



**Arfa Karim**  
Technology Incubator

# React JS

Duration: 3 Months



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## Modules

- Introduction to React.js
- Setting Up a React Environment
- JSX (JavaScript XML)
- Components and Props
- State & Lifecycle
- Handling Events
- Conditional Rendering
- Lists & Keys
- Forms & Controlled Components
- Routing with React Router
- Hooks & Functional Components
- Context API & Redux (State Management)
- Asynchronous Data Fetching
- Testing React Applications
- Styling in React
- Building a Complete React Application
- Deployment & Optimization

## Audience

- Web developers & programmers
- Front-end developers
- Students & React developers

## Outcomes

- Understand the core concepts & principles of React.js
- Set up a development environment for React projects
- Create reusable components & pass data via props
- Manage component state & lifecycles effectively
- Implement event handling and conditional rendering
- Work with forms and controlled components
- Build single-page applications with React Router
- Utilize hooks & functional components for state management
- Implement global state management with the Context API & Redux
- Fetch & display asynchronous data
- Write tests for React applications
- Apply CSS styles to React components
- Develop a complete React application from scratch

## Eligibility Criteria

- Basic familiarity with HTML, CSS, Bootstrap / Any UI Framework