

Since 2007, Making IT Experts & Products

Course: AI ML ROBOTICS

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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1000+ Success Stories

Syllabus on the Next Page ..



Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

+91 9895490866

+91 8301010866

join@nestsoft.com

www.nestsoft.com

Introduction

Starting from scratch, this 4-month full-time, live online, hands-on training program will help you learn Python programming, AI, ML, and Deep Learning concepts and a

4-Month Syllabus

Month 1: Python Programming & AI Fundamentals

- * Introduction to Artificial Intelligence
- * History, Types, and Applications of AI
- * Python Installation and Development Environment
- * Variables, Data Types, Operators
- * Conditional Statements and Loops

Functions and Modules

- * Lists, Tuples, Dictionaries, and Sets
- * File Handling and Exception Handling
- * Mini Python Projects

Month 2: Machine Learning Fundamentals

- * Introduction to Machine Learning
- * Data Collection and Data Preprocessing
- * NumPy and Pandas
- * Data Visualization using Matplotlib
- * Supervised Learning
- * Unsupervised Learning
- * Regression and Classification
- * Model Training and Evaluation
- * Scikit-learn Basics

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- * Machine Learning Mini Projects

Month 3: Robotics & Computer Vision

- * Introduction to Robotics
- * Robot Components and Architecture
- * Sensors and Actuators
- * Arduino Programming Basics
- * Motor Control and Servo Motors
- * Ultrasonic and IR Sensors
- * Computer Vision with OpenCV
- * Face Detection and Object Detection
- * Voice-Controlled Robot Concepts
- * Robotics Practical Sessions

Month 4: AI Projects & Advanced Robotics

- * Introduction to Deep Learning
- * Neural Networks Basics
- * Image Classification
- * Natural Language Processing Basics
- * IoT Integration with Robotics
- * Smart Automation Projects
- * AI Chatbot Development
- * Capstone AI & Robotics Project
- * Project Presentation

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- * Final Assessment and Certification

Projects Included

- * Face Recognition Attendance System
- * Obstacle Avoiding Robot
- * Line Following Robot
- * AI Chatbot
- * Object Detection System
- * Smart Home Automation
- * Image Classification Project
- * IoT-Based Smart Robot

(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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