

# Appleton Innovations

Recognized by



Ministry of MSME, Govt. of India



## Machine Learning Training

We designed this Machine Learning Training course to bridge the gap between the academic and industry need. In this course, learn Python and most important Machine Learning algorithms to build predictive models. Build more than 10 Machine Learning Projects in this course.

### Syllabus

#### Module-1: Introduction to Machine Learning

- What is Machine Learning
- Use cases of Machine Learning
- Types of Data
- Different types of Machine Learning
- Python Concepts
  - Sequences and Iteration
  - Booleans and Conditionals
  - Functions & Modules
  - Python Data Structures
  - Overview of OOPs
  - Creating Classes
  - Creating Instance Objects

## **Module-2: Maths and statistics for Machine Learning**

### 1. Mathematics

- Linear Algebra

### 2. Statistics

- Central Tendency Vs Dispersion
- Percentiles
- Dependant variable, Independent variable
- Types of data
- Outliers
- Understanding data

## **Module-3: Machine Learning tools & packages**

### 1. What is Machine Learning

- Numpy
- Pandas
- Scikit-learn

### 2. Data Processing

### 3. Data Visualization

- Introduction to Data Visualization
- Introduction to Matplotlib
- Basic Plotting with Matplotlib, Seaborn

### 4. Pre-processing Data using machine learning tools

## **Module-4: HTTP API Requests**

### 1. HTTP Requests

- http methods
- REST API's
- Requests modules

### 2. WeatherAPI

- Using Python requests to access weather data
- Working with JSON data

## **Module-5 : Recommendation systems**

### 1. Introduction to Recommendation systems

### 2. Movie Recommendation systems

### 3. Restaurant Recommendation systems

## **Module-6 : Introduction to Regression Algorithms**

### 1. Linear Regression

### 2. Multiple Linear Regression

### 3. Polynomial Regression

### 4. Decision Tree

## Module-7: Introduction to Classification algorithms

1. Logistic Regression
2. K-Nearest Neighboring
3. Naive-Bayes
4. Decision Tree
5. Model Evaluation

## Module-8: Deploying Machine Learning Model using Flask

1. Web Development using HTML and CSS
2. Web Application using Flask and Python
3. Deploying ML Model using Flask Framework
4. Practice Project

# Tools



# Course Projects, Industry Projects

## Uber

Fare Prediction for Uber



Income qualification prediction



Zomato Restaurant Recommendation System



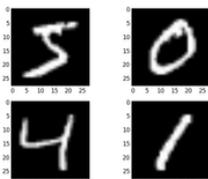
Predicting California House Prices with Regression



Movie Recommendation System



SMS Spam filtering



Classifying Handwritten Digits using MNIST Dataset



Iris Flower Classification



Predicting survival on the Titanic



Graduate Admission Prediction

- Get Trained by Trainers from IIT Alumni
- 40 + hours of live online sessions
- Recorded Videos
- 5 + projects
- 40+ Hours of practical Assignments
- Dedicated mentoring sessions from industry experts
- Certification

## **Training Duration:**

50+ hours

## **Training Fee:**

RS 5300/- per student

**For more details:**

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