

App Development Using ReactNative With AI Integration | Duration: 1 Month

Week 1: Introduction to React Native and Environment Setup

- Understanding React Native and cross-platform development
- Setting up the development environment:
- Installing Node.js, npm/yarn, and React Native CLI
- Setting up Android/iOS emulators
- Creating your first React Native project
- Project structure and code organization
- Building your first screen with components, props, and state

Week 2: State Management and Backend Integration

- Introduction to Redux:
- Understanding state management
- Setting up Redux in a React Native app
- Creating actions, reducers, and the store
- Connecting to the backend with Node.js and Express:
- Building a simple API with Node.js and Express
- Integrating MongoDB for data storage
- Performing CRUD operations through the app

Week 3: AI Integration and Advanced Features

- Introduction to AI in mobile apps
- Integrating AI APIs (OpenAI, Google AI, etc.)
- Implementing AI-powered features:
- Chatbots for instant support
- Recommendation systems for personalized content
- Sentiment analysis on user inputs
- Enhancing user experience with push notifications and animations

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Week 4: Final Project, Testing, and Deployment

- Developing a full-stack React Native app with AI integration
- Testing and debugging the app
- Preparing the app for deployment:
- Generating APK/IPA files
- Publishing to the Play Store/App Store
- Presenting the final project and portfolio building

Key Takeaways:

- Build cross-platform mobile apps with React Native
- Implement AI-powered features to enhance user experience
- Integrate Redux, Node.js, and MongoDB for full-stack development
- Launch your AI-driven app and add it to your portfolio

By the end of this course, you'll confidently create AI-powered mobile apps with React Native, hready to hit the market or impress potential employers! □

App Development Using ReactNative With AI Integration | Duration: 2 Months

Week 1: Introduction to React Native and Environment Setup

- Understanding mobile app development and React Native
- Setting up the development environment:
- Installing Node.js, npm/yarn, React Native CLI
- Setting up Android/iOS emulators
- Creating your first React Native project
- Core concepts: Components, Props, and State
- Building your first screen and handling basic navigation

Week 2: State Management with Redux

- Introduction to Redux:
- Understanding state management
- Actions, Reducers, and the Store
- Implementing Redux in a React Native project
- Managing global state across the app
- Creating a simple app with Redux state management

Week 3: Backend Development with Node.js and MongoDB

- Setting up Node.js and Express.js for backend development
- Creating RESTful APIs to connect with React Native
- Introduction to MongoDB:
 - o Setting up the database
 - o Performing CRUD operations (Create, Read, Update, Delete)
- Connecting the backend to the mobile app

Week 4: Advanced Navigation and UI Enhancements

- Implementing advanced navigation: Stack, Tab, and Drawer navigation
- Creating reusable UI components
- Handling user authentication and authorization
- Adding animations and enhancing UI/UX

Week 5: AI Integration Basics

- Introduction to AI in mobile apps
- Exploring AI APIs (e.g., OpenAI, Google AI, etc.)
- Setting up API keys and making requests from the app

Week 6: Implementing AI-Powered Features

- Building an AI-powered chatbot for user support
- Creating personalized recommendations using AI
- Sentiment analysis for user inputs
- Integrating AI-powered voice recognition or image processing (optional)

Week 7: Final Project Development

- Planning and structuring the final project
- Implementing full-stack functionality:
 - Frontend with React Native and Redux
 - Backend with Node.js and MongoDB
- AI-driven features integration

Week 8: Testing, Deployment, and Presentation

- Testing and debugging the app
- Optimizing performance and handling edge cases
- Generating APK/IPA files for deployment
- Publishing the app to the Play Store/App Store
- Project presentation and portfolio building

Key Takeaways:

- Build cross-platform mobile apps with React Native
- Manage complex app states using Redux
- Develop a backend with Node.js and MongoDB
- Integrate AI-powered features for enhanced user experiences
- Deploy your app and present a polished project in your portfolio

By the end of this course, you'll have a fully functional, AI-powered app, ready for real-world use and a stellar addition to your portfolio!

App Development Using ReactNative With AI Integration | Duration: 3 Months

Week 1: Introduction and Environment Setup

- Overview of mobile app development and React Native
- Setting up the development environment:
- Installing Node.js, npm/yarn, React Native CLI
- Configuring Android/iOS emulators
- Creating your first React Native project
- Understanding components, props, and state in React Native

Week 2: Core React Native Concepts

- Building screens with functional and class components
- Handling user inputs and forms
- Managing lists and rendering dynamic data
- Navigating between screens: Stack and Tab navigation

Week 3: State Management with Redux

- Introduction to Redux: Why we need state management
- Setting up Redux in a React Native project
- Creating actions, reducers, and the store
- Implementing a global state in the app

Week 4: UI Enhancements and Basic API Integration

- Creating reusable UI components
- Adding custom styles and animations
- Fetching data from external APIs
- Displaying API data in the app

Week 5: Backend with Node.js and Express.js

- Setting up Node.js and Express.js
- Building RESTful APIs for mobile app communication
- Handling routes and middleware in Express.js

Week 6: Database Management with MongoDB

- Introduction to MongoDB and database design
- Connecting Node.js to MongoDB
- Performing CRUD operations with MongoDB

Week 7: Connecting Frontend and Backend

- Making API requests from React Native
- Handling data with Redux and displaying it in the app
- Implementing authentication and session management

Week 8: Introduction to AI Integration

- Understanding AI concepts in app development
- Exploring AI APIs (e.g., OpenAI, Google AI)
- Setting up API keys and making AI requests

Week 9: Implementing AI Features

- Building an AI-powered chatbot for instant support
- Implementing recommendation systems for personalized content
- Adding sentiment analysis for user inputs

Week 10: Advanced App Features

- Integrating push notifications
- Handling real-time updates with WebSockets (optional)
- Enhancing UX with animations and smooth navigation

Week 11: Final Project Development

- Structuring the final project
- Implementing front-end, back-end, and AI-powered features
- Optimizing performance and handling edge cases

Week 12: Testing, Deployment, and Presentation

- Testing and debugging the app
- Generating APK/IPA files for deployment
- Publishing the app to the Play Store/App Store
- Project presentation and portfolio building

Key Takeaways:

- Build cross-platform mobile apps with React Native
- Manage complex app states using Redux
- Develop a backend with Node.js and MongoDB
- Integrate AI-powered features to enhance user experiences
- Deploy and present a production-ready mobile app

By the end of this course, you'll have a fully functional,
AI-powered mobile app, ready to launch and showcase in your portfolio!

**Enroll Now & Master App Development Using ReactNative
With AI Integration At TP Digital Technologies!**