



IT Expert
TECHNOLOGY



Machine Learning *(Complete Course)*

NOW YOU CAN CODE

100% PLACEMENT



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An Overview

Machine learning courses focus on teaching individuals the principles, techniques, and applications of machine learning, which is a subset of artificial intelligence (AI). These courses typically cover topics such as data preprocessing, feature selection, model training and evaluation, and various machine learning algorithms and Machine Learning Projects etc.

Introduction

- ✓ Introduction to Machine Learning
- ✓ Introduction to Data in Machine Learning
- ✓ Applications of Machine Learning
- ✓ Best Python libraries for Machine Learning
- ✓ Difference Between ML & AI
- ✓ Difference Between ML & DL

Data Processing

- ✓ Understanding Data Processing
- ✓ Generate Test Datasets for Machine learning
- ✓ Overview of Data Cleaning
- ✓ Feature Scaling – Part 1
- ✓ Feature Engineering- Scaling, Normalization, and Standardization
- ✓ Label Encoding in Python
- ✓ One Hot Encoding in Machine Learning

Machine Learning Math

- ✓ Linear Algebra Operations
- ✓ Linear Regression in Machine learning
- ✓ Mathematics Mean, Variance and Standard Deviation
- ✓ Understanding Hypothesis Testing
- ✓ Find a matrix or vector norm using NumPy
- ✓ Separating Hyperplanes in SVM



Supervised Learning

- ✓ Types of Supervised learning
- ✓ Classification vs Regression in Machine Learning
- ✓ Getting started with Classification
- ✓ Basic Concept of Classification (Data Mining)
- ✓ Types of Regression Techniques in ML
- ✓ Gradient Descent algorithm and its variants
- ✓ Getting started with Classification
- ✓ Logistic Regression using Python
- ✓ Why Logistic Regression in Classification
- ✓ Introduction to Support Vector Machines (SVM)
- ✓ Decision Tree

Unsupervised Learning

- ✓ Supervised and Unsupervised learning
- ✓ Clustering in Machine Learning
- ✓ Different Types of Clustering Algorithm
- ✓ K means Clustering – Introduction
- ✓ Fuzzy Clustering

Dimensionality Reduction

- ✓ Introduction of Dimensionality Reduction
- ✓ Approaches of Dimension Reduction
- ✓ Under fitting and Over fitting
- ✓ Common techniques of Dimensionality Reduction

Natural Language Processing

- ✓ Introduction to Natural Language Processing
- ✓ Text Preprocessing in Python Set – 1
- ✓ Text Preprocessing in Python Set 2
- ✓ Removing stop words with NLTK in Python
- ✓ Stemming words with NLTK
- ✓ Lemmatization with NLTK
- ✓ Lemmatization with TextBlob

Neural Networks

- ✓ Introduction to Artificial Neural Networks
- ✓ Artificial Neural Networks (Network Architectures)
- ✓ Activation functions in Neural Networks

Numpy

- ✓ Introduction
- ✓ Creating numpy array
- ✓ Numpy array manipulation
- ✓ Matrix in numpy
- ✓ Operations on numpy
- ✓ Reshaping numpy array
- ✓ Arithmetic Operation on numpy
- ✓ Sorting and searching in numpy



Pandas

- ✓ Introduction
- ✓ Creating objects
- ✓ Viewing data
- ✓ Manipulating data
- ✓ Selection
- ✓ Working with text data
- ✓ Working with csv & Excel files
- ✓ Data analysis using pandas

Python GUI

- ✓ Importing the module
- ✓ Python simple calculator using tkinter
- ✓ Simple Registration form using tkinter
- ✓ Simple Login form using tkinter
- ✓ Python GUI – tkinter

Working with Database

- ✓ Inserting Variables
- ✓ Mysql connection
- ✓ Python database management
- ✓ SQL using python SQLite

Django Framework

- ✓ Django basic
- ✓ Views in django
- ✓ Django URLs
- ✓ Django Template
- ✓ Django Forms
- ✓ Django models
- ✓ Django projects

Deployment

- ✓ Deploy a Machine Learning Model using Streamlit Library
- ✓ Deploy Machine Learning Model using Flask

Machine Learning Projects

- ✓ Disease Prediction Using Machine Learning
- ✓ Predicting Stock Price Direction using Support Vector Machines
- ✓ Face and Hand Landmarks Detection using Python – Mediapipe, OpenCV
- ✓ Wine Quality Prediction – Machine Learning
- ✓ Human Activity Recognition
- ✓ Twitter Sentiment Analysis

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