

MERN STACK development

- 101 Interaction with Mentors
- No Experienced Required
- Hands-On Experience
- Job Ready Programs

Get A Free
Demo Class

Enroll Now



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TECH STACKS THAT DEFINES THE FUTURE

Explore The Powerful Technologies You'll Master To Become
A Full-Fledged MERN Stack Professional

HTML - Structure the Web

- Introduction To Web & HTML
- Semantic Tags & Forms
- Media Embedding and SEO Friendly HTML
- Accessibility Best Practices

CSS - Style With Purpose

- Selectors, Colors, Box Model
- Flexbox & Grid Layout
- Responsive Design Techinques
- Animations & Transitions

Bootstrap - Build Fast

- Bootstrap Grid & Utility Classes
- Components & Layouts
- Customization & Themes
- Responsive Web Design

JavaScript - Make It Dynamic

- Introduction To JavaScript Programming
- Variables, Data-Types, Operators
- Conditional Statements (If-else-Else If)
- Control Flow Statement (Loop)
- Functions, Arrays & Strings
- DOM - Document Object Model
- Events & Form Handling
- LocalStorage & SessionStorage

Advanced JavaScript

- Template Literals, Rest & Spread Operators
- Arrow Functions, Callback Functions
- Promises in JS, Fetching API's
- Asynchronous & Synchronous JavaScript
- Async/Await In JavaScript
- Error Handling in Async Code
- Real-time Examples (APIs, Loaders, etc.)

React Fundamentals

- Components, Props, and JSX
- State & Lifecycle Methods
- Class & Functional Components
- Conditional Rendering & Lists

React Routing & Navigation

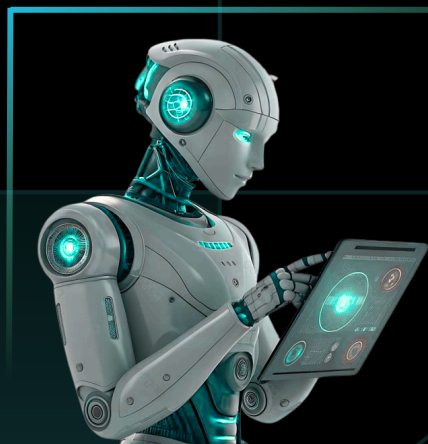
- React Router
- Nested Routes & Dynamic Routing
- Navigation Guards
- Redirects & 404 Handling

Advanced State Management

- Context API for Global State
- useReducer & Custom Hooks
- Redux Toolkit (optional)
- Debugging State & DevTools

API Integration & Ops

- Fetch & Axios
- useEffect for Side Effects
- Loading/Error States
- Working with REST APIs
- Code Splitting & Lazy Loading
- Memoization with useMemo, useCallback
- Folder Structures & Reusability



BACKEND



TECH TOOLS

BUILD TECH TITAN'S

Master the most powerful technologies used by top developers across the globe.

Node JS - Core Concepts

- REPL, Modules, and Package Management
- File System & Path Module
- Event Emitter & Streams
- Environment Variables & Configs

Integration & Auth Basics

- Connecting with MongoDB
- Token-based Authentication (JWT)
- Sessions & Cookies (Intro)
- Error Handling & Logging

Async Programming in Node

- Callbacks, Promises & Async/Await
- Event Loop in Node.js
- Error Handling & Debugging
- Asynchronous File I/O

MongoDB Essentials

- Collections, Documents, and Schema Design
- CRUD Operations
- BSON vs JSON
- Aggregation Framework Basics

NPM Ecosystem

- Creating Custom Modules
- Using & Managing Packages
- Versioning, Semantic Release
- Popular Packages (dotenv, nodemon, etc.)

Mongoose ORM

- Schema Definition & Validation
- Relationships (One-to-Many, Many-to-Many)
- Virtuals, Middleware & Query Helpers
- Data Modeling & Refactoring

Express Fundamentals

- Setting Up Servers & Routing
- Middleware (Built-in, Custom, Error-handling)
- Serving Static Files
- RESTful API Design

Real-time Integration

- Connecting MongoDB with Express
- Query Building with Mongoose
- Error Handling & Validation
- Deployment Readiness: MongoDB Atlas

Request-Response Lifecycle

- Query Params, Route Params
- Request Body Parsing
- CORS & Security Headers
- Response Status Codes & Messages

That's All About
MERN STACK

INVITATION Unlock Your Potential

Every skill. Every stack. All under one roof—only at
D'Code Gurukul



Step into a transformative journey of 4 to 6 months, where your passion for tech meets structured learning, hands-on execution, and expert mentorship. Whether you're a beginner aiming to break into IT or a professional looking to upskill, our programs are crafted to build deep expertise, not just check boxes.

You'll master in-demand tools, work on real-world projects, and get career-ready without putting your current life on hold.

- **Web Development (MERN / NEXT): 6 Months**
- **Data Science: 6 Months**
- **Data Analytics: 4 Months**



At D'Code Gurukul, ambition matters more than background. Whether you're a fresher, career-switcher, or tech enthusiast, you're welcome here.

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