A Report on

Webinar On

Python and Emerging Trends in Machine Learning

2nd June 2020

Submitted by **Dr. K Dinesh**, Assistant Professor, Department of CST.

Resource Person details:

Resource Person: **Dr. V.P Gladis Pushparathi**

Designation: **Associate Professor**

Department: **CSE**

Organization: **Velammal Institute of Technology, Chennai**

Participants: **III year CST**

Attendance: **52** participants (Internal)

Mode: **Online**

Department of Computer Science and Technology, has organized Webinar on **"Python and Emerging Trends in Machine Learning"** on **02-06-2020** (Tuesday), **10:00 am.**

Objective:

The aim of this Webinar is that students have to know about Python Programming language, trends in Machine Learning, Applications, its usage with practical implementation.

The Programme started at 10:00 am by **Ms. T. Madhuri,** with a grand welcome to the Resource Person, HOD, Faculty members and participants.

The webinar Coordinator, **Dr. K. Dinesh,** Assistant Professor, Department of CST, MITS, Madanapalle conveyed his sincere thanks to the Resource person, Management, Principal, Vice Principals, Deans, all the HODs, Faculty members for giving this opportunity for conducting Online guest lecture. Then he invited HOD, Department of CST to address the gathering.

Dr. M. Sreedevi, HOD, Department of CST heartily invited Resource person for the Online Guest lecture. She discussed few things about Python Programming, Emerging trends in Machine Learning like AutoML, Deep Learning and their applications.

Ms. Y GreeshmaSree, III Year Student, Department of CST read the profile of Resource person **Dr. V.P. Gladis Pushparathi,** Associate Professor, Department of CSE, Velammal Institute of Technology, Chennai. She handed over the session to the Resource person.

The **Resource person** (Dr. V.P. Gladis Pushparathi) joined online and she has started the session by extending his heartily thanks to the participants organizing members, HOD, Principal and Management of MITS, Madanapalle for giving him opportunity to share his knowledge and experience in **" Machine Learning "**.

The resource Person delivered Webinar on the following topics:

1. Introduction to Python for Machine Learning
2. Overview of Emerging Trends in Machine Learning
3. AutoML: Automating Machine Learning Processes
4. Deep Learning with TensorFlow and PyTorch
5. Explainable AI (XAI) with Python
6. Edge AI: Deploying Machine Learning Models on Edge Devices
7. Federated Learning: Collaborative Machine Learning with Python
8. Quantum Machine Learning with TensorFlow Quantum and Qiskit
9. ML Ops: Managing the Machine Learning Lifecycle with MLflow and Kubeflow
10. Case Studies: Real-World Applications of Python in Machine Learning
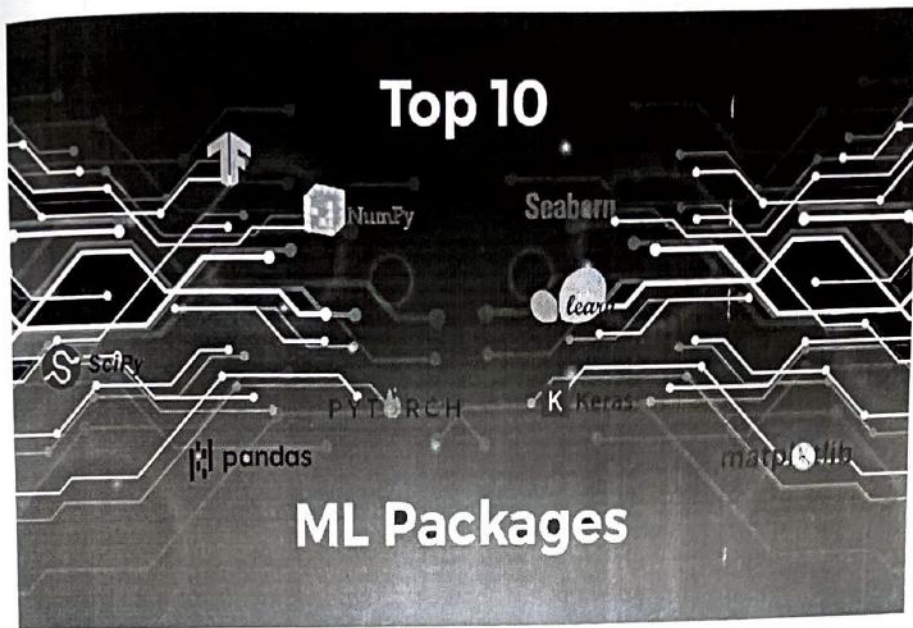
Queries and Feedback session:

- Students asked queries on Python Programming, Why it is emerging trend? and its related areas, Resource person answered for all those queries.
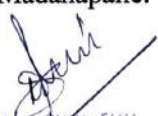- Students given feedback on the online guest lecture and said they felt happy for involving in this type of session as they got clear picture about emerging trends in Machine Learning.

Take away from session:

- Students understood the Basics, areas and Importance of Python Programming
- Students know emerging trends in Machine Learning.
- Students got the idea of how write the code for Machine Learning Applications using Python.

The session ended by **Dr. M. Sreedevi, Professor, Head of the Department, MITS,** thanking the resource person, faculty members and students and expressed her gratitude to the Management and Principal for giving permission and financial support to organize this programme.

Vote of Thanks: The session was concluded at 12:00 pm followed by a vote of thanks, given by **Dr. K. Dinesh**, Assistant Professor, Department of CST, MITS, Madanapalle.

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