III SEMESTER	AKASH PAL
3	urse Coordinator	1				

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Department of Computer Applications
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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	of Program BCA Year/Semester of Program BCA Year/Semester for successfully completing a value added course MACHINE LEARNING WITH PYTHON offered by Department of COMPUTER APPLICATI 18 November 2020- 16 December 2020	Mar
Course Coordinator	Year/Semester  Year/Semester  III SEMESTER  Inpleting a value added course  ING WITH PYTHON  Int of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	KESHAV SINGH

Registrar Invertis University



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	KM AYUSHI SINGH
of Program RCA Year/Semester _	III SEMESTER
for successfully completing a value add	ded course
THE PARTICION OF THE PARTIES	
cc 1 by Donortment of COMP	UIER AFFEIGATIONS
during 18 November 2020-	- 16 December 2020
auring — AM	a San Lington
	Course Coordinator

Head of the Department

Head **Department of Computer Applications** Faculty of Computer Applications Invertis University, Bareilly ##P

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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2020- 16 December 200	offered by Department of COMPUTER APPLICA	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course		This Certificate is awarded to Mr./Ms. G	
Course Coordinator	cember 2020	APPLICATIONS		urse	III SEMESTER	GAURAV RATHAUR	

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Head Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)	Head of the Department	fully completin  LEARNING W  Department of	This Certificate is awarded to Mr./Ms.	CERTIFICA	INVER	
	18 November 2020- 16 December 2020  Co	or successfully completing a value added course  AACHINE LEARNING WITH PYTHON  Greed by Department of COMPUTER APPLICAT	to Mr./Ms/Semester	CERTIFICATE OF VALUE ADDED COURSE	INVERTIS UNIVERSIT	
Registrar Registrar University	December 2020	ER APPLICAT	AYUSHI TR	ADDED COURSE	VERSIT	
Dean Academics Faculty of Computer Applications Invertis University, Bareilly (UP)	ourse/Coordinator	IONS	TER TER		Y	
~ 是智川					4	



### CERTIFICATE OF VALUE ADDED COURSE

Department of Computer Applications Faculty of Computer Applications Inversity, Bareilly (UP)	Head of the Department	ffered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	or successfully completing a value added course	his Certificate is awarded to Mr./Ms.
Registrar university Inverted University  Bearsity  Dean Academius  Dean Academius	Course Coordinator	nt of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	col	r./Ms. AMAN KUMAR



partment  its: Applications  Receilly (UF)	This Certificate is awarded to Mr./Ms. AMIT KUMAR G. of Program BCA Year/Semester or successfully completing a value added course MACHINE LEARNING WITH PYTHON COMPUTER APPLICATION offered by Department of COMPUTER APPLICATION 18 November 2020- 16 December 2020	INVERTIS UNIVERSIT  CERTIFICATE OF VALUE ADDED COURSE
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Bepartment of Computer Applications Faculty of Computer Applications	Head of the Department	tered by Department of Control of Except 18 November 2020- 16 December 2020	ACHINE LEARNING WITH PYTHON	Program BCA Year/Semester III	nis Certificate is awarded to Mr./Ms.
Redistrar Invertis University	Course Coord	18 November 2020- 16 December 2020	PYTHON APPLICATIONS	ester III SEMESTER	Ir./Ms. ANKIT KUMAR MISHRA
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Invertis University, Bareilly (UP)

Faculty of Computer Applications Invertis University, Bareilly (UP)

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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	This Certificate is awarded to Mr./Ms.  GAURI RASTOG THE PROGRAM  GAURI RASTOG III SEMESTER III SEMESTER OF Successfully completing a value added course OF SUCCESSFULLY COMPLETE APPLICATIONS OF SUCCESSFULLY COMPUTER APPLIC
Course Coordinator	GAURI RASTOGI III SEMESTER d course N TER APPLICATIONS 16 December 2020

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Faculty of Computer Applications
Invertis University, Bareilly (UP)

Department of Computer Applications

Faculty of Computer Applications
Invertis University, Bareilly (UD)



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2020- 16 December 202	offered by Department of COMPUTER APPLICAT	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program_BCA_Year/Semester	This Certificate is awarded to Mr./Ms.
Course Coordinator	December 2020	RAPPLICATIONS		course	III SEMESTER	ANITA YADAV

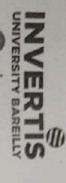
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Department of Computer Applications  Computer Applications	Head of the Department	his Certificate is awarded to Mr./Ms.  [Program BCA Year/Semester   III SEMESTIFE    Program BCA Year/Semester	
Registrar University	Course Coordinator	varded to Mr./Ms.  Year/Semester  Near/Semester  III SEMESTER  ING WITH PYTHON  ING WITH PYTHON  COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	

Faculty of Computer Applications Invertis University, Bareilly (UP)

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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	offered by Department of 18 November 2020- 16 December 2020	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Cortificate is awarded to Mr./Ms.
Course Coordinator	December 2020	R APPLICATIONS	course	III SEMESTER	AMAN KUMAR

Department of Computer Applications Faculty of Computer Applications

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Faculty of Computer Applications Invertis University, Barelly (UP)

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Invertis University, Bareilly IUP



CERTIFICATE OF VALUE ADDED COURSE

Head of the D	during 18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
Course Coordinator	- 16 December 2020	UTER APPLICATIONS	ON	ded course	III SEMESTER	ADITYA KUMAR

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Faculty of Computer Applications Invertis University, Bareilly (UP)

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This Certificate is awarded to Mr./Ms.  III SEMEST of Program BCA Year/Semester of Program BCA Year/Semester for successfully completing a value added course MACHINE LEARNING WITH PYTHON MACHINE LEARNING WITH PYTHON Offered by Department of Computer Applications Fearthy of Computer Applications Fearthy of Computer Applications Fearthy of Computer Applications Fearthy the Lowersty, Bareilly the Bareilly Bareilly	CERTIFICATE OF VALUE ADDED COURSE
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Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)	Head of the Department	during	offered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	for successfully completing a value added course	This Certificate is awarded to Mr./Ms.  of Program BCA Year/Semester
Bareilly Dean Academics	Redistrar University	Course Coordinator	int of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	YTHON	Ms. ESHANT VERMA  III SEMESTER



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Faculty of Computer Applications
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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2020- 16 December 202	offered by Department of COMPUTER APPLICAT	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms. DEVESH RAGHUVANSHI	
Course Coordinator	ecember 2020	RAPPLICATIONS		ourse	III SEMESTER	VESH RAGHUVANSHI	

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Head of the Department

Department of Computer Applications

Registrar Invertis University

Course/Coordinator

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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2020- 16 December	offered by Department of COMPUTER APPLI	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.	
Course Coordinator	16 December 2020	JTER APPLICATIONS	N	ed course	III SEMESTER	AJAY KUMAR	

Head of the Department

Department of Conjuster Applications Faculty at Computer Applications CHARTIS CLAVELSTY, Barally (UP) +

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CERTIFICATE OF VALUE ADDED COURSE

Head Department of Computer Applications	Head of the Department	during 18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester _	This Certificate is awarded to Mr./Ms.	
Invertis University	Course Coordinator	- 16 December 2020	UTER APPLICATIONS	ON	ded course	III SEMESTER	ANUBHAV KHARE	

Department of Computer Applications Faculty of Computer Applications

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CERTIFICATE OF VALUE ADDED COURSE

Department of Computer Applications	Head of the Department	m	during 18 November	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.	
Invertis University	Cc Cc		18 November 2020- 16 December 2020	COMPUTER APPLICAT	PYTHON	added con	ester III SEMESTER	1r./Ms. AKASH VERMA	
K	Course Coordinator	Ex.	0	SNOL			TER	VERMA	

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University, Barailly (UP)	Head of the Department Head Department of Computer Applications Faculty of Computer Applications:	luring 18 November	or successfully completing a value added course  MACHINE LEARNING WITH PYTHON  Offered by Department of COMPUTER APPLICATION  OFFICE OF THE PYTHON COMPUTER APPLICATION  OFFI COMPUTER APPLICATION  O	This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester	CERTIFICATE OF V	INVERTIS
Dean Academics  Faculty of Computer Applications  Invertis University, Bareilly (UP)	Redistrar Inversity	18 November 2020- 16 December 2020  Course Coordinator	YTHON OMPUTER APPLICATIONS	Ms. AKASH SAHAI er III SEMESTER	CERTIFICATE OF VALUE ADDED COURSE	INVERTISUNIVERSITY



Department of Computer Applications Faculty of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)	Head of the Department Cou	for successfully completing a value added course  MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPLICATIONS	This Certificate is awarded to Mr./Ms.  of Program BCA Year/Semester	CERTIFICATE OF VALUE ADDED COURSE	INVERTIS UNIVERS	ERTIS INTY BAREILLY
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Head of the Department Course Coordinato	luring 18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester III SEMESTER	This Certificate is awarded to Mr./Ms. ABHISHEK SHARMA	The second secon
rdinator		-			-		

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

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	Department of Computer Applications Invertis University	Head of the Department Course Coordinator	luring 18 November 2020- 16 December 2020	MACHINE LEARNING WITH PYTHON  Grantment of COMPUTER APPLICATIONS	or successfully completing a value added course	This Certificate is awarded to Mr./Ms. APEKSHA VERMA		CERTIFICATE OF VALUE ADDED COURSE	INVERTIS UNIVERSITY	ERTIS PRITY BAREILLY
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Head of the Department	offered by Department of Covin City of the Country	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	Inis Certificate is awarded to remittee: —	The contract is amorded to Mr Ms
Course Coordinator	December 2020	FR APPLICATIONS	course	III SEMESTER	MANAV SHARMA

Department of Computer Applications

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CERTIFICATE OF VALUE ADDED COURSE

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Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

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Linvards University of Computer Applications Faculty of Computer Applications Inversity Barelly IUP	Course Coordinator	in of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	ANMOL DIXIT III SEMESTER	INIVERSITY LUE ADDED COURSE



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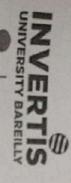
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Head of the Department
Head
Department of Computer Applications

Department of Computer Applications
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Invertis University, Bareilly (UP)

Course Coordinator

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Faculty of Computer Applications
Invertis University, Bareilly (UF)



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department  Head  Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly Hupi	during 18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.	
Iversity Course Coordinator  Been Academics  Been Academics  Formputer Applications	December 2020	ER APPLICATIONS		course	III SEMESTER	AJAY	



Head of the Department Head of the Department Head of the Department Head Separtment of Computer Applications Invaria University Establish III.	This Certificate is awarded to Mr./Ms. ANKUR KUMAR SIN of Program BCA Year/Semester III SEMESTER for successfully completing a value added course MACHINE LEARNING WITH PYTHON offered by Department of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	INVERTIS  INVERTIS  CERTIFICATE OF
Course Coordinator  Residentes University  Invertes University  Frankly of Continues Applications  Frankly of Continues A	varded to Mr./Ms. ANKUR KUMAR SINGH Year/Semester III SEMESTER  ppleting a value added course NG WITH PYTHON  nt of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	INVERTIS UNIVERSITY  CERTIFICATE OF VALUE ADDED COURSE



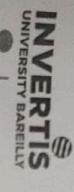
Department of Computer Applications Faculty of Computer Applications Lovertis University, Bareilly (UP)  Bareilly   Head of the Department Course Coordinator	offered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	of Program BCA Year/Semester III SEMESTER  for successfully completing a value added course	This Certificate is awarded to Mr./Ms. AKSHAT SAXENA	CERTIFICATE OF VALUE ADDED COURSE	INVERTISUNIVERSITY	RSITY BAREILLY	
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Faculty of Computer Applications Invertis University, Bareilly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

Head of the Department  Head  Department of Computer Applications  Faculty of Computer Applications  Invertis University, Bareilly (UP)	This Certificate is awarded to Mr./Ms. KM NIDHI SAXEN of Program BCA Year/Semester III SEMESTER for successfully completing a value added course MACHINE LEARNING WITH PYTHON offered by Department of COMPUTER APPLICATIONS during 18 November 2020- 16 December 2020
Course Coordinator  Registral  Re	warded to Mr./Ms. KM NIDHI SAXENA Year/Semester III SEMESTER mpleting a value added course ING WITH PYTHON ING WITH PYTHON ONE COMPUTER APPLICATIONS 18 November 2020- 16 December 2020



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	luring 18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program_BCA_Year/Semester	This Certificate is awarded to Mr./Ms.	
Course Coordinator	- 16 December 2020	UTER APPLICATIONS	ON	ded course	III SEMESTER	ANIKET SINGH	

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

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Head of the Department  Head  Department of Computer Applications  Faculty of Computer Applications  Head  Department of Computer Applications  Faculty of Computer Applications  Hovertis University, Bareilly (UP)	This Certificate is awarded to Mr./Ms. DIVYANSHU SHUKI of Program BCA Year/Semester for successfully completing a value added course MACHINE LEARNING WITH PYTHON offered by Department of COMPUTER APPLICATIONS 18 November 2020-16 December 2020 Course Cour	CERTIFICATE OF VALUE ADDED COURSE
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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department Head Department of Computer Applications	This Certificate is awarded to Mr./Ms. ARSHA of Program BCA Year/Semester III SEM for successfully completing a value added course MACHINE LEARNING WITH PYTHON offered by Department of COMPUTER APPLIC luring 18 November 2020- 16 December 2	
Course Coordinator  Rasgistrat  Invertis University	Year/Semester Year/Semester III SEMESTER  pleting a value added course ING WITH PYTHON ING WITH PYTHON ING COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	

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nator	This Certificate is awarded to Mr./Ms.  Of Program  BCA  Year/Semester  For successfully completing a value added course  MACHINE LEARNING WITH PYTHON  Offered by Department of  18 November 2020- 16 December 2020  Head of the Department  Course  Course  Course  Course  Course
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Faculty of Computer Applications Invertis University, Bareilly (UP) Dean Academics

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Head of the Department  Head  Department of Computer Applications  Faculty of Computer Applications  Barelly  Barelly  Barelly	This Certificate is awarded to Mr./Ms. AISHWARYA GUPTA of Program BCA Year/Semester III SEMESTER for successfully completing a value added course MACHINE LEARNING WITH PYTHON COMPUTER APPLICATIONS offered by Department of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	CERTIFICATE OF VALUE ADDED COURSE
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Department of Computer Applications Faculty of Computer Applications Inversity University, Bareilly (UP)

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	18 November 2020- 16 December 2020	COMPUTER APPLICATIONS	Z	ed course	III SEMESTER	HARSH SAXENA
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Head of the Department

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Department of Computer Applications Faculty of Computer Applications favorities University, Barelly (199)

Course Coordinator

Dean Academics Faculty of Computer Applications Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

offered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020  Head of the Department  Course Coordinator	MACHINE LEARNING WITH PYTHON	This Certificate is awarded to Mr./Ms. MOHAMMAD FIROJ of Program BCA Year/Semester III SEMESTER
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Faculty of Computer Applications Invertis University, Bareilly (UP)

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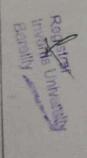
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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department

Department of Computer Applications Faculty of Computer Applications Inversity Barelly (UF)



Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

M. The state of th	during 18 November 2020- 16 December	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
Course Coordinator	December 2020	RAPPLICATIONS		course	III SEMESTER	UVAIS SAIFI

Head of the Department

Registrar Invertis University Bareilly

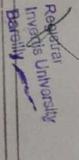


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Head of the Department

Department of Computer Applications Invertis University, Bareilly (LJP) Faculty of Computer Applications



Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department Head Department of Computer Applications	This Certificate is awarded to Mr./Ms.  III SEMESTE  f Program BCA Year/Semester  or successfully completing a value added course  ACHINE LEARNING WITH PYTHON  TACHINE LEARNING WITH PYTHON  ffered by Department of COMPUTER APPLICATION  18 November 2020- 16 December 2020
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Faculty of Computer Applications Invertis University, Bareilly (199)

Faculty of Computer Applications Invertis University, Bareilly (UP)

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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 No	ffered by Department of	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
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Course Coordinator	2020	ATIONS			IESTER	R SHARMA

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This Certificate is awarded to Mr./Ms of Program BCA Year/Semester for successfully completing a value a MACHINE LEARNING WITH PYT offered by Department of COM 18 November 202	This Certificate is awarded to Mr./Ms. MUNENDRA PA  of Program BCA Year/Semester III SEMESTER  for successfully completing a value added course  MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	during	d by Departm	HINE LEAR	accessfully co	ogram BCA	Certificate is
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Head of the Department

Department of Computer Applications Invertis University, Bareilly (UP) Faculty of Computer Applications

Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

TO TABLE TO	18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course.	of Program_BCA Year/Semester III SEMESTER	This Certificate is awarded to Mr./Ms. SAKSHI GUPTA	
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Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Barelly 1979

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Course Coordinator

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Faculty of Computer Applications
Invertis University, Bareilly (UP)

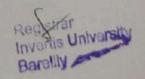


CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester			PRANJAL SRIVASTAVA III SEMESTER		
for successfu	lly completing	a value ado	ded course		
THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			UTER APPLICATIONS		
during			16 December 2020		

Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)



Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to M	Ir./Ms. SARANSH BHARDWAJ
of Program BCA Year/Seme	ester <u>III SEMESTER</u>
for successfully completing a v	value added course
MACHINE LEARNING WITH	PYTHON
offered by Department of	COMPUTER APPLICATIONS
during 18 Novemb	er 2020- 16 December 2020
N.	
Head of the Department	Registrative Course Coordinator

Inversity University

Department of Computer Applications Faculty of Computer Applications Invertis University, Barelity (US)

Dean Academics Faculty of Computer Applications Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./	Ms. SYED AREEB RAZA
of Dragger RCA Year/Semeste	er <u>III Selviester</u>
for successfully completing a value	ne added course
	VIEIV
during 18 November	2020- 16 December 2020
during 18 November	2020 1020
M	Course Coordinator
Head of the Department	Phototone

Head Department of Computer Applications Faculty of Computer Applications

Invertis University, Bareilly IUPI

Registrar Invertis University Bareilly - -

Faculty of Computer Applications Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certifica	te is awarded t	o Mr./Ms.	PANKAJ KUMAR
of Program	BCA Year/S	emester	III SEMESTER
for successful	ly completing	a value added	d course
	EARNING WI		
offered by De	partment of	COMPUT	TER APPLICATIONS
during	All the second s		6 December 2020

Head of the Department

Department of Contents Applications
Faculty of Computer Applications
Lovertic University Benefity (1991)

Registrar Inversity Barelly Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

18 November 2020- 16 December 2020	COMPUTER APPLICATIONS	MACHINE LEARNING WITH BYTHICK	for successfully completing a reliant to the SEMESTER	of Program RCA Verescentificate is awarded to Mr./Ms. SHAURYA PRATAP SING
				INGH

Head of the Department

Reparament of Computer Applications
Faculty of Computer Applications
Faculty of Computer Applications
Faculty (UP)

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)

UNIVERSITY BAREILLY

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CERTIFICATE OF VALUE ADDED COURSE

offered by Department of MACHINE LEARNING WITH PYTHON for successfully completing a value added course of Program\_BCA\_Year/Semester This Certificate is awarded to Mr./Ms. 18 November 2020- 16 December 2020 COMPUTER APPLICATIONS SUDARSHAN PANDEY III SEMESTER

Head of the Department

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Course Coordinator

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CERTIFICATE OF VALUE ADDED COURSE

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This Certificate is awarded to Mr./Ms.  of Program BCA Year/Semester  for successfully completing a value added course MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPI  18 November 2020- 16 December
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Mr./No Mr
Mr./Ms. SYED MOHI mester III SEMEST value added course H PYTHON COMPUTER APPLICATIO ber 2020- 16 December 2020
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Head of the Department

Department of Computer Applications
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Invertis University, Bareilly (UP)

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Course Coordinator

Dean Academics

Faculty of Computer Applications Invertis University, Bareilly (UP)



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Course Coordinator

Invertis University

Faculty of Computer Applications Inverte University, Barailly (UP)



CERTIFICATE OF VALUE ADDED COURSE

Head Department of Computer Applications Faculty of Computer Applications	Head of the Department	- gu	uring 18 Noven	Tiered by Department of COMPUTER APPLICAT	MACHINE LEARNING WITH PYTHON	or successiully completing a value added course	for mester bear/Semester	of Program BC A Walded II	This Certificate is awarded
Registrar University			18 November 2020- 16 December 202	COMPUTER APPLICA	'H PYTHON	00	mester III SEMES	Mr./Ms. SHIVAM KUMAR VERM	
A.	Course Coordinator			ATIONS			ESTER	MAR VERMA	

Department of Computer Applications Faculty of Computer Applications inverts University, Bareilly (UP)

Barelly

Faculty of Computer Applications Invertis University, Bareilly (UP)

Dean Academics

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## INVERTIS UNIVERSITY

CERTIFICATE OF VALUE ADDED COURSE

offered by Department of COMPUTER APPLICATIONS MACHINE LEARNING WITH PYTHON of Program BCA Year/Semester This Certificate is awarded to Mr./Ms. Head of the Department 18 November 2020- 16 December 2020 SHANTANU ARORA III SEMESTER

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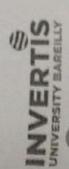
PRANAV KATIYAK III SEMESTER	ourse	R APPLICATIONS	ecember 2020	Coordinato
This Certificate is awarded to Mr./Ms.	for successfully completing a value added course	MACHINE LEARNING WITH PT THOM COMPUTER APPLICATIONS	18 November 2020- 16 December 2020	M
This Certifi	of Program for successful	MACHINE Gered by	during	

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly IUPI

Course Coordinator

Dean Academics and Feaculty of Computer Applications Invertis University, Bareilly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

KM PRIYA SHARMA COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Head of the Department

Department of Computer Applications Feculty of Computer Applications Invents University, Eartelly 1177

The Artis Lines

Course Coordinator

Faculty of Computer Application. Invertis University, Barelly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

RITIK KUMAR SAXENA COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

nvertis University Bareilly

Course Coordinator

-acuity of Computer Applications Invertis University, Bareilly (UP)



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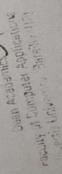
offered by Department of COMPUTER APPLICATIONS RASHI GUPTA III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Department of Computer Applications Faculty of Computer Applications Javertis University, Bareilly IUP!

Redistrar Invertis University Barellly

Course Coordinator





## CERTIFICATE OF VALUE ADDED COURSE

TAPASVI MISHRA offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course. MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Course Coordinator

Head of the Department

Dean Academications
Faculty of Computer Applications
Invertis University, Bareilly (UP)



## CERTIFICATE OF VALUE ADDED COURSE

Ms. PRATEEK SAXENA  in SEMESTER  ue added course	ent of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	Registrar University Course Coordinato Invertis University
This Certificate is awarded to Mr./Ms.  of Program  BCA Year/Semester  for successfully completing a value added course	by Departme	Head of the Department

Invertis University, Bareilly (UP) Faculty of Computer Applications Dean Academics

Bareilly

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly IUP.



## CERTIFICATE OF VALUE ADDED COURSE

ROHIT GUPTA offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Department of Computer Applications Faculty of Computer Applications Investig University, Barelly (UP)

Course Coordinator

Invertis University Bareilly

Registrar

Dean Acadehics Faculty of Computer Applications Invertis University, Barally (UP)



## CERTIFICATE OF VALUE ADDED COURSE

SHUBHAM GUPTA COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Course Coordinate

Redistrar

Head of the Department

Dean Academics
Faculty of Computer Applications
Invertis University, Barelly (UP)



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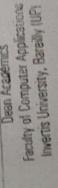
MOHD OSAMA offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

THOMS UNIXEED

Course Coordinator





## CERTIFICATE OF VALUE ADDED COURSE

VAISHNAVI KHANDELWAL III SEMESTER	Ided course	PUTER APPLICATIONS	18 November 2020- 10 December 2020	Course Coordinator
This Certificate is awarded to Mr./Ms. VAISHNAVI KHANDELWAL  of Program BCA Year/Semester III SEMESTER	for successfully completing a value added course	offered by Department of COMPUTER APPLICATIONS	during 18 November 2020	

Feculty of Computer Applications Invertis University, Baretty (UP)

Registrar Invertis University

Head of the Department

Bareilly

Department of Computer Applications Faculty of Computer Applications Inversity Bareitly (19F)

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## CERTIFICATE OF VALUE ADDED COURSE

SHAIFALI RASTOGI	III SEMESTER	ded course	WITH PYTHON COMPUTED ADDITIONS	ant of COMPUTER ALTERATION	TO DOCUMENT
This Certificate is awarded to Mr./Ms.	of Drown RCA Year/Semester	for successfully completing a value added course	MACHINE LEARNING WITH PYTHON	offered by Department of COMP	during 18 November 2020

Registrar Invertis University Ranally

Head of the Department

Course Coordinator

Dean Academics
Faculty of Computer Applications
Faculty of Computer Sarelly (UP)
Invertis University: Barelly (UP)



### CERTIFICATE OF VALUE ADDED COURSE

SHIVAM SINGH offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020- 16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester during

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

Course Coordinator Invertis University Bareilly

Registrar

Faculty of Computer Applications Invertis University, Bareilly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

VINAY KUMAR offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Department of Computer Applications Faculty of Computer Applications Inversity, Bereilly IUP)

Registrar Invertis University Bareilly

Course Coordinator

Dean Acedemics Faculty of Computer Applications Invertis University, Bareilly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

COMPUTER APPLICATIONS SUMIT PATEI III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Head of the Department Registrar Inversity Inversity Registrar

Course Coordinator

Faculty of Comparer Applications Invents University, Barelly IUP)



CERTIFICATE OF VALUE ADDED COURSE

SHUBHAM SAGAR COMPUTER APPLICATIONS H SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

Invertis University

Raistrai

Barelly

Course Coordinator

Dean Arademics Faculty of Computer Applications Invertis University, Bareilly 1UP?



### CERTIFICATE OF VALUE ADDED COURSE

RACHIT SHUKLA offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Department of Comparer Applications Faculty of Computer Applications taxestic University, Sarelly full

Invertis University

Course Coordinator

Faculty of Computer Applications Invertes University, Bareilly IUP



### CERTIFICATE OF VALUE ADDED COURSE

SONU KUMAR COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Course Coordinator

Registrar Invertis University Barollly

Head of the Department

Dean Academics Faculty of Computer Applications Invertis University, Bareilly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

PARAS VERMA offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Invertis University Bareilly --

Registrar

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly IUPI

Course Coordinator

Faculty of Computer Applications Invertis University, Bareilly (UP) Dean Academics

INVERTIS BAREILLY

## INVERTIS UNIVERSITY

#### CERTIFICATE OF VALUE ADDED COURSE

RANJOD SINGH COMPUTER APPLICATIONS III SEMESTER 18 November 2020- 16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

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Head of the Department
Head
Department of Computer Applications
Faculty of Computer Applications
invertis University, Barelly IUP!

Registrar Invertis University Bareilly

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bereilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

WAHID YAR KHAN COMPUTER APPLICATIONS III SEMESTER 18 November 2020- 16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Head of the Department

Invertis University Bareilly -

Registrar

Course Coordinator

Faculty of Competer Applications Invertis University, Bareilly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

RUCHI SAHAI offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

Registrar Invertity Invertity

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)

UNIVERSITY BAREILLY

## INVERTIS UNIVERSITY

#### CERTIFICATE OF VALUE ADDED COURSE

RAM KANT DIXIT COMPUTER APPLICATIONS III SEMESTER 18 November 2020- 16 December 2020 for successfully completing a value added course\_ MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Head of the Department

Department of Computer Applications Faculty of Computer Applications HAVERTS UNIVERSITY, BETEILY IUP.

Invertis University Bareilly -

Registrar

Course Coordinator

Faculty of Computer Applications invertis University, Bareilly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

SACHIN SHAKYA COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course\_ MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester offered by Department of

Head of the Department

Course Coordinator Invertis University Bareilly -

Registral

EVENTS UNIVERSITY, BANKINY (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms. NAKSHATRA DEEP GANGWAR COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON of Program BCA Year/Semester offered by Department of

Head of the Department

Bareilly

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly IUP)



## CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms. SHUBHAM PRAKASH TOMAR offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON of Program BCA Year/Semester

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

Course-Coordinator

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Barelly ...

Faculty of Computer Applications faculty of Computer Applications (UP)



## CERTIFICATE OF VALUE ADDED COURSE

offered by Department of COMPUTER APPLICATIONS URUJ FATIMA III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Department of Computer Applications Feculty of Computer Applications Invertis University, Parent Indi

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Course Coordinator

lavertis University, Barelliy (UP) Fosuity of Configures Applications



CERTIFICATE OF VALUE ADDED COURSE

KM ANSHIKA GUPTA offered by Department of COMPUTER APPLICATIONS III SEMESTER 18 November 2020-16 December 2020 for successfully completing a value added course MACHINE LEARNING WITH PYTHON This Certificate is awarded to Mr./Ms. of Program BCA Year/Semester

Head of the Department

Registrar Invertis University Bareilly

Course Coordinator

Been Academics Faculty of Computer Applications Invertis University, Barelly (UP)



CERTIFICATE OF VALUE ADDED COLLEGE

Head of the Department  Head  Department of Computer Applications Faculty of Computer Applications Inverted University, Bernally (UP)	during 18 Novem	offered by Department of COMPUTER APPLICATION	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.		CENTE ICALE
Regustrar Invertis University Barrelly	18 November 2020- 16 December 2020	COMPUTER APPLIC	'H PYTHON	a value added course				CEIVILLICATE OF ANTOL WOLLD COOLSE
Course Coordinator	2020	ATIONS			IESTER	ACHARYA		ONJE .

Faculty of Computer Applications Inverts Bringsty, Barally (UP)



CERTIFICATE OF VALUE ADDED COURSE

of Program BCA Year/Semester III SEMESTER for successfully completing a value added course  MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020		M	
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	VIVEK KUMAR	ite is awarded to Mr./Ms.	This Certifica

Head of the Department

Department of Computer Applications
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Course Coordinator

Dean Académics
Faculty of Computer Applications
Invertis University, Bareilly IUP)



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 No	offered by Department of	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
	18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICATIONS	WITH PYTHON	ing a value added course		ed to Mr./Ms. SHIVANK SHARMA
Course Coordinator						A

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Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar



CERTIFICATE OF VALUE ADDED COURSE

And	18 November	offered by Department of COMPUTER APPLIC	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
	18 November 2020- 16 December 2020	OMPUTER APPLICATIONS	YTHON	ue added course	er III SEMESTER	Ms. VIRENDER SINGH

Head of the Department

Aggistrar

Bareilly -

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

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December	Dacamhar '	ER APPLIC		course	III SEM	SANJA
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Head of the Department

Department of Colorators Applications Faculty of Computer Applications inverte University Bereity (19)

Registrar

Course Coordinator

Faculty of Computer Applications Invertis University, Bareilly (LIP)

Dean Academics

Invertis University



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
Course Coordinator	18 November 2020- 16 December 2020	MPUTER APPLICATIONS	THON	e added course		Ms. VAISHNAVI GUPTA

Invertis University

Dean Academics Faculty of Computer Applications

Invertis University, Barelly (UP)



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18 November 202	offered by Department of COMPUTER APPLICA	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
18 November 2020- 16 December 2020	PUTER APPLICATION	ION	dded course	III SEMESTE	NIDHI DIXIT

Head of the Department

Head

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

> Aegistrar Invertis University Barellly

> > Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2020- 16 December 2020	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program RCA Vear/Semester	This Cartificate is awarded to Mr/Ms.
Course Coordinator	18 November 2020- 16 December 2020	HON  TOTTED ADDITIONS	added course	III SEME	ROHIT TYAGI

Department of Computer Applications

Invertis University

Barelly -

Dean Acadevilis
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar



Head of the Department Registrar Invertis University Bareilly Course Coordinator	MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPLICATIONS  luring 18 November 2020- 16 December 2020	This Certificate is awarded to Mr./Ms.  SURAJ KUMAR  of Program BCA Year/Semester  III SEMESTER  or successfully completing a value added course	CERTIFICATE OF VALUE ADDED COURSE	INVERTIS UNIVERSITY
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Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

during 18 Novembe	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
18 November 2020- 16 December 2020	OMPUTER APPLICATIONS	PYTHON	lue added course	III SEN	./Ms. TAUHID RAZA

Head of the Department

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar Invertis University Bareilly

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2020- 16 December 2020	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
Course Coordinator	16 December 2020	TER APPLICATIONS	00	Tow see Mile	ABHINAY SSAXENA

Department of Computer Applications

Registrar

Barelly -

Dean Acadeprics I Faculty of Computer Applications Invertis University, Bareilly (UP)

Faculty of Compute Applications



CERTIFICATE OF VALUE ADDED COURSE

18 Nov	by Department of_	MACHINE LEARNING WITH PYTHON	cessfully completin	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICA	TH PYTHON	for successfully completing a value added course	Semester III SEMESTER	
2020	SNOITA			TESTER	KARTIK PRATAP SINGH

Head of the Department

Hagistrar

Course Coordinator

Barelly -

Inverte University, Barelly (UP)

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CERTIFICATE OF VALUE ADDED COURSE

2.1	during 18 November 2020- 16 December 2	offered by Department of COMI	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.	
	1- 16 December 2020	COMPUTER APPLICATIONS	ON	lded course	III SEMESTER	ABHINAV KANNOJIA	

Head of the Department

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Barrelly (UP)

Registrar Invertis University Bareilly

Course Coordinator

Dean Académics

Faculty of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)



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Faculty of Computer Applications Invertis University, Bareilly (U.P. Dean Apademiss Department of Computer Application

Bareilly -



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	offered by Department of COMPUTER APPLICATIONS during 18 November 2020- 16 December 2020	MACHINE LEARNING WITH PYTHON	This Certificate is awarded to Mr./Ms. MOHD ARSHAN IDREESI of Program BCA Year/Semester III SEMESTER
Course Coordinator	18 November 2020- 16 December 2020	THON	MS. MOHD ARSHAN IDREESI III SEMESTER

Department of Computer Applications Faculty of Computer Applications Anyertis University, Bareilly (LLP)

Barelly Invertis University

Registrar

Invertis University, Bareilly (UP)

Faculty of Computer Applications Invertis University, Bareilly (UP)

Dean Academics



CERTIFICATE OF VALUE ADDED COURSE

and	during 18 Novemb	offered by Department of	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
	18 November 2020- 16 December 2020	COMPUTER APPLICATIONS	IPYTHON	value added course	lester III SEMESTER	Mr./Ms. ABHISHEK KUMAR

Head of the Department

Department of Computer Applications invertis University Receilly (Up)

Registrar Invertis University

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareiny (UP)



CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2020- 16 December 202	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.	
Course Coordinator	December 2020	RAPPLICATIONS		course	III SEMESTER	ANIKET SAXENA	

ILIARITA CITARALI

Faculty of Computer Applications Invertis University, Bareilly (UP)

Dean Academics

Invertis University

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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department  Head  Head  Gepartment of Computer Applications  Invertis University	during Suring	offered by Department of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	MACHINE LEARNING WITH PYTHON	added co	of Prooram RCA Year/Semester III	This Certificate is awarded to Mr./Ms. DHEERENDRA YADUVANSHI
A Comment	Course Proordinator	aber 2020			III SEMESTER	NDRA YADUVANSHI

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Head of the Department

Department of Computer Applications Faculty of Computer Applications INPUTS UNIVERSITY BETTING INTO

> Invertis University Course Coordinator

Rogistrar

Faculty of Computer Applications Invertis University, Bareilly (UP) Dean Academics



Course Coordinator	Head of the Department
	No.
December 2020	during 18 November 2020- 16 December 2020
ER APPLICATIONS	offered by Department of COMPUTER APPLICATIONS
	MACHINE LEARNING WITH PYTHON
1 course	for successfully completing a value added course_
III SEMESTER	of Program_BCA_Year/Semester
KAVISH ARORA	This Certificate is awarded to Mr./Ms.
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Faculty of Computer Applications
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CERTIFICATE OF VALUE ADDED-COURSE

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0	18 November 2020- 16 December 2020	COMPUTER APPLICATIONS	YTHON	ue added course	ter III SEMESTER	/Ms. ANAYAH FATIMA

Head of the Department

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar Invertis University Bareilly

Course Coordinator

Dean Abademics
Faculty of Computer Applications
Invertis University, Barrilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

Head Head	Head of the Department	M	during 18 Novem	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.	
Registrar	Course Coordinator		18 November 2020- 16 December 2020	COMPUTER APPLICATIONS	1 PYTHON	value added course		Mr./Ms. ARPIT GUPTA	

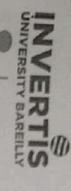
Department of Computer Applications

Invertis University Bareilly -

Faculty of Computer Applications Invertis University, Bareilly (UP)

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CERTIFICATE OF VALUE ADDED COURSE

Head of the Department	during 18 November 2020- 16 December	offered by Department of COMPUTER APPLICATIONS	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester _	This Certificate is awarded to Mr./Ms.	
Course Coordinator	)- 16 December 2020	UTER APPLICATIONS	ON	Ided course	III SEMESTER	ARJUN SINGH	

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

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Faculty of Computer Applications Invertis University, Bereilly (UP)

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CERTIFICATE OF VALUE ADDED COURSE

1	during 18 Nove	offered by Department of	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
	18 November 2020- 16 December 2020	COMPUTER APPLICATIONS	ITH PYTHON	a value added course	Semester III SEMESTER	to Mr./Ms. BHAVESH SING
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Head of the Department

Department of Computer Applications
Faculty of Computer Applications
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Registrar Invertis University Bareilly

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

and the same of th	during 18 November	MACHINE LEARNING WITH FITHER APPLICAT	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
Course Coordinator	18 November 2020- 16 December 2020	OMPUTER APPLICATIONS	lue added course	ster III SEMESTER	./Ms. ANAM KHAN

Head of the Department

Head

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

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#### CERTIFICATE OF VALUE ADDED COURSE

	MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	This Certificate is awarded to Mr./Ms. DIW of Program BCA Year/Semester III  for successfully completing a value added course
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nt -	ing WITH PYTHON  int of COMPUTER APPLICATI  18 November 2020- 16 December 2020	o Mr./Ms emester a value add
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Course	ICATIONS er 2020	DIWAKAR GUPTA III SEMESTER ourse
ourse Coordinator		TA

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Department of Computer Applications Faculty of Computer Applications Invertis University, Barellly (UP)

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Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

during 18 Novemb	offered by Department of COMPUTER APPLICATIONS	for successfully completing a value added course that the Learning with PYTHON	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms. SHRAYANSH BHAR
18 November 2020- 16 December 2020	COMPUTER APPLICATIONS	PYTHON PYTHON	ester III SEMESTER	Ir./Ms. SHRAYANSH BHARDWAJ

Head of the Department

Invertis University Bareilly

Faculty of Computer Applications Invertis University, Barelly (UP)

Registrar

Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

W Standard War	during 18 November 2020	offered by Department of COMPUTER APPLICATION	MACHINE LEARNING WITH PYTHON	for successfully completing a value added course	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms. JAY KUMAR CHA
Course Coordinator	18 November 2020- 16 December 2020	PUTER APPLICATIONS	ON	ided course	III SEMESTER	JAY KUMAR CHATURVEDI

Department of Computer Applications pagistrar Invertis University Barally .

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Head of the Department

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CERTIFICATE OF VALUE ADDED COURSE

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18 November 2020	ment of COMP	NING WITH PYTH	ompleting a value ad	Year/Semester	This Certificate is awarded to Mr./Ms.
- 16 December 2020	UTER APPLICATION	ON	ded course	III SEMESTER	SURAJ SINGH
	18 November 2020- 16 December 2020	offered by Department of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	MACHINE LEARNING WITH PYTHON offered by Department of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020	for successfully completing a value added course  MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPLICATIONS  18 November 2020- 16 December 2020	of Program BCA Year/Semester III SEMESTER for successfully completing a value added course MACHINE LEARNING WITH PYTHON offered by Department of COMPUTER APPLICATIONS 18 November 2020- 16 December 2020

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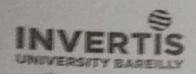
This Certificate is awarded to Mr./Ms.  of Program BCA Year/Semester III SEMESTER  for successfully completing a value added course  MACHINE LEARNING WITH PYTHON  offered by Department of COMPUTER APPLICATIONS  luring 18 November 2020- 16 December 2020  Course C	Mand of the D	luring 1	fered by Departmen	<b>IACHINE LEARNI</b>	or successfully con	of Program BCA Year/Semester	This Certificate is awarded to Mr./Ms.
		8 November 2020- 16 L	nt of COMPUTE	NG WITH PYTHON	pleting a value added c	Year/Semester	arded to Mr./Ms.

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Invertis University Barolly 4

Faculty of Computer Applications Invertis University, Barelly IUP!

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CERTIFICATE OF VALUE ADDED COURSE

III SEMESTER
course
ER APPLICATIONS
December 2020

Head of the Department

Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP) Invertis University

Course Coordinator

Dean Academics
Faculty of Computer Applications
Invertis University, Barelly (UP)



#### CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	YASH GAHLOT
of Program BCA Year/Semester _	III SEMESTER
for successfully completing a value add	ded course
MACHINE LEARNING WITH PYTHO	ON
offered by Department of COMP	UTER APPLICATIONS
during 18 November 2020-	- 16 December 2020
AM_	
V Company	Course Coordinator

Head of the Department

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Registrat Invertis University Barelly -

Dean Academics Faculty of Computer Applications inverte University, Baradle (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	ZAMIN HUSSAIN						
of Program BCA Year/Semester	III SEMESTER						
for successfully completing a value a	dded course						
MACHINE LEARNING WITH PYTH	HON						
offered by Department of COMPUTER APPLICATIONS							
during 18 November 2020- 16 December 2020							
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Head of the Department	Course Coordinator						

Registrar Invertis University Bareilly

Dean Academics
Faculty of Computer Applications
Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./M of Program BCA Year/Semester	s. VEDANSH KALYAN CHADDHA III SEMESTER					
for successfully completing a value  MACHINE LEARNING WITH PY	added course					
offered by Department of COM	MPUTER APPLICATIONS					
during 18 November 2020- 16 December 2020						
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Head of the Department

Department of Computer Applications
Faculty of Computer Applications
Inversity University, Barailly (UP)

Registrar Invertis University Bareilly Course Coordinator

Dean-Atademics Faculty of Computer Applications Invertis University, Barelly (ISA)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	YASH KHURANA
of Program BCA Year/Semester	III SEMESTER
for successfully completing a value added	l course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUT	ER APPLICATIONS
during 18 November 2020- 16	December 2020
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Head of the Department

Head

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Rogistral Invertis University Barelliy Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms	VISHAL SHARMA
of Program BCA Year/Semester	III SEMESTER
for successfully completing a value adde	d course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUT	TER APPLICATIONS
during 18 November 2020- 1	

Head of the Department

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrat Invertis University Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Cert	ificate is awarded to Mr./Ms	SHIV OM GUPTA
of Program	m B.Sc. (H) CS Year/Semester	III SEMESTER
for succes	ssfully completing a value add	ed course
MACHIN	E LEARNING WITH PYTHO	N
offered by	Department of COMPU	TER APPLICATIONS
during _	18 November 2020-	16 December 2020

Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UF)

Registrar Invertis University Bareilly Course Coordinator

Jean Academia.

Dean Academica



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	RAKESH NAGILA
of Program B.Sc. (H) CS Year/Semeste	er III SEMESTER
for successfully completing a value add	ded course
MACHINE LEARNING WITH PYTHO	
offered by Department of COMPI	UTER APPLICATIONS
during 18 November 2020-	16 December 2020

Head of the Department

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Barcilly IUPI

Registrar Invertis University Bareilly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	SHASHANK SAXENA
of Program B.Sc. (H) CS Year/Semeste	
for successfully completing a value add	
MACHINE LEARNING WITH PYTHO	ON
offered by Department of COMP	UTER APPLICATIONS
during 18 November 2020-	
DW.	
Head of the Department	Course Coordinator

Registrar Inverte University



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	AASTHA BAJPAI
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added of	course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUTE	R APPLICATIONS
during 18 November 2020- 16 I	December 2020
8	

Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
Invertis University, Barella, 1979

Registrar Invertis University Bareilly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awa	rded to Mr./Ms.	MOHD TARIQ RAZA
of Program B.Sc. (H)		III SEMESTER
for successfully comp	leting a value added G WITH PYTHON	d course
offered by Department	of COMPUT	TER APPLICATIONS
during 18	November 2020-10	6 December 2020

Head of the Department

Separament of Computer Applications
Faculty of Computer Applications
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Registrar -Invertis University Camilly Course Coordinator

Count Academics
Fracing of Companies Applications
(marries University, Benealth 1977)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	MONIKA SINGH
of Program B.Sc. (H) CS Year/Semester	er <u>III SEMESTER</u>
for successfully completing a value add	ded course
MACHINE LEARNING WITH PYTHO	ON
offered by Department of COMP	UTER APPLICATIONS
during 18 November 2020-	- 16 December 2020
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Head of the Department	Course Coordinator
Head of the Beparting	A
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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	LAKSHMI MAURYA
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added	course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUT	ER APPLICATIONS
during 18 November 2020- 16	December 2020

Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
thereis University, Barrier 1999

Registrar Invertis University Bareilly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms	KM ANSHIKA KANCHAN
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value adde	
MACHINE LEARNING WITH PYTHO	
offered by Department of COMPU	TER APPLICATIONS
during 18 November 2020- 1	16 December 2020

Head of the Department

Department of Los Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar Invertis University Barelly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	SURBHI SINGH
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added of	course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUTE	R APPLICATIONS
during 18 November 2020- 16 I	December 2020

Head of the Department

Head

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Barrelly (UR)

Pegratrar Invertis University a Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms	s. KM PANKHURI GUPTA
of Program B.Sc. (H) CS Year/Seme	ester III SEMESTER
for successfully completing a value	added course
MACHINE LEARNING WITH PYT	HON
offered by Department of COM	IPUTER APPLICATIONS
	20- 16 December 2020

Head of the Department

Department of Computer Application Faculty of Computer Applications Inverse Universely, Barelly 1997 Registrar Invertis University Barelly Course Coordinator

Cook Academics
Faculty of Computer Applications
Imperis Jemersey, Spreaks JUP)



CERTIFICATE OF VALUE ADDED COURSE

This Certific	ate is awarded to	o Mr./Ms.	PAKHI GUPTA
of Program_	B.Sc. (H) CS Y	ear/Semester	III SEMESTER
for successfu	ally completing	a value added of	course
	LEARNING WI		
offered by D	epartment of	COMPUTE	R APPLICATIONS
during 18 November 2020- 16 December 2020			

Head of the Department

Depriment of Computer Applications

Registrar Invertis University Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	FAIZAN RASOOL
of Program B.Sc. (H) CS Year/Semeste	er III SEMESTER
for successfully completing a value add	
MACHINE LEARNING WITH PYTHO	ON
offered by Department of COMPU	UTER APPLICATIONS
during 18 November 2020-	16 December 2020

Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Course Coordinator



#### CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	MUSTAFA ISRAR
of Program B.Sc. (H) CS Year/Semester _	III SEMESTER
for successfully completing a value added	course
MACHINE LEADNING WITH PYTHON	
offered by Department of COMPUTI	ER APPLICATIONS
during 18 November 2020- 16	December 2020
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Head of the Department

Head

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar Invertis University Bareilly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to M	r./Ms. KAMAL GANGWAR
of Program B.Sc. (H) CS Year/	
for successfully completing a v	alue added course
MACHINE LEARNING WITH	PYTHON
offered by Department of	COMPUTER APPLICATIONS
during 18 November	er 2020- 16 December 2020
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Head of the Department

Head

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (U)

Registrar Invertis University Barolly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.  of Program B.Sc. (H) CS Year/Semester  for successfully completing a value add	ed course
MACHINE LEARNING WITH PYTHO	TEED APPLICATIONS
1V NAVBIIIIPI ZIIZU	16 December 2020
during Aw	Course Coordinator
Head of the Department	Course
The second secon	Alestran University  Faculty of Computer Acciliations  Inversity University, Barrelly (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certificat	te is awarded to	Mr./Ms.	JITIN KUMAR SINGH
of Program_B	.Sc. (H) CS Ye	ear/Semester	III SEMESTER
for successful			
MACHINE LI			
offered by Dep	partment of	COMPUT	TER APPLICATIONS
during 18 November 2020- 16 December 2020			
	11 =		

Head of the Department

Registrar Invertis University Bareilly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	SANJEEV KUMAR	
of Program B.Sc. (H) CS Year/Semester	III SEMESTER	
for successfully completing a value adde		
MACHINE LEARNING WITH PYTHO	N	
offered by Department of COMPU	TER APPLICATIONS	
during 18 November 2020- 16 December 2020		
A.I		

Head of the Department

Head

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar Invertis University Barcilly Course Coordinator

Dean Academics

Bean Academics

Faculty of Computer Applications

Faculty of Computer Applications

Invertis University, Bareilly (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./	Ms. MANEE SEJWAR
of Program B.Sc. (H) CS Year/Se	
for successfully completing a value MACHINE LEARNING WITH P	ie added course
offered by Department of Co	OMPUTER APPLICATIONS
during 18 November	2020- 16 December 2020

Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
Invertis University Computer (UP)

Registrar Invertis University Course Coordinator

Dean Academics

Dean Academics
Applications
Faculty of Computer Applications
Invertis University, Bareilly IUPI



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms	SONAM GANDHI
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value add	ed course
MACHINE LEARNING WITH PYTHO	N
offered by Department of COMPU	TER APPLICATIONS
during 18 November 2020-	16 December 2020
and and	25
Head of the Department	Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	ANUJ SRIVASTAVA
of Program B.Sc. (H) CS Year/Semester _	III SEMESTER
for successfully completing a value added	course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUTE	ER APPLICATIONS
during 18 November 2020- 16	December 2020

Head of the Department

Head

Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar Invertis University Bareilly Course Coordinator

Dean Academics

Dean Academics

Applications

Faculty of Computer Applications

Bareilly (UP)

Invertis University.



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	SHIVAM TRIVEDI
of Program B.Sc. (H) CS Year/Semester _	III SEMESTER
for successfully completing a value added	course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUTE	ER APPLICATIONS
during 18 November 2020- 16	December 2020

Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (UP)

Registrar Invertis University Baroilly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to	o Mr./Ms.	SURAJ SINGH
of Program B.Sc. (H) CS Y		III SEMESTER
for successfully completing MACHINE LEARNING WI	a value added of	course
offered by Department of	COMPUTE	R APPLICATIONS
during18 Nove	mber 2020- 16 I	December 2020

Head of the Department

Course Coordinator

Inverte University



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./	Ms. VAIBHAV PARASHAR
of Program B.Sc. (H) CS Year/Ser	mester III SEMESTER
for successfully completing a valu	e added course
MACHINE LEARNING WITH PY	THON
offered by Department of CO	MPUTER APPLICATIONS
during 18 November 2	2020- 16 December 2020

Head of the Department

Head

Department of Computer Applications
Faculty of Computer Applications
Highert's University, Bareilly (UP)

Course Coordinator

Dean Academics
Applications
Faculty of Computer Bareilly (UP)
Invertis University.



CERTIFICATE OF VALUE ADDED COURSE

to Mr./Ms.	SHIVANI MAURYA
Year/Semester _	III SEMESTER
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COMPUTE	ER APPLICATIONS
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Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
Invertis University, Bareilly (LIP)

Registrar Invertis University Bareilly Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

Ar./Ms. JEESHAN All
/Semester III SEMESTER
PYTHON
COMPUTER AFFLICATIONS
oer 2020- 16 December 2020

Head of the Department

Head
Department of Computer Applications
Faculty of Computer Applications
leversis University, Bareilly (MF7)

Registrat Inverte University Barally Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	AADIL KHAN
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added of	course
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Head of the Department

Head
Department of Computer Applications
— Faceley of Computer Applications
fovertis University, Barathy (UP-

Registral University triversity Beliefly

Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	ABHISHEK VERMA
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added	d course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUT	TER APPLICATIONS
during 18 November 2020- 1	6 December 2020
- W	
Head of the Department	Course Coordinator

Registrar Invertis University Bereilly



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	GAURAV SINGH
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added MACHINE LEARNING WITH PYTHON	l course
offered by Department of COMPUT	ER APPLICATIONS
during 18 November 2020- 16	6 December 2020

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Faculty of Computer Applications
Invertis University, Bareilly IUPI



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	SARANSH MISHRA
of Program B.Sc. (H) CS Year/Semester _	III SEMESTER
for successfully completing a value added	course
MACHINE I FADNING WITH PYTHON	
CC 1 1- Department of COMPUT	ER APPLICATIONS
during	December 2020
- Ma	C Coordinator

Head of the Department

Head

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Faculty of Computer Applications
Invertis University, Barcilly (UP)

Registrar Invertis University Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms. KUSHAGRA VAISH of Program B.Sc. (H) CS Year/Semester III SEMESTER	_
for successfully completing a value added course	
MACHINE LEARNING WITH PYTHON offered by Department of COMPUTER APPLICATIONS during 18 November 2020- 16 December 2020	

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms	HASSAN MOHD ANSARI
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value adde	ed course
MACHINE LEARNING WITH PYTHO	N
OTTOTOG O   Department	TER APPLICATIONS
during 18 November 2020-1	16 December 2020

Head of the Department

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Invertis University Bareilly \_\_\_\_

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This Certificate is awarded to Mr./Ms.	
of Program B.Sc. (H) CS Year/Semes	ster III SEMESTER
for successfully completing a value a	
MACHINE LEARNING WITH PYTI	HON
offered by Department of COM	PUTER APPLICATIONS
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Bareilly

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	SUSHEEL PRAJAPATI
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added	course
MACHINE LEARNING WITH PYTHON	
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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	RISHAV MISHRA
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added	course
MACHINE LEARNING WITH PYTHON	
offered by Department of COMPUTE	R APPLICATIONS
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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms.	SHEKHAR TRIVEDI
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added	course
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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to	Mr./Ms. AJAY DUBEY
of Program B.Sc. (H) CS Ye	ear/Semester III SEMESTER
for successfully completing	a value added course
MACHINE LEARNING WIT	TH PYTHON
offered by Department of	COMPUTER APPLICATIONS
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Head of the Department

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CERTIFICATE OF VALUE ADDED COURSE

This Certificate is	s awarded to Mr./Ms	AKSHAY CHAUHAN
	. (H) CS Year/Semester	III SEMESTER
for successfully	completing a value added	course
MACHINE LEAD	RNING WITH PYTHON	
offered by Depart	ment of COMPUT	ER APPLICATIONS
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Faculty of Computer Applications
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Head of the Department

Head Department of Computer Applications Faculty of Computer Applications Invertis University, Bareilly (UP)

Registrar Invertis University Barellly

Course Coordinator

Faculty of Computer Applications Inverte University, Barelly (UP)



CERTIFICATE OF VALUE ADDED COURSE

This Certificate is awarded to Mr./Ms	LATA MISHRA
of Program B.Sc. (H) CS Year/Semester	III SEMESTER
for successfully completing a value added of MACHINE LEARNING WITH PYTHON	ourse
offered by Department of COMPUTE	R APPLICATIONS
during 18 November 2020- 16 I	December 2020

Head of the Department

Radistrar Invertis University Course Coordinator



CERTIFICATE OF VALUE ADDED COURSE

This Certifi	cate is awarded t	o Mr./Ms.	RAJDEEP KAUR
of Program_	B.Sc. (H) CS Y	ear/Semester	III SEMESTER
for successf	fully completing	a value added of	course
MACHINE	LEARNING WI	TH PYTHON	
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