

NEXT JS

development

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

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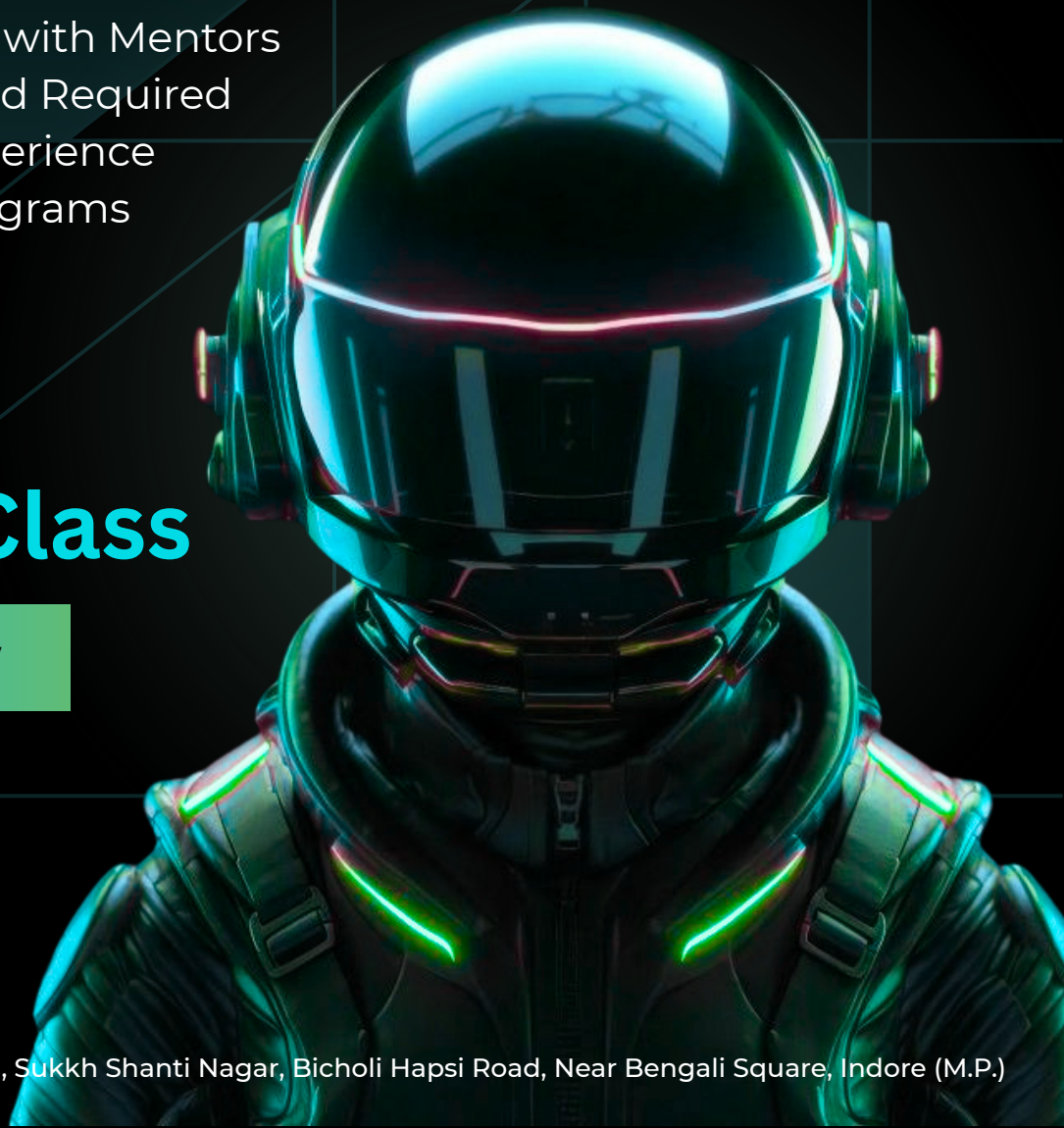
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TECHNOLOGIES DRIVING THE DIGITAL WORLD

Get hands-on with the tech behind startups,
unicorns, and Fortune 500s.

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 Techniques
- Animations & Transitions

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.)

Mastering React.js

- JSX, Props, State, and Event Handling
- Functional vs Class Components
- Lifecycle Methods & Hooks
- Conditional Rendering & Lists
- Building Reusable Components

TypeScript with Next.js

- Understanding TypeScript Basics
- Props, State & Events with Type Annotations
- Interfaces, Types, and Generics
- Converting JS components to TS
- Benefits of using TS in large-scale apps

Tailwind CSS + UI Systems

- Responsive layouts with Flexbox & Grid
- Using ShadCN UI for component design
- Modern UI cards, forms, buttons & modals
- Dark mode and accessibility

Getting Started with Next.js

- What is Next.js? Why Next.js?
- File-based routing and dynamic routes
- Pages vs Components
- SSG, SSR and ISR
- Linking Pages, 404s, and Custom Layouts
- Pages vs Components
- SSG, SSR and ISR
- Linking Pages, 404s, and Custom Layouts
- Image Optimization with Next/Image

Animation with Framer Motion

- Intro to Framer Motion and use cases
- Animating page transitions and elements
- Gesture-based animations & reveal effects
- Building interactive and delightful UI/UX

Backend with Node & Express

- Setting up Express server
- Creating RESTful APIs and handling routes
- Middleware, Error Handling, CORS
- Building Auth APIs: Login, Register, Logout
- Using JWT for secure authentication
- Securing Routes & Token Expiry Handling

Connecting MongoDB

- MongoDB Atlas setup and database design
- CRUD operations with Mongoose
- Creating Models and Schemas
- Data validation and relationship design
- Integrating MongoDB with Express APIs

NextAuth.js – Auth Simplified

- Implementing auth with NextAuth.js
- Social logins (Google, GitHub)
- Session management & secure API access
- Protecting frontend routes with useSession
- Custom JWT callbacks with NextAuth

Full Stack Integration

- Uploading files using Multer
- Storing & optimizing media with Cloudinary
- Sending emails using Nodemailer
- Environment Variables & Security Practices
- Connecting Frontend with Backend APIs
- Protected Routes with JWT & NextAuth
- Using getServerSideProps and getStaticProps with dynamic data

INVITATION Unlock Your Potential

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



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