TechnoMaster

NESTSOFT

Since 2007, Making IT Experts & Products

Course: Forward Deployed Engineering (FDE)

Duration: 120 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster Pvt Ltd 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 JobsHybrid.com**

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 ..



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

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Fundamentals of Forward Deployed Engineering

- Introduction to Forward Deployed Engineering
- FDE Architecture and Engineering Principles
- Understanding Client and Business Requirements
- Technical Problem-Solving Strategies
- Solution Design and Implementation

Advanced Python Engineering

- Python Programming and Advanced Concepts
- Object-Oriented and Functional Programming
- Asynchronous Programming
- Python Frameworks and Libraries
- Backend Application Development

Modern Web Application Development

- Frontend Development with React
- Backend Development with Django or FastAPI
- Full Stack Application Architecture
- Authentication and Authorization
- Application Performance Optimization

API and Enterprise Integration

- RESTful API Design
- GraphQL Fundamentals
- API Gateways and Authentication
- Webhook Development and Integration

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- Enterprise Software Integration

AI Engineering and LLM Applications

- Generative AI Fundamentals
- LLM Architecture and Applications
- Prompt Engineering Techniques
- OpenAI and Other LLM APIs
- Retrieval-Augmented Generation (RAG)
- Vector Databases and Embeddings

Agentic AI and Intelligent Automation

- AI Agent Development
- LangChain and LangGraph
- Model Context Protocol (MCP)
- Tool Calling and Function Calling
- Multi-Agent Collaboration
- AI Workflow Automation

Cloud Native Engineering

- Cloud Architecture Fundamentals
- AWS, Azure or Google Cloud Basics
- Application Hosting and Deployment
- Serverless Computing
- Cloud Security and Monitoring

DevOps and Production Engineering

- Git and GitHub Workflows
- Docker and Container Management
- Kubernetes Fundamentals
- CI/CD Pipeline Implementation
- Infrastructure as Code Fundamentals
- Production Monitoring and Logging

Data Engineering and Databases

- Relational Database Management
- PostgreSQL and MongoDB
- Database Optimization
- Data Pipelines and Integration
- Vector Search and Data Retrieval

Security and Software Quality

- Application Security Fundamentals
- Secure API Development
- Automated Software Testing
- AI Application Evaluation
- Debugging and Performance Testing

Capstone Projects and Industry Applications

- Develop an AI-Powered Business Application
- Build an Intelligent Customer Support Agent
- Integrate Enterprise APIs and Databases

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- Deploy Applications on Cloud Infrastructure
- Implement an Automated CI/CD Pipeline
- Build and Deploy an End-to-End AI Solution

(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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