

TECNIA INSTITUTE OF ADVANCED STUDIES
NAAC ACCREDITED GRADE "A" INSTITUTE
Master of Computer Applications

TIAS/MCA/VAC/2018-19/26

Dated: 27/03/2019

Academic Session: 2018-19

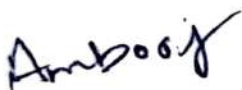
Status on Date 27/03/2019

This is to certify that the course module for Value Added Course, entitled Certificate Course in Machine Learning scheduled from 11.02.2019 to 27.03.2019 comprising of 30 hours deliverance has been completed by the resource person Ms. Ambooj, Faculty in Department of Computer Applications with the module contents as under:

S.No.	Contents Deliverance	Learning Outcomes
1	Introduction to Machine Learning (1 Hr)	Students will gain a solid understanding of the foundational concepts of machine learning.
2	Data Preprocessing and Exploration (2 Hrs)	Students will learn techniques to preprocess and clean data, such as handling missing values, outlier detection, and feature scaling.
3	Supervised Learning Algorithms (3 Hrs)	Students will become familiar with various machine learning algorithms such as linear regression, logistic regression, decision trees, random forests, support vector machines (SVMs), naive Bayes, k-nearest neighbors (KNN), and neural networks.
4	Unsupervised Learning Algorithms(3 Hrs)	Students will gain knowledge of techniques to evaluate the performance of machine learning models, including accuracy, precision, recall, F1 score, and ROC curves.
5	Feature Engineering (3 Hrs)	Students will understand how to extract meaningful features from raw data, perform dimensionality reduction techniques.
6	Model Evaluation and Validation (3 Hrs)	Students will have an introduction to deep learning and neural networks, including the architecture of feed forward, convolutional, and recurrent neural networks.

7	Evaluation and Validation of Machine Learning Models (4 Hrs)	Throughout the course, students may work with real-world datasets to gain practical experience in data preprocessing, feature engineering, model selection, and evaluation.
8	Deep Learning and Neural Networks (4 Hrs)	Students will have the opportunity to implement machine learning algorithms using programming languages.
9	Reinforcement Learning (3 Hrs)	Students will understand the ethical implications of using machine learning algorithms, including potential biases in data and models.
10	Practical Implementations and Project experience: Many machine learning (4 Hrs)	Students will apply their knowledge and skills to solve a real-world problem.

All the above contents are delivered to the best of my knowledge and belief and nothing is withheld.



Signature of Faculty

Name of Faculty: Ms. Ambooj

Dated: 27/03/2019

Submitted to HoD-MCA, Department of Computer Applications

Students' Declaration

We would like to declare, that the course module for Value Added Course, entitled Certificate Course in Machine Learning scheduled from 11.02.2019 to 27.03.2019 comprising of 30 hours, has been completed by the resource person Ms. Ambooj, Faculty in Department of Computer Applications to our satisfaction and is able to help in developing our domain knowledge and capacity building.

S.No.	Enrollment No.	Student's Name	Signature
1	00117004418	ABHISHEK KUMAR	Abhishek
2	00117024418	AASHNA CHOUDHARY	A Choudhary
3	00217004418	HIMANSHI RATHI	Himanshi
4	00317004418	MANIK BHARDWAJ	Manik
5	00317024418	KARTIK SANG	Kartik
6	00417004418	PRABAL SETHI	PRABAL
7	00517004418	PRATEEK MITTAL	P.Mittal
8	00517024418	ANKIT SHARMA	Ankit
9	00617024418	PRATEEK CHHITORIA	Prateek
10	00817024418	ANJALI DOGRA	Anjali
11	35117004418	ANKITA BAJPAI	Ankita
12	35217004418	ASHIKA KARIWAL	Ashika
13	35317004418	GAURAV KRISHAN	Gaurav
14	35417004418	RASHMI	Rashmi
15	35517004418	UTKARSH AWASTHI	U Awasthi
16	90117004418	SUSHMITA	Sushmita
17	00617004418	PRIYA	Priya
18	00521324418	SAJAL TRIPATHI	Sajal
19	00621324418	ARJAN SINGH	A Singh
20	00721324418	PRIYAM MONDAL	Priyam Mondal
21	00821324418	ANJALI GUPTA	Anjali
22	00921324418	PULKIT GUPTA	Pulkit
23	40117004418	RIJO ABRAHIM ROY	Rijo

24	00117004417	ABHISHEK GUPTA	Abhishek
25	00217004417	AJAY MAJI	Ajay
26	00317004417	DEEPAWALI SHARMA	Deepawali
27	00417004417	LAKSHIKA ADHIKARI	Lakshika
28	00517004417	MONALISHA SINGH	Monalisha
29	00617004417	PRABHAT	Prabhat
30	00717004417	RAJAT BANSAL	Rajat
31	00817004417	SAGAR PANCHAL	Sagar
32	00917004417	SIMRAN SHARMA	Simran
33	35117004417	AASHU SINGH	Aashu