



### Event Outcome Report

1. **Topic/ Title of Event: 5-Day Hands-on Workshop on Applied Supervised Machine Learning Using Python** (Refer to the Indicative List of Events)

2. **Type of Event:** (*Annex* the brochure/ information manual) (tick  the appropriate box)

<b>Conference</b>	<b>Seminar</b>	<b>FDP</b>	<b>SDP</b>	<b>Others, Specify</b>
<b>Guest Lecture</b>	<b>Webinar</b>	<b>MDP</b>	<b>Industrial Visit</b>	

Others, Specify: Student Orientation Programme

3. **Date/ Duration**

(2026/02/16) to  
5 days

<b>Online</b>	<input type="checkbox"/>	<b>Offline</b>	<input checked="" type="checkbox"/>	<b>Blended</b>	<input type="checkbox"/>
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**of Event Date:**

(2026/02/20):

4. **Mode (tick ): Offline**

5. **Collaboration, if any.**

<b>Name of Organisation</b>	<b>NA</b>	<b>NA</b>
<b>Sponsorship, if any</b>		

6. **Objective of Event:**

Supervised Machine Learning forms the backbone of modern data-driven applications across domains such as healthcare, finance, smart systems, automation, and digital transformation. This workshop aims to bridge the gap between theoretical knowledge and real-world implementation, thereby enhancing the teaching-learning process and employability skills of students.

The workshop will:

- Provide in-depth understanding of regression and classification algorithms
- Enable participants to build and evaluate predictive models using Python and Scikit-learn
- Support faculty upskilling in emerging technologies
- Enhance student readiness for industry and research

7. **Event contributing to SDGs (Global/ National/ Regional/ Local requirement). Yes**

*If Yes, Specify the SDG No. and event contribution in 50 words max.*

The proposed workshop directly contributes to the United Nations Sustainable Development Goals (SDGs) as outlined below:

- **SDG 4 – Quality Education:**  
Enhances inclusive and equitable quality education by strengthening digital competencies, analytical thinking, and hands-on technical skills among faculty and students.



- **SDG 8 – Decent Work and Economic Growth:**  
Improves employability and industry readiness by equipping participants with in-demand machine learning and data science skills relevant to the modern workforce.
- **SDG 9 – Industry, Innovation, and Infrastructure:**  
Promotes innovation and technological capability by enabling participants to develop intelligent data-driven solutions using supervised machine learning techniques.

This workshop supports the institution’s commitment to sustainable education and skill-based learning aligned with global development goals.

**8. Event usefulness leading to - Employability/ Entrepreneurship/ Skill Development/ IPR/ Innovation/ Professional Ethics/ Gender/ Environment etc. Yes**  
*If Yes, Specify in 50 words max.*

The Applied Supervised Machine Learning workshop enhanced participants’ employability and skill development by providing hands-on training in regression, classification, and decision tree models. It strengthened analytical thinking, data-driven decision-making, and practical implementation skills using real-world datasets, fostering innovation and preparing students for industry-oriented AI and data science roles.

**9. Name of Faculty Coordinators:**

- Dr. Kranthi Kumar Singamaneni, Associate Professor & HEAD – AIML, SIT-Hyderabad
- Dr. Salakapuri Rakesh, Assistant Professor, SIT-Hyderabad

**10. Resource Persons:** *Provide brief profile of resource person(s) in Brochure/ Information Manual*

S.No.	Name and Designation	Organization	Contact (Email & Ph. No.)
1	Mr. M. Venkat	Data Science Trainer	9063916519 vvnaikcse@gmail.com

**11. Total Number of Participants:**

Students	Faculty	Staff	Total Participants
88	10	5	103

a. **Student Attendance** (*Annex attendance details in the below-given format*)



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## B.Tech (Artificial Intelligence and Machine Learning) IV SEM\_AY: 2025-26 :: Batch 2024-28 5 Day Hands-on Workshop on Applied Supervised Machine Learning using Python

Venue: SIBM Lecture Theatre

Date: 16-02-2026 FN

SR NO	PRN	Name	Signature
1	24070722001	A V Gokulann	Gokulann
2	24070722002	Aamina Azeem Baig	Aamina
3	24070722003	Ananya Srivastava	Ananya
4	24070722004	Anirudh Pratap Singh Yadav	Anirudh
5	24070722005	Asmi Agarwal	Asmi
6	24070722006	Atcha Vaidyadev	Vaidyadev
7	24070722007	Chipiri Sai Krishna	Chipiri
8	24070722008	Dargula Mokshagna Reddy	Mokshagna
9	24070722010	Gangapuram Sanjay Goud	Sanjay Goud
10	24070722011	K Ghana Sai Reddy	Ghana Sai Reddy
11	24070722012	K U Parthiv	Parthiv
12	24070722013	Kondapalkula Sri Charan Rao	Charan Rao
13	24070722014	Kurikala Hasini	Hasini
14	24070722015	Mangali Hari Vardhan	Mangali
15	24070722016	Md Meraj Ansari	Meraj
16	24070722017	Mohd Rehan	Rehan
17	24070722019	Mrigank Pandey	Mrigank
18	24070722020	Nayenonipally Abhinav	Abhinav
19	24070722021	Pallati Omkar	Omkar
20	24070722022	Parth Shrivastava	Parth
21	24070722023	Peerlagudem Varshith Goud	Varshith
22	24070722024	Sriyanshu Sekhar Hota	Sriyanshu
23	24070722025	V P Mokshita	Mokshita
24	24070722026	Visanakarra Mahesh	Mahesh
25	24070722027	Kaki Yagna	Yagna
26	25070722501	CHINNA CHOWDARY TANAY REDDY	



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संयुक्त कर्मकर्म

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B.Tech (Computer Science and Technology)

IV SEM\_AY: 2025-26 :: Batch 2024-28

## 5 Day Hands-on Workdhop on Applied Supervised Machine Learning using Python

Venue: *STGM Lecture Theatre*

Date: *16-02-2026 FN*

SR NO	PRN	Name	Signature
1	24070724002	Amkanti Srishanth	
2	24070724003	Aum Aum	
3	24070724004	Etukapalli Abhilash	<i>Abhilash</i>
4	24070724005	Gunda Ravi Partha Sarathi	<i>Ravi</i>
5	24070724006	Gundu Chandrika	
6	24070724007	Harsh Anand	
7	24070724008	Harsh Raj	
8	24070724009	Juveriya Begum	
9	24070724010	Kotla Ram Bhupal Reddy	
10	24070724011	Krishna Sai Gorajala	<i>KS</i>
11	24070724012	Kummari Harini	
12	24070724013	Md Areeb Ahmed	<i>Areeb</i>
13	24070724014	Munnuru Varshitha	
14	24070724015	Nomula Sanjay Reddy	<i>Sanjay</i>
15	24070724016	Pendlimadugu Nikitha	
16	24070724017	Sumit Khandelwal	<i>Sumit</i>
17	24070724018	Syed Mudassir	<i>Mudassir</i>
18	24070724019	Vattikonda Venkata Karthik	<i>V Karthik</i>
19	24070724021	Dhruva Sai Phaneeswar	<i>Dhruva</i>



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**B.Tech (Computer Science and Engineering)**

**IV SEM\_AY: 2025-26 :: Batch 2024-28**

## **5 Day Hands-on Workshop on Applied Supervised Machine Learning using Python**

Venue: *SIBM Lecture Theatre*

Date: *16-02-2026 FN*

SR NO	PRN	Name	Signature
1	24070721001	Aavula Shashank	<i>A Shashank</i>
2	24070721002	Akankasha Priyadarsini	<i>Akankasha</i>
3	24070721004	Ancha Sree Sai Nadh	<i>Samed</i>
4	24070721005	Annedla Tej Kiran Reddy	<i>Tej</i>
5	24070721006	Anvi Trivedi	<i>Anvi Trivedi</i>
6	24070721007	Aparna Velpuri	<i>Aparna Velpuri</i>
7	24070721008	Beemanapalli Manish	<i>Manish</i>
8	24070721009	C Meghana	
9	24070721010	Choulapalli Sairam Reddy	<i>C. Sairam</i>
10	24070721011	Dasari Ajay Kumar	<i>Ajay</i>
11	24070721012	Harshit Divekar	<i>H.D</i>
12	24070721013	K Sandeep	<i>K Sandeep</i>
13	24070721014	Karyampudi Venkatesh	<i>Venky</i>
14	24070721015	Kolluri Manideep	
15	24070721016	Machagari Ankitha	<i>Ankitha</i>
16	24070721017	Mahesh Jella	<i>Mahesh</i>
17	24070721018	Malchalam Aditya	<i>M. Aditya</i>
18	24070721019	Mallepally Shashikiran	<i>Shashikiran</i>
19	24070721020	Md Zakiur Rahman	<i>Md Zakiur Rahman</i>
20	24070721022	Mohammed Jissan .	
21	24070721023	Naligeshi Srivani	
22	24070721024	Pakanati Sandeep Reddy	<i>Sandeep</i>
23	24070721025	Pasumarthi Venkata Lakshmi Srujana	<i>Srujana</i>
24	24070721026	Poulomi Chatterjee	<i>Poulomi</i>



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SR NO	PRN	Name	Signature
25	24070721027	Prachi Bhowal	Prachi
26	24070721028	Krishkumar Prajapati	Krishkumar
27	24070721029	Pramit Panigrahi	Pramit
28	24070721030	Pratapagiri Karthik	Karthik
29	24070721031	Prayash Raj Mishra	Prayash
30	24070721032	Raj Aryan	Raj
31	24070721033	Riya Shastri	Riya
32	24070721034	Rohini Sengupta	Rohini Sengupta
33	24070721035	Saanvi Dande	
34	24070721036	Vadla Sai Varshini	
35	24070721037	Smaran Jaianand	Smaran
36	24070721038	Sneha Gandhi	Sneha
37	24070721039	Subhrayoti Samal	Subhrayoti
38	24070721040	Sujay Indupuru	Sujay
39	24070721041	Telukonti Sainivas	T. Sainivas
40	24070721042	Utsha Roy	Utsha
41	24070721043	Vinay Chakravarthy Addanki	Vinay
42	24070721044	Yamadhandu Bharath Kumar	Bharath Kumar
43	24070721045	MEENAKSHI VEDALA	Meenakshi



## 12. Programme Schedule

Venue: Computer Lab 5

<i>Day No.</i>	<i>Date (Day)</i>	<i>Session Overview</i>
1	16 <sup>th</sup> Feb, 2026 (Monday)	Regression basics Covariance Correlation Ordinary least squares Simple linear regression using gradient descent method
2	17 <sup>th</sup> Feb, 2026 (Monday)	Multi linear regression Polynomial regression Ridge and lasso regression
3	18 <sup>th</sup> Feb, 2026 (Monday)	Linear classification Logistic regression Binomial classification Multiclass classification K-nearest neighbour
4	19 <sup>th</sup> Feb, 2026 (Monday)	Naive bayes classifier NBC with numerical data SVM classification SVM with linear data SVM with non-linear data
5	20 <sup>th</sup> Feb, 2026 (Monday)	Decision tree algorithm Decision tree regressor Decision tree classifier Random forest ensemble algorithm Numerical steps in random forest algorithm



**13. Description of Event (max. 250 words)**

The 5-Day Hands-on Workshop on *Applied Supervised Machine Learning using Python* was designed to provide participants with a strong foundation in mathematical modeling and practical implementation of supervised learning techniques. The workshop systematically covered both regression and classification algorithms with a balance of theory and real-time applications.

Day 1 focused on Regression Basics, including Covariance, Correlation, Ordinary Least Squares (OLS), and Simple Linear Regression using the Gradient Descent method, with detailed mathematical derivations and Python implementations. Day 2 extended the concepts to Multilevel Regression models.

Day 3 introduced Linear Classifiers such as Logistic Regression and K-Nearest Neighbors (KNN). Day 4 covered probabilistic and margin-based classifiers including Naïve Bayes and Support Vector Machines (SVM). Day 5 emphasized tree-based models, including Decision Trees and Random Forest algorithms.

Each day was structured with FN (Forenoon) sessions dedicated to mathematical model explanations, derivations, and algorithmic understanding, while AN (Afternoon) sessions focused on solving real-time case studies using Python. Participants implemented models, analyzed outputs, and interpreted results using practical datasets.

The workshop enhanced analytical thinking, problem-solving ability, and industry-relevant skills in data analysis and machine learning, bridging the gap between theoretical foundations and real-world applications.

**14. Feedback Analysis (preferably create a graphical representation):**

	1	2	3	4	5	6	7	8	9	10
<b>Overall Satisfaction</b>								√		
<b>Usefulness of Event</b>									√	
<b>Resource Persons</b>								√		
<b>Quality of Content</b>									√	
<b>Ease in attending</b> (Offline/ Online/ Blended)								√		
<b>Support at Event</b> (Organizing team feedback)									√	
<b>Accommodation</b> (if availed)										
<b>Handouts/ Study Material</b> (if provided)									√	

Tick (√) to Scale on 1-10 (1 – unsatisfactory and 10 – exceptional)

Suggestions, if

any \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



### 15. Details of Achieved Outcomes (Whether the objectives were achieved and an inclusive environment was created?) (max 50 words)

The workshop successfully achieved its objectives by strengthening participants' conceptual and practical understanding of supervised machine learning. Attendees demonstrated the ability to design, train, and evaluate regression and classification models. Faculty enhanced their teaching effectiveness, while students improved their industry readiness and research preparedness in an inclusive learning environment.

### 16. Photographs/ Press Note/ Media Coverage:

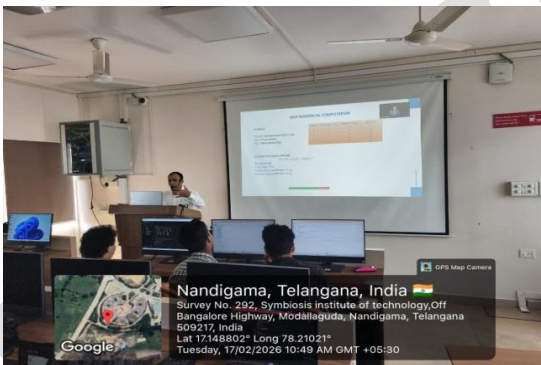
*Note:* Max 2-4 geotagged-pics (please follow geo tagging guidelines issued by SIU)



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509217, India  
Lat 17.148599° Long 78.210623°  
Monday, 16/02/2026 10:30 AM GMT +05:30



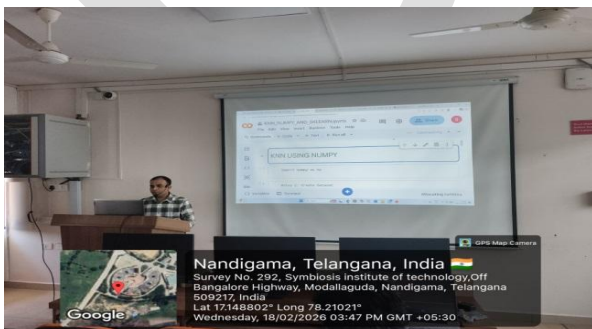
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Lat 17.148802° Long 78.21021°  
Tuesday, 17/02/2026 10:49 AM GMT +05:30



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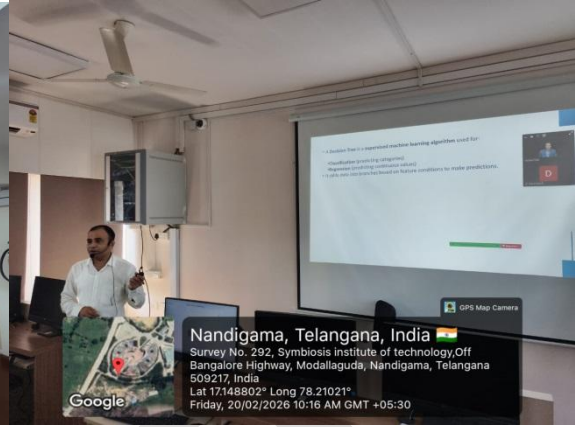
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Thursday, 19/02/2026 09:56 AM GMT +05:30



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## 5 DAY HANDS-ON WORKSHOP on APPLIED SUPERVISED MACHINE LEARNING USING PYTHON

**RESOURCE PERSON**

**Mr. M.VENKAT**  
DATA SCIENCE TRAINER

**Coordinators**

Dr. Kranthi Kumar Singamaneni  
Associate Professor

Dr. Salakapuri Rakesh  
Assistant Professor

16 - 20 FEB, 2026

SIT Hyderabad

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<b>Signature &amp; Name (QIC Coordinator)</b>	<b>Signature, Name &amp; Seal (Director of Institute)</b>