CODING PRO ACADEMY

MACHINE LEARNING

Learn • Train • Predict • Deploy

Learn to build, train and deploy machine learning models with Python, from data handling and algorithms to neural networks and industry projects.



DURATION **[X] MONTHS**

COURSE CURRICULUM

TOPICS	SUB TOPICS	
1 Introduction to Machine Learning	Introduction to Artificial Intelligence Types of Machine Learning Applications of Machine Learning	Introduction to Machine Learning Machine Learning Workflow
2 Python Libraries & Data Handling	NumPy Fundamentals Data Visualization using Matplotlib Scikit-learn Fundamentals	Pandas for Data Analysis Data Visualization using Seaborn
3 Data Analysis & Feature Engineering	Data Collection Handling Missing Values Feature Engineering	Data Cleaning Exploratory Data Analysis (EDA) Data Preprocessing
4 Machine Learning Algorithms	Linear Regression K-Nearest Neighbors (KNN) Random Forest Model Evaluation Metrics	Logistic Regression Decision Trees Support Vector Machine (SVM)
5 Deep Learning Fundamentals	K-Means Clustering Principal Component Analysis (PCA) Gradient Boosting & XGBoost	Hierarchical Clustering Ensemble Learning
6 Computer Vision & Natural Language Processing	Artificial Neural Networks (ANN) Convolutional Neural Networks (CNN) Image Classification & Text Classification	TensorFlow & Keras Natural Language Processing (NLP)
7 Model Deployment	Model Serialization (Pickle & Joblib) Streamlit Deployment Deploying Machine Learning Models	Flask Deployment Introduction to MLOps
8 Industry Projects	House Price Prediction Loan Approval Prediction Image Classification Project	Customer Segmentation Spam Detection End-to-End Machine Learning Project

ONLINE & OFFLINE LEARNING | **CERTIFICATE AVAILABLE** | **LED BY IIT / IIM ALUMNI** | **AI INTERVIEW & RESUME BUILDER**

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