



**BlackBox**<sup>TM</sup>  
Learning

# MERN STACK WITH AI

Build high-end SaaS with  
Vibe Coding.

## MASTER VIBE CODING

**CONNECT WITH US**

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## LEVEL UP WITH AI



React  
Next.js 15  
Framer Motion  
Node.js & Express  
MongoDB & Mongoose

-  **6 months**
-  **25+ real-time projects**





# Course Introduction

**AI-Powered Full Stack Developer (MERN + AI)** is a beginner-to-advanced program where you learn to build real web apps using React, Next.js, Node.js, databases, and modern AI tools. Through hands-on projects and live deployment, you become job-ready, freelance-ready, and capable of building your own SaaS products.

## MODULE 1

### HTML5 & SEO

- Introduction to Web & HTML
- HTML Fundamentals
- Semantic Structure
- Images & Media
- Forms
- Tables & Data Representation
- Accessibility (A11Y)
- ARIA Basics
- SEO Fundamentals
- Advanced HTML
- Structured Data & Modern Practices

## MODULE 2

### CSS3 & Tailwind

- Introduction to Css
- Css Fundamentals
- CSS Selectors
- Layout Systems
- Positioning
- Responsive Design
- Tailwind Introduction
- Core Concepts
- Layout & Spacing
- Dark Mode
- Animations & UI Effects
- Advanced UI Design

## MODULE 3

### JavaScript & TypeScript

- Introduction to Javascript
- Javascript Fundamentals
- Control Flow
- Functions
- Arrays & Objects
- Advanced JavaScript Concepts
- DOM Manipulation
- Browser APIs
- Asynchronous JavaScript
- ES6+ Modern JavaScript
- TypeScript Basics & setup
- Advanced , Core Types
- Error Handling & Debugging

## MODULE 4

### React 19

- React Introduction
- React Fundamentals
- State Management
- Event Handling
- React Hooks
- Forms in React
- Component Lifecycle
- Performance Optimization
- API Integration
- React Architecture



## MODULE 5

### Next.js, Shadcn & Framer

- Routing System
- Rendering Methods
- SEO in Next.js
- Data Fetching
- Authentication Basics
- Shadcn UI Introduction
- Component System
- UI Customization
- Framer Motion Fundamentals
- Page Transitions
- Scroll, Gesture Animations
- Advanced Motion

## MODULE 7

### Databases

- Database Fundamentals
- MongoDB Introduction
- CRUD Operations
- Querying & Indexing
- Aggregation Framework
- Data Relationships
- Mongoose ODM
- Schema Design
- Firebase Introduction
- Firestore Database
- Firebase Authentication
- Database Architecture

## MODULE 9

### Production Engineering

- Payments Integration
- Security & API Protection
- Performance Optimization
- SEO & SSR
- Git & GitHub Workflows
- Vercel Deployment
- Backend Hosting
- CI/CD Basics
- Production App Deployment

## MODULE 6

### Backend Development

- Node.js Introduction
- Core Node Concepts
- Asynchronous Node
- Express.js Fundamentals
- REST API Development
- Middleware & Routing
- Error Handling
- API Architecture
- Hono Framework
- Authentication & Authorization
- JWT & OAuth
- Zod Validation
- Database Integration

## MODULE 8

### AI Integration

- AI Application Fundamentals
- OpenAI API Integration
- Embeddings
- Prompt Engineering
- Advanced Prompting
- LangChain Workflows
- RAG Architecture
- Vector Databases
- AI Search Systems
- Ollama Local Models
- AI Production Systems



## MODULE 10

### Career Launch

- Resume Building
- GitHub Optimization
- LinkedIn Branding
- Freelancing Roadmap
- Interview Preparation

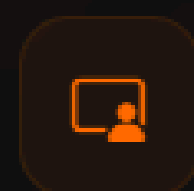
**25 +**  
**Real Project**

**10 +**  
**AI Tools**



#### Placement Assistance

Dedicated career support with resume building, mock interviews, and company referrals.



#### Industry Mentors

Learn directly from professionals who work with top brands and agencies daily.



#### Live + Hands-On

No pre-recorded fluff — every session is live, interactive, and project-focused.

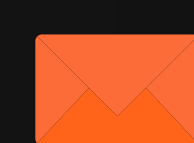


#### Lifetime Access

Community, updates, and resources — your learning doesn't stop after the course ends.



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