



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
Shirgaon, Virar (East), Tal: Vasai, Dist: Palghar-401305, Maharashtra.
Website: www.viva-technology.org

Department of Electronics and Telecommunication Engineering

Report on University of Mumbai and ISTE Approved One Week Short Term Training Program on

“Machine Learning and Data Science Application”

Organized by

Department of Electronics and Telecommunication Engineering and Department of Electrical Engineering

The objective of the one week short term training program is to provide conceptual understanding of how machine learning and data science can be applied to Real world problems and how learning tools and techniques are to be applied to different applications.

Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. The purpose of this STTP is to bring together researchers & PG students from academia and Engineers & Scientists from industry and R&D institutes to have discussions on various ways in which these tools can be used to carry out research.

Topics Covered in STTP on **“Machine Learning and Data Science Application”**

- Introduction to Machine learning and recent applications
- Hands-on feature engineering
- Hands-on machine learning algorithms like linear regression, SVM.
- Data science pre-processing and modelling.
- Data science analytics, processing visualization of real world data.
- Real life applications of data science.

At the end of STTP participants are able to

- Knowledge of implementation of various machine learning algorithms.
- In depth understanding of data science and its related applications.
- Learning tools and techniques applied to different applications.



Department of Electronics and Telecommunication Engineering

The University of Mumbai introduced revised curriculum which includes, programing and software simulation in different subjects. As new developments are introducing in industry day by day demanding expertise in the field of software coding and programing language, it was felt necessary that the teaching faculty also become competent in the said technology. With keeping this as an intension the University of Mumbai and ISTE approved STTP was conducted from 2nd Jan to 6th Jan, 2023 in Electronics and Telecommunication Engineering Department, VIVA Institute of Technology.

Details of the speakers is as under

SN.	Name of the Guest Speaker	Details of the Speaker	Topics Addressed	Date
1	Dr. Sujata Kulkarni	Associate Professor, SPIT, Andheri	Introduction to Machine Learning and Recent Applications	02/01/2023
2	Prof. Sindhu Nair	Assistant Professor D J Sanghvi	Python Programming	03/01/2023
3	Prof. Sindhu Nair	Assistant Professor D J Sanghvi	Machine Learning Algorithm	04/01/2023
4	Prof. Samidha Kurle	Senior Lecturer Regenesys Business School, Vashi	Data Visualization and Tableau	05/01/2023
5	Mr. Yadnesh Zagade	Senior Research & Development Engineer C.E.O. & Founder	Data Science Pre- Processing and Modelling, real life applications of data science	06/01/2023

Participants were the teaching faculty of Engineering College. Total of 18 faculty members participated in the One week Short Term Training Program conducted.

On the last day of STTP institute had received the feedbacks from the participants that they have learned and enhanced their knowledge in this STTP and they would always want to attend this kind of STTP in this institute once again. The overall feedback of the Training Program was encouraging and was highly rated by the participants.



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