

Machine Learning Using Python

MENTORTCA TECHNOLOGY PVT. LTD.

GET TRAINED BY INDUSTRY EXPERTS

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Python

NumPy, Pandas

Machine Learning

Supervised Learning

Unsupervised Learning

Project



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Machine Learning Using Python

Python

Python Training

- Introduction to Python
- Installation of Python
- Python programs using Spyder, Command Prompt
- Working with Jupyter Notebooks
- Python Variables & Operators
- Basic Data containers: Lists, Dictionaries, Tuples & sets

Iterative Operations & Functions in Python

- For Loops in Python
- List & Dictionary Comprehension
- While loops and conditional blocks
- List/Dictionary using loops
- Functions in Python
- User Define Classes & Functions

Data Summary: Numerical and Visual in Python

- Need for data summary
- Summarising numeric data in pandas
- Summarising categorical data
- Group wise summary of mixed data
- Need for visual summary
- Introduction to ggplot & Seaborn
- Visual summary of different data combinations

Data Handling in Python using NumPy & Pandas

- Introduction to NumPy arrays, functions & properties
- Introduction to pandas
- Dataframe functions and properties
- Reading and writing external data
- Manipulating Data Columns



Machine Learning Using Python

Machine Learning

An Introduction to Machine Learning

- Introduction
- What is Machine Learning?
- Types and Applications of ML
- AI vs ML
- Essential Math for ML and AI

Supervised Learning

- Introduction to Supervised Learning
- Linear Methods for Classification
- Linear Methods for Regression
- Support Vector Machines
- Basis Expansions
- Model Selection Procedures

Unsupervised Learning

- Introduction to Unsupervised Learning
- Association Rules
- Cluster Analysis
- Reinforcement Learning

Neural Networks

- Introduction to Neural Networks
- The Perceptron
- The Backpropagation Algorithm
- Training Procedures
- Convolutional Neural Networks

Real World Machine Learning

- Introduction to Real World ML
- Choosing an Algorithm
- Design and Analysis of ML Experiments
- Common Software for ML

Final Project