

Since 2007, Making IT Experts & Products

Course: AI, ML & React.js

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



Syllabus on the Next Page ..



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Introduction

from beginner to advanced level. The course covers Python programming, Artificial Intelligence, Machine Learning, Data Science, and Cloud Computing. The course is designed to provide a comprehensive understanding of the field and to equip students with the skills needed to succeed in the industry.

Course Syllabus

Month 1: Python Programming & Artificial Intelligence Fundamentals

Python Programming

- * Introduction to Python Programming
- * Python Installation and Development Environment
- * Variables and Data Types
- * Operators and Expressions
- * Conditional Statements
- * Loops and Control Statements

Functions and Modules

- * Lists, Tuples, Sets, and Dictionaries
- * File Handling
- * Exception Handling

Object Oriented Programming

- * Class and Object
- * Constructor
- * Inheritance
- * Encapsulation
- * Polymorphism

Artificial Intelligence Basics

- * Introduction to Artificial Intelligence

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- * History and Evolution of AI
- * Types of AI
- * AI Applications in Real World
- * Machine Learning and Deep Learning Overview

Month 2: Data Science & Machine Learning

Data Science Fundamentals

- * Introduction to Data Science
- * Data Science Life Cycle
- * Data Collection and Data Processing
- * Data Cleaning Techniques
- * Data Analysis Concepts

Python Libraries for Data Science

- * NumPy for Numerical Computing
- * Pandas for Data Analysis
- * Matplotlib for Data Visualization
- * Seaborn Visualization

Machine Learning

- * Introduction to Machine Learning
- * Supervised Learning
- * Unsupervised Learning
- * Regression Algorithms
- * Linear Regression

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- * Logistic Regression
- * Classification Algorithms
- * Decision Tree Algorithm
- * Random Forest Algorithm
- * K-Means Clustering
- * Model Training and Evaluation

Month 3: React.js Frontend Development

Web Development Fundamentals

- * HTML5 Basics
- * CSS3 Styling
- * Responsive Web Design
- * JavaScript ES6 Concepts
- * DOM Manipulation

React.js Fundamentals

- * Introduction to React.js
- * React Environment Setup
- * Components and JSX
- * Props and State
- * Event Handling
- * Conditional Rendering
- * Forms Handling
- * React Hooks

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- * useState and useEffect

- * React Router

Advanced React Development

- * API Integration

- * Axios Library

- * State Management Concepts

- * Authentication in React

- * Creating Interactive User Interfaces

Month 4: AI Integration & Final Projects

AI Application Development

- * Machine Learning Model Integration

- * Connecting AI Models with Web Applications

- * REST API Development

- * Flask/FastAPI Introduction

- * Deploying Machine Learning Models

AI Based Applications

- * AI Chatbot Development

- * Recommendation System

- * Image Recognition Application

- * Prediction-Based Applications

- * AI Dashboard Development

Final Capstone Projects

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- * AI Chatbot using React.js
- * Face Recognition Attendance System
- * AI Resume Analyzer
- * Movie Recommendation System
- * Sales Prediction Dashboard
- * Smart AI Web Application

Tools and Technologies

- * Python
- * Machine Learning
- * Artificial Intelligence
- * NumPy, Pandas, Matplotlib
- * Scikit-learn
- * TensorFlow/Keras
- * HTML, CSS, JavaScript
- * React.js
- * REST API
- * Flask/FastAPI
- * Git and GitHub

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(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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