



MERN STACK DEVELOPMENT + AI

9-12 MONTHS TRAINING PROGRAM

MERN STACK DEVELOPMENT + AI PROGRAM FLOW

MERN STACK DEVELOPMENT

PROGRAMMING & WEB FUNDAMENTALS

- Computer & Internet Basics
- Web Architecture
- HTTP / HTTPS
- Client-Server Model

WEB FOUNDATIONS (HTML5 & CSS3)

- HTML Structure & Semantic Elements
- Forms, Lists, Tables, Media
- CSS Styling
- Flexbox & Grid
- Responsive Web Design

JAVASCRIPT (CORE + ES6)

- Variables & Data Types
- Functions, Loops & Conditions
- DOM Manipulation
- Events & Form Validation
- ES6 Concepts
- APIs & Fetch
- Local Storage & Error Handling

REACT.JS

- Introduction to React
- JSX & Components
- State Management
- React Hooks
- Routing

BACKEND DEVELOPMENT WITH NODE.JS

- Introduction to Node
- Node.js Basics
- NPM & Modules
- Server Creation
- RESTful APIs

EXPRESS.JS

- Express Framework
- Routing
- Middleware
- Authentication Basics

MONGODB (DATABASE)

- NoSQL Concepts
- MongoDB CRUD Operations
- Mongoose
- Database Design

AUTHENTICATION & SECURITY

- User Authentication
- Authorization
- JWT Authentication
- Password Encryption
- API Security Best Practices
- Environment Configuration & Error Handling

GIT & GITHUB (VERSION CONTROL)

- Git Basics & Commands
- GitHub Repositories
- Branching & Merging
- Collaboration Workflow

AI TRAINING & SOFT SKILLS (FREE)

- AI for Debugging & Error Fixing
- AI for Code Optimization
- AI Prompt Writing for Developers
- Prompt Engineering
- AI Productivity & Automation Tools
- Resume & Portfolio Creation
- GitHub Profile Optimization
- HR Interview Preparation
- Internship & Job Assistance
- Communication, GD, Teamwork Skills



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