South Indian Education Society's

GRADUATE SCHOOL OF TECHNOLOGY, Nerul, Navi Mumbai.
DEPARTMENT OF ELECTRONICS AND COMPUTER SCIENCE

Decision Driven Machine Learning: A hands on Approach

January 06 to January 11, 2025

Click here to register

The Decision-Driven Machine Learning course focuses on bridging the gap between technical ML development and real-world decision-making impact. It emphasizes the importance of designing ML models and workflows that align with specific business or organizational objectives. Students will learn to identify key decision points, frame ML problems effectively, and evaluate model performance based on its ability to drive actionable outcomes. Through practical case studies and hands-on exercises, the course equips learners with the skills to craft ML solutions that optimize decisions, ensuring measurable value and strategic alignment with broader goals.

This course is designed to bridge that gap by offering hands-on, practical learning experience on different Machine Learning Algorithms.

About Instructors:

This course will be taught by a team of experts from Industry and SIESGST faculty members of the Electronics and Computer Science Department.

Industry Expert:

Mrs.Pranita Mahajan, Sr. Data Scienstist Elsevier.

Faculty Members:

1. Prof. Sheetal Kadam
2. Prof. Madhuri Kulkarni

Course Objectives:

1. To equip learners with the ability to connect machine learning techniques with real-world decision-making needs and objectives
2. To provide hands-on experience in building, and evaluating ML models tailored to solve problems in diverse areas.

Course Outcomes:

Students will be able to :
1. Build Mathematical foundation for machine learning
2. Understand various Machine learning models
3. Select suitable Machine learning models for a given problem.
4. Pre process and analyze data effectively for ML tasks, focusing on relevance to decision criteria
5. Build, evaluate, and compare ML models using modern libraries (e.g., Python, Scikit-learn)

Course Content:

Module	Contents	Hours
1.	**Introduction to Python:** Basic data types, Control structures and looping statements, functions Hands on practice.	6 hrs
2.	**Data Visualization and Analysis:-** Pandas, Matplotlib **Introduction to Machine Learning :** ML flow ,Types of Machine Learning, Evaluation of ML Algorithms	6 hrs
3.	**Supervised Machine Learning**: - Implementation of Linear regression- Single, Multiple & Polynomial. Implementation of Logistic regression- Binary & Multi-class. Hands on practice.	6 hrs
4	**Advanced Machine Learning algorithms:-** Decision tree, Random forest, Clustering - K-means, KNN. Hands on practice.	6 hrs
5	**Implementation of Time series forecasting case-study & development using Gradio .** **GitHub and Flask implementation**	6 hrs
6	**Mini Project Based on Machine Learning Algorithms**	11 hrs

Assessment:

1. Module wise assignments should be completed by students.
2. 15 Days Internship will be provided subject to the successful completion of Mini Project.

Course Coordinators:

Prof . Sheetal Kadam

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Prof. Madhuri Kulkarni
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Ph: 9595008467

SIES Graduate School of Technology
Sri Chandrasekarendra Saraswati Vidyapuram
Sector 5, Nerul, Navimumbai-400706

DEPARTMENT OF ELECTRONICS AND COMPUTER SCIENCE ENGINEERING

Event Report

"Value Added Course on Decision Driven Machine Learning " -A hands on approach

Event Information
Event Type: Value Added Course
Event title: " **Decision Driven Machine Learning** "- **A hands on approach**
Event Date: January 06 to 11, 2025
Organized for: SIESGST Students of all branches
Organized by: - SIES ,GST
Target Audience: SIESGST Students of all branches
Resource Person: Prof. Sheetal Kadam and Prof. Madhuri Kulkarni Mrs.Pranita Mahajan, Sr. Data Scienstist Elsevier.
Attachments: 1. Photographs (in JPEG/PNG) 2. Attendance (Screen Capture) 3. Feedback 4. Impact analysis

Event Description

From January 6 to 11, 2025, SIESGST hosted a comprehensive Skill Development Program (SDP) on Decision Driven Machine Learning. This program was designed to enhance students' understanding and practical skills in the field of machine learning. The course was instructed by Prof. Sheetal Kadam and Prof. Madhuri Kulkarni, with coordination by Prof. Paurnima Patil. Throughout the six days, students delved into essential topics such as key algorithms, practical applications, and evaluation techniques.

Students actively participated in hands-on labs, quizzes, and project implementations, solidifying their understanding and expertise. The final day featured a valuable session by industry expert Mrs. Pranita Mahajan, providing real-world insights and industry trends. The program successfully equipped students with advanced skills in decision-driven machine learning, fostering a keen interest in pursuing careers in this dynamic field.

Additionally, the course encouraged collaborative learning and teamwork among the participants. Students had the opportunity to work on group projects, which not only enhanced their technical skills but also developed their ability to communicate and work effectively within a team. This holistic approach ensured that students were well-prepared for future challenges in the machine learning industry.

1. Photographs (in JPEG/JPG)


GPS Map Camera
Navi Mumbai, Maharashtra, India
Sri Chandrasekarendra Saraswathy Vidyapuram, 22vf+46q, Dr D Y Patil Vidyanagar, Sector 5, Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.043012° Long 73.023354°
10/01/2025 10:09 AM GMT +05:30
Google


GPS Map Camera
Navi Mumbai, Maharashtra, India
Sri Chandrasekarendra Saraswati Vidyapuram Sector-v, Dr D Y Patil Vidyanagar, Sector 5, Nerul, Navi Mumbai, Maharashtra 400706, India
Lat 19.042686° Long 73.023157°
09/01/25 11:12 AM GMT +05:30
Google

2. Attendance

SIES GRADUATE SCHOOL OF TECHNOLOGY

Department of Electronics and Computer Science

Attendance Record for Expert Session of SDP by 'Pranita Mahajan'

3rd day session:

SR.NO.	ROLL NO	NAME OF THE STUDENT	Class	Branch	10-01-2025 Signature (10 am to 1 pm)	10-01-2025 Signature (2 pm to 5 pm)
1	124A7038	Harini Madhavan Nadar	FE	ECS		
2	124A7060	Subhronil Chattoraj	FE	ECS		
3	124A7039	Karthika Balasingh Nadar	FE	ECS		
4	124A7052	Saran Rajasekhar	FE	ECS		
5	124A7050	Pranjali Rane	FE	ECS		
6	124A7011	Sarvesh Tanaji Ghadge	FE	ECS		
7	124A7055	Kiran Shetty	FE	ECS	Shetty	Shetty
8	124A7025	Soham Kulkarni	FE	ECS		
9	124A7007	Harish Kiran Desai	FE	ECS		
10	124A7016	Samrudhi Jadhav	FE	ECS		
11	124A7057	Sahil shinde	FE	ECS		
12	124A2061	Anjali Bansh Bahadur Yadav	FE	EXTC	Anjali	Anjali
13	124A3058	Singh Aashta Anirudh	FE	IT		
14	124A3051	Darshan Kisan Shikare	FE	IT		
15	124A3054	Shlok Dhawan	FE	IT		
16	124A3002	Piyush Ahire	FE	IT		
17	124AX027	Saarif khan	FE	CSE-IOT	Saarif	Saarif
18	124A9062	Ovee Wakchaure	FE	AIML	Ovee	Ovee
19	123A1062	Chirayu Sanjay Marathe	SE	CE		
20	123A1104	Fardeen Naeem Sayed	SE	CE	Fardeen	
21	123A7032	Mohammad Moinuddin Hasan	SE	ECS		
22	123A7015	Purva B Dutta	SE	ECS		
23	123A7011	Sahil Chavan	SE	ECS		
24	123A7001	Ananya Siddayyanavar	SE	AIDS	Ananya	Ananya
25	224A8066	Amir Nasir Khan	SE	AIDS	Aditya	Aditya
26	224A8064	BILAL	SE	AIDS	Bilal	Bilal
27	224A8069	Shreya Rajiv Pawar	SE	AIDS	Shreya	Shreya
28	123A8014	Toshika ~~shetiya~~ chettier	SE	AIDS	Toshika	Toshika
29	123A8046	Priyadarshini Kalaiarasan	SE	AIDS	Priyadarshini	Priyadarshini
30	123A8053	Shaikh Mohammed Abbas Zaheer	SE	AIDS	Abbas	Abbas
31	123A8016	Sakshi Vijay Desai	SE	AIDS	Sakshi	Sakshi
32	123A8018	Sanjana Gadapa	SE	AIML	Sanjana	Sanjana
33	123A9039	Rohit Rajendra Chiluka	SE	AIML	Rohit	Rohit
34	123A9040	Saachi Sawant	SE	AIML	Saachi	Saachi
35	123A9042	Pratham Chandrashekhar Salgaonkar	SE	AIML	Pratham	Pratham
36	123A9023	Dewang Mahesh Mahadadalkar	SE	AIML	Dewang	Dewang
37	123A9021	Krishna Chaurasia	SE	AIML	Krishna	Krishna
38	123A9005	Kevin Manohar Borse	SE	AIML	Kevin	Kevin
39	123A9050	Shravani Mukund Bhosale	SE	AIML	Shravani	Shravani
40	123A9009	Prabhjyot Singh	SE	AIML	Prabhjyot	Prabhjyot
41	123A9048	Vikrant shirapuri	SE	AIML	Vikrant	Vikrant
42	123A9003	Atharva Bagwe	SE	AIML	Atharva	Atharva
43	123A9020	Madhvan konar	SE	AIML	Madhvan	Madhvan
44	123A9022	Mayuresh Lonikar	SE	AIML	Mayuresh	Mayuresh
45	123A9018	Chaitanya Karole	TE	ECS	Chaitanya	Chaitanya
46	122A7024	Madhavan Konar	TE	ECS	Madhavan	Madhavan
47	122A7020	Himanshu Dwivedi	TE	ECS	Himanshu	Himanshu
48	122A7049	Shravani Kerkar	TE	ECS	Shravani	Shravani
49	122A7054	Sujal Sushil Parab	TE	ECS	Sujal	Sujal
50	122A7010	Ashish Srivastav	TE	ECS	Ashish	Ashish
51	122A7013	Ayush Anil Shukla	TE	ECS	Ayush	Ayush
52	122A7025	Maitreya Kamble	TE	ECS	Maitreya	Maitreya
53	122A7056	Sumit Sonawane	TE	ECS	Sumit	Sumit
54	122A7035	Nitesh Singh	TE	ECS	Nitesh	Nitesh
55	122A7027	Manav Patne			Manav	Manav

3. Project details

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"Value Added Course on Decision Driven Machine Learning "

FH2025

Mini Project

Sr.No	Group No	Roll No	Branch	Year	Name	Project Title
1	G1	123A9021	AIML	SE	Krishna Chaurasia	
2		123A9020	AIML	SE	Madhavan Konar	**Calories Burnt Predicter**
3		123A9005	AIML	SE	Kevin Manohar Borse	
4						
5	G2	224A8069	Ai ds	se	Shreya pawar	
6		224A8064	Ai ds	se	Bilal Baddi	**Flight price prediction**
7		224A8066	Ai ds	se	Amir Khan	
8						
9	G3	123A9042	AIML	SE	Pratham Salgaonkar	**Energy consumption prediction**
10		123A9039	AIML	SE	Rohit Chiluka	
11						
12						
13	G4	123A9003	AIML	SE	Atharva Bagwe	
14		123A9009	AIML	SE	Prabhjyot Singh	**Used Car price prediction**
15		123A9048	AIML	SE	Vikrant Shirapuri	
16						
17	G5	123A8018	AIDS	SE	Sanjana Gadapa	**Book Recommendation System**
18		123A8046	AIDS	SE	Priya Darshini K	
19						
20						
21	G6	123A8016	AIDS	SE	Sakshi Desai	**Movie recommendation System**
22		123A8014	AIDS	SE	Toshika Chettier	

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Mini Project

Sr.No	Group No	Roll No	Branch	Year	Name	Project Title	Signature
23	G6						
24							
25	G7	123A9022	AIML	SE	Mayuresh S Lonikar	**BigMart Sales Prediction**	
26		123A9023	AIML	SE	Dewang Mahadadalkar		
27							
28							
29	G8	123A9018	AIML	SE	Chaitanya Karole	**University Admission Predictor**	
30		123A9050	AIML	SE	Shravani Bhosale		
31							
32							
33	G9	123A7032	ECS	SE	hammad Moinuddin Has	**DDOS Prediction**	
34		123A8053	AIDS	SE	Mohammed Abbas Shaikh		
35		123A1104	CE	SE	Fardeen Naeem Sayed		
36							
37	G10	124A2061	EXTC	FE	Anjali Yadav	**dent marks and add a new student and their marks**	
38							
39							
40							
41	G11	124A7060	ECS	FE	Subhronil Chattoraj	**Diamond Price Predictor**	
42		124A7052	ECS	FE	Saran Rajasekhar		
43		124AX027	CSE(IOT)	FE	Saarif Khan		
44		124A9062	AIML	FE	Ovee Wakchaure		

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FH2025

Mini Project

Sr.No	Group No	Roll No	Branch	Year	Name	Project Title
45	G12	122A7025	ECS	TE	Maitreya Kamble	Diabetes Prediction System
46		122A7027	ECS	TE	Manav Patane	
47		122A7035	ECS	TE	Nitesh Singh	
48		122A7066	ECS	TE	Sumit Sonawane	
49	G13					
50		122A7024	ECS	TE	Madhavan Konar	
51		122A7020	ECS	TE	Himanshu Dwivedi	
52						
53	G14	122A7013	ECS	TE	Ayush Shukla	
54		122A7010	ECS	TE	Ashish Shrivastav	Mental Health Tracker
55		122A7064	ECS	TE	Sujal Parab	
56						

4. Feedback

3. Department (0 point) More details

13
Responses

Latest Responses
"AIML"
"ECS"
"AIDS"
...

4 respondents (31%) answered AIML for this question.

4. Email_id(edu.in) (0 point) More details

13
Responses

Latest Responses
"rohitrcaiml123@gst.sies.edu.in"
"harinimnecs124@gst.sies.edu.in"
"bilalbaids@siesgst"
...

5. Relevance of the session (0 point) More details

4.62
Average Rating

6. Content Delivery (0 point) More details

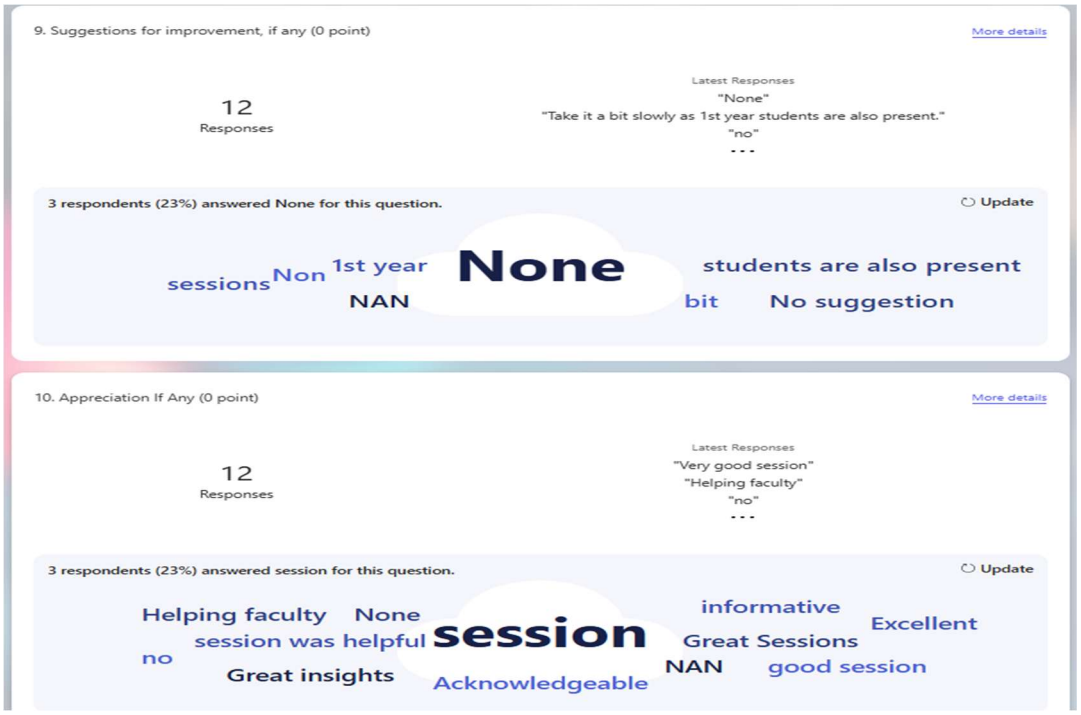
4.69
Average Rating

7. Effectiveness of the session (0 point) More details

4.23
Average Rating

8. Satisfaction in general (0 point) More details

4.31
Average Rating



5. **Impact analysis:**

Following the SDP course on Decision Driven Machine Learning, students developed a strong interest in machine learning technologies. They implemented both mini projects as part of their coursework. This hands-on experience motivated them to start searching for job opportunities in the machine learning domain, further solidifying their commitment to pursuing careers in this dynamic field.