

Since 2007, Making IT Experts & Products

Course: Machine Learning & Deep Learning

Duration: 1000 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, Salesforce, Sap
- Microsoft Excel
- Ethical Hacking



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Syllabus on the Next Page ..



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Introduction to Machine Learning

- * Introduction to Artificial Intelligence
- * Machine Learning Fundamentals
- * Types of Machine Learning
- * Real-World Applications

Python for Machine Learning

- * Python Basics
- * NumPy
- * Pandas
- * Matplotlib & Seaborn

Data Preprocessing

- * Data Cleaning
- * Handling Missing Values
- * Feature Scaling
- * Encoding Categorical Data

Exploratory Data Analysis

- * Data Visualization
- * Correlation Analysis
- * Feature Selection
- * Outlier Detection

Supervised Learning

- * Linear Regression
- * Logistic Regression

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- * Decision Trees
- * Random Forest
- * Support Vector Machines (SVM)
- * k-Nearest Neighbors (KNN)

Unsupervised Learning

- * K-Means Clustering
- * Hierarchical Clustering
- * DBSCAN
- * Principal Component Analysis (PCA)

Model Evaluation

- * Train-Test Split
- * Cross Validation
- * Confusion Matrix
- * Accuracy, Precision, Recall & F1 Score

Introduction to Deep Learning

- * Artificial Neural Networks
- * Perceptron
- * Activation Functions
- * Forward & Backpropagation

TensorFlow & Keras

- * TensorFlow Basics
- * Keras API

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- * Building Neural Networks
- * Model Training & Evaluation

Deep Learning Architectures

- * Convolutional Neural Networks (CNN)
- * Recurrent Neural Networks (RNN)
- * LSTM & GRU
- * Transfer Learning

Computer Vision

- * Image Classification
- * Object Detection Basics
- * Image Augmentation
- * OpenCV Introduction

Natural Language Processing

- * Text Preprocessing
- * Tokenization
- * Word Embeddings
- * Text Classification

Model Deployment

- * Model Serialization
- * Flask/FastAPI Integration
- * REST API Development
- * Deployment Basics

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Real-World Projects

- * House Price Prediction
- * Customer Churn Prediction
- * Sentiment Analysis
- * Image Classification System
- * Face Mask Detection
- * Recommendation System

(Click on Course for more details)

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- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

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