



“Techno-Social Excellence”  
**Marathwada Mitramandal's**  
**INSTITUTE OF TECHNOLOGY (MMIT)**  
Lohgaon, Pune-47  
Accredited ‘A’ Grade by NAAC

“Towards Ubiquitous Computing Technology”  
**Department of Computer Engineering**  
(Academic Year 2020-21)

## Hands on Workshop

On

### “Machine learning with real Time Project Development and Cloud Deployment”

Held on  
26<sup>th</sup> March to 27<sup>th</sup> March 2021

*30/03/2021*  
**Coordinator**  
Prof. Tejaswini S. Bhowe

*30/03/2021*  
**HOD**  
Mr. S. G. Rathod



## **Workshops Details**

**Subject:** Machine learning with real Time Project Development and Cloud Deployment.

**Attendee:** 15 BE/TE Computer Engineering Students

**Organized By:** Department of Computer Engineering, MMIT, Lohgaon-411 047

**Date:** 26<sup>th</sup> March to 27<sup>th</sup> March 2021

**Registration fees:** Rs. 200/-

### **Resource Persons:**

**Name:** Mr. Yogesh Murumkar

**Company Details:** Director of Bharat Soft Solution, Pune

### **Objectives of the Workshop**

The objective of this workshop introduces fundamental concepts of machine learning. It covers an overview of machine learning algorithms and their applications.

### **Program Outcomes**

- Proper understanding of basics concept of Machine Learning.
- Students are able to understand & learn the concepts of machine learning and its applications.

**Speech:** Mr. Yogesh Murumkar, Director of Bharat Soft Solution, Pune

### **Introduction:**

Machine learning is an exciting topic about designing machines that can learn from examples. The course covers the necessary theory, principles and algorithms for machine learning. The methods are based on statistics and probability, which have now become essential to designing systems exhibiting artificial intelligence.

### **Session by Mr. Yogesh Murumkar**

Mr. Yogesh Murumkar covered the theory as well as hands on assignments on Machine Learning using python. He has started with the basic of python concept and ML Framework and conducted hands on practices and motivated the students to accept challenges in future during this course.

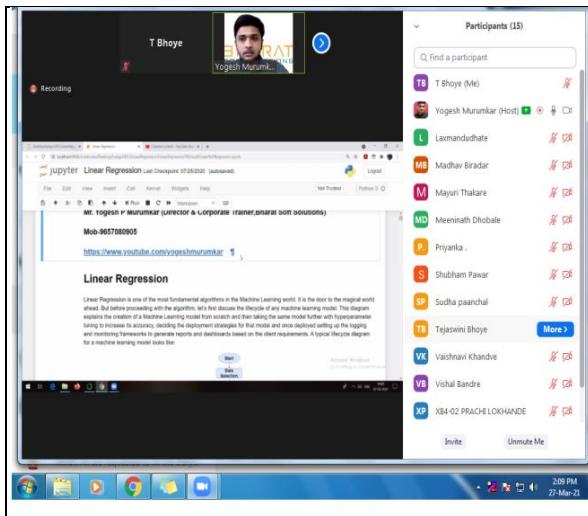
**Topic Covered:**

Sr.No	Topic
1	Environment Set-Up
2	Anaconda and Jupyter Overview with steps for installation
3	Hands on Python Basics
4	Discussion of Python Packages for Machine Learning
5	Python for Data Analysis – NumPy
6	Python for Data Analysis – Pandas
7	Python for Data Analysis – Pandas Exercises
8	Python for Data Visualization – Matplotlib
9	Python for Data Visualization – Seaborn
10	Python for Data Visualization – Pandas Built-in Data Visualization
11	Python for Data Visualization – Plotly and Cufflinks
12	Python for Data Visualization – Geographical Plotting
13	Data Project/Use Cases/Creating applications using Python
14	Introduction to Machine Learning
15	Linear Regression
16	Cross Validation and Bias-Variance Trade-Off
17	Logistic Regression
18	K Nearest Neighbors
19	Decision Trees and Random Forests
20	Support Vector Machines
21	K Means Clustering
22	Principal Component Analysis
23	Recommender Systems
24	Natural Language Processing
25	Big Data and Spark with Python
26	Neural Nets and Deep Learning
27	Implementation and use of Tensorflow
28	Real Time Projects in Python and Machine Learning

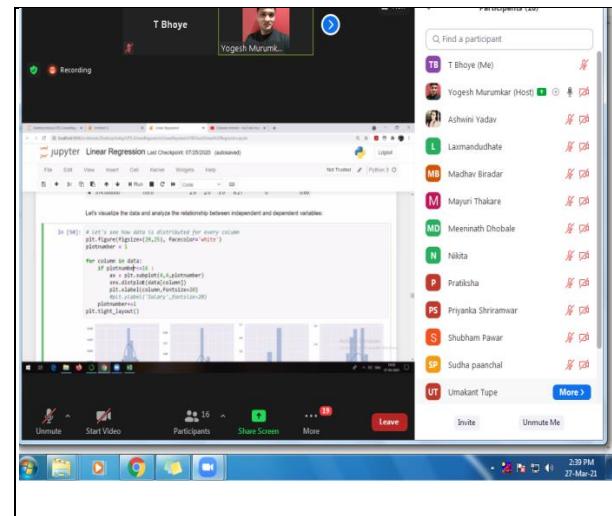
He has covered almost important topics related to Machine Learning as point of industry oriented also. He is provided the additional knowledge/tips to students related how to install Pycharm IDE and anaconda Navigator on windows. This workshop conducted for two days daily in 2 hours. The certificate is issued to those students are registered to this workshop. On behalf of MMIT & Management, Computer Department, Prof Tejaswini S.Bhoye gave the vote of thanks expressing the gratitude towards person Mr.Yogesh Murumkar for sparing his valuable time & guidance to our students from his busy schedule.

**Enclosure**

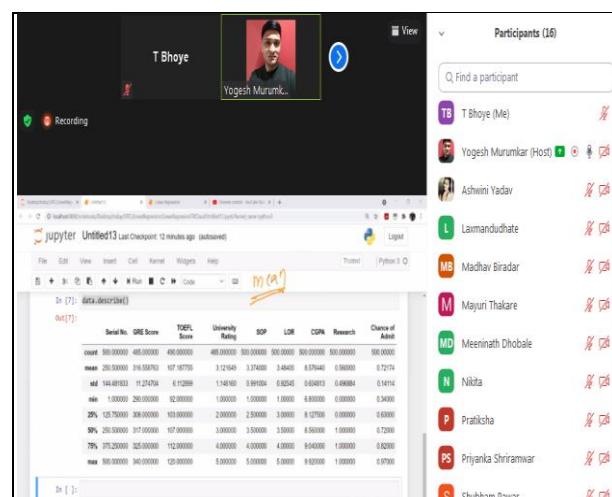
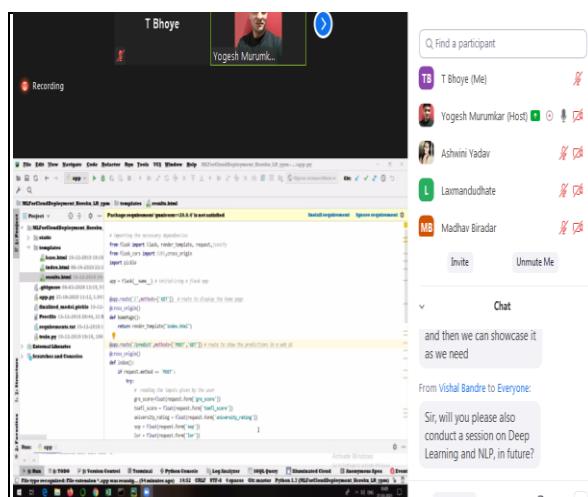
1. Online Sessions photos
2. Sample E Certificate
3. Register students list



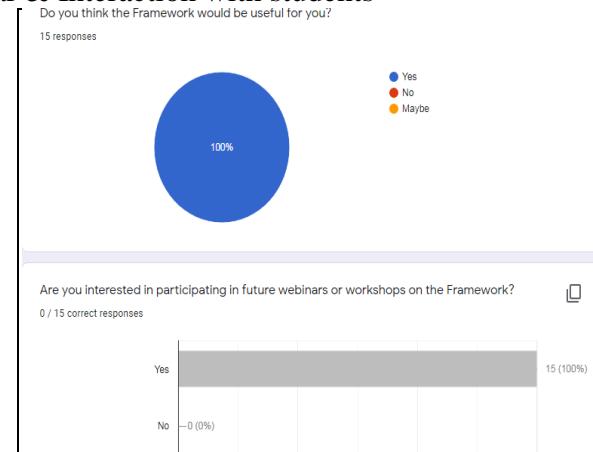
Session by Mr. Yogesh Murumkar Day-1



Session by Mr. Yogesh Murumkar Day-2



Speech by Mr. Yogesh Murumkar & Interaction with students



Feedback taken from Students



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**CERTIFICATE OF COMPLETION**

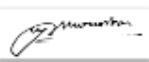
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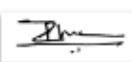
has attended the Two days workshop on

**"Hands on Machine Learning with Real Time project Development Cloud Deployment."**

Organise by Department of Computer Engineering, Marathwada Mitra Mandal Institute of  
 technology (MMIT), Lohegaon, Pune-47, from 26th March to 27th March 2021.



Mr.Yogesh Murumkar  
 Bharat Soft Solution, Pune



Prof.Tejaswini S.Bhowe  
 Coordinator



Prof.S.G.Rathod  
 HOD, Computer



Dr.Rupesh Bhortake  
 Principal,MMIT,Pune

**Sample E Certificate**



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 Approved by AICTE, New Delhi, Recognised by DTE, M.S. Mumbar, Affiliated to Savitribai Phule Pune University  
 Email : principal@mmit.edu.in Website : www.mmit.edu.in  
 Tel No. : +91 7447786623 / +91 7447786624 DTE Institute Code : 6203



**Machine Learning Workshop Attendance (A.Y. 2020-21)**

Date: 26th March 2021 & 27th March 2021

Sr.No	Class& Div	Name of Student	Contact No.	Personal Email ID	Collage Email ID
1	BE-B	Nikita Balasaheb Arsule	7776836326	nikki.arsule308@gmail.com	nikita.arsule@mmit.edu.in
2	BE-B	Priyanka Shankarrao Shriramwar	7709289368	priyankashriramwar1998@gmail.com	priyanka.shriramwar@mmit.edu.in
3	BE-B	Pawar Pradip Vinayak	9130439041	pradipvpawar111@gmail.com	pradip.pawar@mmit.edu.in
4	BE-A	Ashwini Yadav	9325164879	ashwiniyadav0510@gmail.com	ashwini.yadav@mmit.edu.in
5	BE-B	Prachi Lokhande	9726927881	lprachi6@gmail.com	prachi.lokhande@mmit.edu.in
6	TE	Bandre Vishal Dadasaheb	9146614034	vshlbndr@gmail.com	vishal.bandre@mmit.edu.in
7	TE	Meeninath Dhobale	9325901116	dhibale53@gmail.com	meeninath.dhobale@gmail.com
8	BE-B	Pratiksha Lohar	7414959570	pratiksha.lohar17399@gmail.com	pratiksha.lohar@mmit.edu.in
9	BE-A	Dudhate Laxman ramrao	7066133309	laxmandudhate82@gmail.com	laxman.dudhate@mmit.edu.in
10	BE-A	Vaibhav choure	9096971109	Vaibhavchoure22@gmail.com	Vaibhav.choure@mmit.edu.in
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13	TE	Sudha manohar panchal	9172575052	sudham.p.666@gmail.com	sudha.panchal@mmit.edu.in
14	TE	Vaishnavi Ramesh Khandve	7620166229	vaishnavikhandve1234@gmail.com	vaishnavi.khandve@mmit.edu.in
15	BE-B	Shubham Balaji Pawar	9146187027	shubhampawar942087@gmail.com	shubham.pawar.2018@mmit.edu.in



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"Towards Ubiquitous Computing Technology"

## **Department of Computer Engineering** INVITATION

FOR  
**Two days online Hands on workshop**  
On  
**"Machine Learning with real Time Project  
Development and Cloud Deployment"**

**26<sup>TH</sup> Mar.2021 | 2 PM- 4 PM**

**27<sup>TH</sup> Mar.2021 | 10 AM- 12 PM**

**PLATFORM: Zoom**

Registration link:

<https://docs.google.com/forms/d/1UEGiSL8w5YlVDgXNnhVwFFnpLK4A7MOB6gWmGtGjJtc/edit>

Registration fees: Rs. 200/-

**Resource Person**

Mr. Yogesh Murumkar , Director of Bharat Soft Solution, Pune.