

# MERN STACK DEVELOPMENT

Build Modern Web Apps with MERN + AI/LLM Integration



## Module 1: Web Fundamentals

- HTML5
- CSS3,
- JavaScript (ES6+)
- Responsive Web Design



## Module 2: Modern UI & Frontend

- Tailwind css, shadcn/ui
- UI/UX Basics, Forms & Validation
- Animations & Transitions
- Accessibility



## Module 3: React & State Management

- Components, Hooks, Routing
- REST & GraphQL APIs
- Redux Toolkit / Zustand
- Performance Optimization
- AI Integration (ChatGPT)



## Module 4: Backend & Database

- Node.js
- Express.js
- MongoDB & Mongoose,
- JWT Authentication,
- Security Best Practices
- WebSockets,
- AI Backend Integration,
- LLM APIs



## Module 5: Deployment & Project

- Cloud Deploy
- Docker
- Projects
- CI/CD
- n8n Workflows



## Key Tools & Technologies

- Architecture
- Load Balancing,
- Scalability,
- Git , Github
- Postman

Ready to Start Your Journey? Enroll Today !