



Late Shri. Vishnu Waman Thakur Charitable Trust's
VIVA INSTITUTE OF TECHNOLOGY
(Approved by AICTE, New Delhi, DTE, Govt. of Maharashtra and Affiliated to the University of Mumbai)

Computer Engineering Department



Report on AICTE-ISTE Approved One Week STTP, on Machine Learning and Deep Learning organized by Computer Engineering Department

Things like growing volumes and varieties of available data, computational processing that is cheaper and more powerful, affordable data storage and complex nature of applications are responsible for resurging interest in machine learning and deep learning.

All of these things mean it's possible to quickly and automatically produce models that can analyze bigger, more complex data and deliver faster, more accurate results, even on a very large scale. And by building precise models, an organization has a better chance of identifying profitable opportunities, or avoiding unknown risks. Machine learning and Deep learning play a very vital role in the data analysis and building a model for prediction or classification with the help of past data.

Due to this reason, the STTP was organized by the Computer Engineering Department, VIVA Institute of Technology on “Machine Learning and Deep Learning”. The speakers were invited from the reputed educational institutes as well as relevant industries.

STTP on Machine Learning and Deep Learning

The objectives of the AICTE- ISTE Approved STTP were

- To familiarize with the basic concepts of ML and DL.
- To help the participants in implementation of algorithms of ML and DL
- To help the participants in working with various tools required for ML and DL
- To get an idea for further research in ML and DL

The AICTE-ISTE approved STTP was conducted from 07th May, to 11th May, 2018 in , Computer Engineering Department, VIVA Institute of Technology. The inauguration was attended by Principal Dr. B. K. Mohan, Dr. Sanjay Shitole , Dr. Arun Kumar, and all other participants.

Details of all the resource person is as given below.

Sr. No.	Name	Designation	Organisation
1	Dr. B K Mohan	Professor	IIT Bombay
2.	Dr. Sanjay S. Shitole	Head of the Department and Associate Professor in Department of Information Technology	Usha Mittal Institute of Technology for Women, S.N.D.T. Women's University, Mumbai.
3.	Mr. Santosh Chapaneri	Assistant Professor	St. Francis Institute of Technology
4.	Mr. Divesh Kubal	Senior Machine Learning & Deep Learning Engineer.	eClerx Services
5.	Mr. Santosh Panigrahi	Artificial Intelligence Analyst	GrayMatrix Solutions

Detailed contents which were covered in the STTP are mentioned below.

Sr. No.	Date	Topics Covered
1	07 th May 2018	Basics of Machine Learning and Deep Learning, Introduction to ANN and CNN.
2	08 th May 2018	Introduction to Python using Jupyter Notebook, Machine Learning Algorithms, Data Analytics,
3	09 th May 2018	Deep learning: concepts and its applications , Word embedding in NLP, Prediction with CNN.
4	10 th May 2018	Parameter Tuning, Introduction to R(Data frame, Importing and Exporting Data, Data manipulation.
5	11 th May 2018	Revision of the learned contents, Training evaluation test & Validatory function.

All the speakers were well received by the attendees. The attendees gave very good feedback for to all the speakers. A total of 23 participants participated in the One week AICTE-ISTE approved training programme.