

2-DAYS Workshop On Machine Learning Using Python

Date- To be decided

Registration amt- Rs. 100/-

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Title- Machine Learning Using Python

Python Basics and Environmental Setup

- Introduction to AI and Machine Learning
- Application Areas
- Python and Anaconda Environment Installation: Jupyter Notebook
- Basics of Python
- Data Types- Numbers, String, Tuple, Dict.
- Functions, Operators & Control Flow
- Libraries used in ML- Numpy, Pandas, Matplotlib
- Numpy and Matplotlib Operations

Machine Learning Introduction and Exploring Data Sets

- Introduction to Machine Learning and Its types
- Perform operations using Data Types and Operators
- How to get accurate datasets
- How to use your dataset for machine learning?
- Introductions to Pandas
- Pandas Operations
- Data Collection and cleaning using Pandas
- Making a Data Pre-processing Template
- Introduction to Data Visualisation using Matplotlib
- **Hands-on Exercise** – How to import NumPy module, importing a dataset , pre-processing the dataset and creating visualisations

Regression and Classification in Machine Learning

- Supervised Learning: Regression vs Classification
- Linear regression theory

- Linear regression project using statistics
- Linear regression project using machine learning libraries • Decision Tree Classification theory
- Linear regression project using machine learning libraries
- Hands-on Exercise – working on importing data from .csv files, selecting record by a group, data pre-processing, viewing records, analysing with linear regression/classification with decision tree.