

PYTHON FULL STACK

About Us

Adacode Solutions excels in innovative software solutions, specializing in IoT, Robotics, Cloud, Data Science, and more. Trust us as your partner for cutting-edge solutions, shaping the future of technology.

We Provide

- ✓ **Scholarship for Students**
- ✓ **Education Loan**
- ✓ **Life time Placement Support**
- ✓ **Online and Offline Classes**
- ✓ **Life time Access to course Materials**

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more info



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Industrial Experts

Developing and executing strategies that stimulate business expansion.



100% Genuine Placements

In-depth market analysis and competitive intelligence.



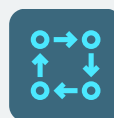
Interview Assistance

Talent management, leadership development, and HR strategy.



Collage Project Assistance

Optimizing financial performance, budgeting, and forecasting.



Aptitude Practice Sessions

Streamlining processes and improving operational effectiveness.



English Training

Leveraging technology for efficiency and competitive advantage.



Soft Skill Sessions

Leveraging technology for efficiency and competitive advantage.



ADACODE

Solutions

PYTHON FULL STACK

Who Should Join This Course

- ➡ Students who are looking for their 1st Job
- ➡ If you want to become a python full stack developer
- ➡ professionals working on python projects

Course Details

Duration: 6-8 Months

7 Modules

Unlimited Lab Access

Final Project

Project Certificates

Course Certificates

English Training Sessions

Monthly Mock Interview Sessions

IEEE Certified Projects

Course Content

- Introduction to Python and Web Development Basics
- Front-End Development with HTML, CSS, and JavaScript
- Back-End Development with Python and Flask
- Front-End Frameworks and Advanced JavaScript
- Full-Stack Integration and Deployment
- Final Project



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Syllabus

Module 1: Introduction to Python and Web Development Basics

- Python basics, data types, control structures
- Functions and modules
- Object-oriented programming (OOP) in Python
- Overview of web technologies
- HTML, CSS, and JavaScript basics
- Setting up a development environment

Module 2: Front-End Development with HTML, CSS, and JavaScript

- HTML5 features and semantics
- CSS3 styling and layout techniques
- Responsive web design
- JavaScript Fundamentals
- Variables, data types, and operators
- Control flow and functions
- DOM manipulation and events
- Advanced JavaScript and Front-End Frameworks
- Asynchronous JavaScript (Promises, async/await)
- Introduction to front-end frameworks (React, Vue, or Angular)

Module 3: Back-End Development with Python and Flask

- Introduction to Back-End Development
- Overview of server-side programming
- Introduction to Flask framework
- Handling HTTP requests and responses
- Database and Flask SQLAlchemy
- Basics of relational databases (SQL)
- Integrating databases with Flask using SQLAlchemy
- CRUD operations with Flask and SQLAlchemy
- RESTful APIs with Flask
- Designing RESTful APIs
- Authentication and authorization
- Testing APIs with tools like Postman

Module 4: Front-End Frameworks and Advanced JavaScript

- Advanced Front-End Framework (React, Vue, or Angular)
- Components, props, and state management
- Routing and navigation
- API integration with the chosen framework
- Advanced JavaScript Concepts
- Design patterns (Observer, Module, etc.)
- Advanced DOM manipulation
- State management libraries (Redux)

Module 5: Full-Stack Integration and Deployment

- Final Project
- Capstone project development
- Code review and best practices
- Advanced Topics and Emerging Technologies
- Exploring serverless architecture
- Websockets and real-time applications
- Introduction to containerization (Docker)