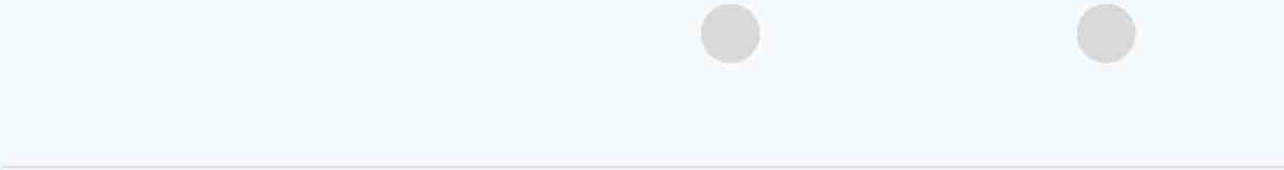




MACHINE LEARNING

C_MAT2202



Report

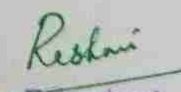
Machine Learning 2022-23

The Add on course on Machine Learning started on 27th June 2022 by signing an MoU between Department of Mathematics and Networkz Systems. There were 25 students from DCIII Mathematics as participants. The participants are as follows:

Sl No.	Name of Student
1	Aarya Krishna
2	Andria Smoni Deric
3	Anjana N
4	Anju B A
5	Anju Krishna
6	Aosshna Ajay
7	Aparna M
8	Diya Chandana
9	Gayathri Santhosh
10	Gopika Krishna S
11	Hanan Nahas
12	Jincy Johnson
13	Mischelle S G
14	Mridula B
15	Noufia S N
16	Piyusha Ullas
17	Rashida R
18	Rona R
19	Shilpa Sajeev
20	Siva Ganga V S
21	Sona E L
22	Sona Mandez
23	Taletha Lisa John
24	Tania Lazer
25	Vineetha Albert

The course had 40 hours' duration and covered topics like Python, Data Manipulation, Data Visualization, Regression, Clustering, Model Evaluation etc. A project work and an evaluation was conducted and grades were given to the participants. A certificate was issued to all the active participants.




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MACHINE LEARNING - 40HRS

1. Introduction to Python
 - ✓ Why python?
 - ✓ Data structures in python
 - ✓ Looping and control statements
2. Functions and Modules
 - ✓ Functions
 - ✓ Recursion
 - ✓ Modules
3. Introduction to Numpy
 - ✓ Properties and types of nd array
 - ✓ Basic operations
 - ✓ Accessing array elements
4. Data Manipulation
 - ✓ Introduction to pandas
 - ✓ Series
 - ✓ Dataframe
5. Data Visualization
 - ✓ Plotting basic charts
 - ✓ Matplotlib styles
 - ✓ Matplotlib subplots
6. Regression
 - ✓ Types of regression
 - ✓ Linear Regression
 - ✓ Multiple Linear Regression
7. K-nearest Neighbor Classifier
 - ✓ Nearest neighbor algorithm
 - ✓ KNN from Scratch



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✓ KNN using SKLearn

8. Ensemble Machine Learning Method

✓ Decision tree model

✓ Measures of node impurity

✓ Random Forest model

9. Clustering

✓ What is Clustering?

✓ Clustering Overflow

✓ K-means Algorithm

10. Model Evaluation

✓ Performance Estimation

✓ Model generation

✓ Evaluation in classification

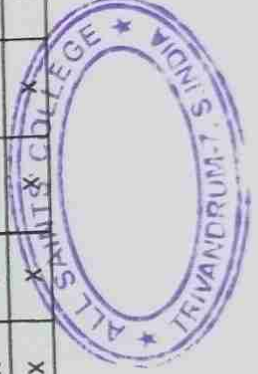


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Thiruvananthapuram.

2022-2023

Machine Learning (Attendance)

Sl No.	Name of Student	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 9	Day 9	Day 10	Grade	Sign
1	Aarya Krishna	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Aarya</i>
2	Andria Smoni Deric	x	x	x	x	x	x	x	a	x	x	x	x	A	<i>Andria</i>
3	Anjana N	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Anjana</i>
4	Anju B A	x	x	x	x	x	x	a	x	x	x	x	x	A	<i>Anju</i>
5	Anju Krishna	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Anju</i>
6	Aosshna Ajay	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Aosshna</i>
7	Aparna M	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Aparna</i>
8	Diya Chandana	x	a	x	x	x	x	x	x	x	x	x	x	A	<i>Diya</i>
9	Gayathri Santhosh	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Gayathri</i>
10	Gopika Krishna S	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Gopika</i>
11	Hanan Nahas	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Hanan</i>
12	Jincy Johnson	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Jincy</i>
13	Mischelle S G	x	x	x	x	x	x	x	a	x	x	x	x	A	<i>Mischelle</i>
14	Mridula B	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Mridula</i>
15	Noufia S N	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Noufia</i>
16	Piyusha Ullas	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Piyusha</i>
17	Rashida R	x	x	x	x	x	x	x	x	x	a	x	x	A	<i>Rashida</i>
18	Rona R	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Rona</i>
19	Shilpa Sajeev	x	x	x	x	a	x	x	x	x	x	x	x	A	<i>Shilpa</i>
20	Siva Ganga V S	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Siva</i>
21	Sona E L	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Sona</i>
22	Sona Mandez	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Sona</i>
23	Taletha Lisa John	x	x	x	x	x	x	x	a	x	x	x	x	A	<i>Taletha</i>
24	Tania Lazer	x	x	x	x	x	x	x	x	x	x	x	x	A	<i>Tania</i>
25	Vineetha Albert	a	x	x	x	x	x	x	x	x	x	x	x	A	<i>Vineetha</i>



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ALL SAINTS' COLLEGE, TRIVANDRUM

Re- accredited with A+ Grade by NAAC

DEPARTMENT OF MATHS

&

NETWORKZ SYSTEMS

ADD - ON COURSE

CERTIFICATE IN MACHINE LEARNING

DATE OF COMMENCEMENT

Renjni Raveendran P
Co-ordinator

27.06.2022



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Principal
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CERTIFICATE

This is to certify that Mr/Ms SONA E L, of III Year Bsc Maths,
All Saints' College has successfully completed the certificate course on **MACHINE
LEARNING** jointly organized by Networkz Systems and Department of Maths,
All Saints' College Thiruvananthapuram during academic year 2022 to 2023




MANAGING DIRECTOR

Head, Dept. of Maths
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This is to certify that Mr/Ms MRUDULA B, of III Year Bsc Maths,
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This is to certify that Mr/Ms DIYA CHANDANA, of III Year Bsc Maths,
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Signature

MANAGING DIRECTOR

Head, Dept. of Maths
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695001 Kerala, India

Signature
Principal

All Saints' College
Thiruvananthapuram

CERTIFICATE

This is to certify that Mr/Ms ANJANA N, of III Year Bsc Maths,
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National Skill Development Agency
Ministry of Skill Development and Entrepreneurship, Government of India

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