

Python Django React JS Full Stack

Master the job-oriented skills to become an
Python Django React JS Full Stack
Duration: 5 Months Course + 1 Month Internship



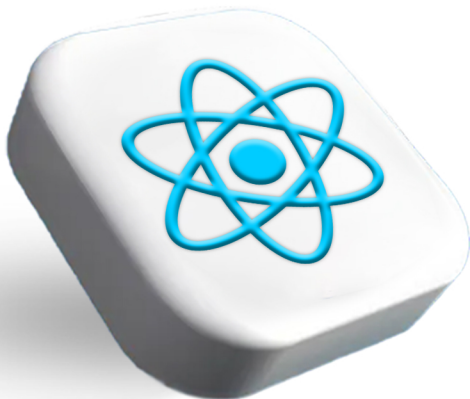
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About the course :

Become an expert in front-end development using React JS and back-end using Django. In the Python Django React JS Full Stack, you will have the opportunity to learn and develop scalable web, mobile, and desktop applications with the concepts of the React.js. The course is completely practically oriented and taught by experts in the tech field.

What you will learn :



- Introduction to Python
- Python Syntax
- Data Structures
- Functions
- File Handling
- Object-Oriented Programming
- Decorators
- Testing and Debugging
- Modules and Packages
- Error Handling and Exceptions
- Working with Strings
- Functional Programming
- Advanced Data Structures
- Generators and Iterators
- HTML, CSS, Java Script, Bootstrap
- Web Development with Django
- Django REST frameworks

PostgreSQL for RDBMS

- Introduction to PostgreSQL
- Basic SQL Commands
- Managing Databases and Tables
- Advanced Queries and Joins
- Working with Indexes
- Database Administration Tasks

Introduction to React

- What is React? Why use it?
- Key features of React
- Setting up a React environment (Create React App, Vite)
- Understanding JSX (JavaScript XML)
- Components and the Virtual DOM

React Components

- Functional vs. Class Components
- Props and State
- Component Lifecycle (only for Class Components)
- React Hooks (useState, useEffect)
- Handling events in React

React Hooks & State Management

- useState for managing local state
- useEffect for side effects
- useRef, useMemo, useCallback
- Context API for global state management
- Introduction to Redux, Zustand

React Router

- Setting up React Router
- Dynamic Routing & Nested Routes
- Route Parameters
- Protected Routes

Forms and Handling User Input

- Controlled vs. Uncontrolled Components
- Handling form submissions
- Form validation using libraries (Formik, Yup)

Fetching Data & API Integration

- Fetch API & Axios
- Handling asynchronous data
- Error handling & loading states

Advanced React Concepts

- Performance Optimization (Memoization, Lazy Loading)
- Custom Hooks
- React Query (Data Fetching & Caching)

Deploying a React App

- Building for Production
- Deploying to Vercel, Netlify, or Firebase
- Environment Variables & Configuration

Live Project

- CMS Projects
- E-commerce Application

Why Techno Dot Academy?



Guaranteed Placement Assistance and Internship



Endorsed by IT Firm



Scholarships/Earn While Learn Option

Exit Profiles

- Python Developer
- Django Developer
- Backend Developer

- Full Stack Developer
- React Developer
- Frontend Developer

CALICUT

TECHNO DOT ACADEMY
Kinfra Techno Industrial Park, Neospace,
Kakkanchery, Kozhikode, Kerala 673635

☎ +91 8086299197

✉ info@techno.academy

UAE

TECHNO DOT ACADEMY
Sharjah Research Technology And
Innovation Park, UAE

☎ +971 55 551 1370

✉ uae@techno.academy