



SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,

C Y B E R S E C U R I T Y

5-Days Workshop on Python Full Stack

In today's technology-driven world, Full Stack Developers are in high demand as they can build complete web applications from front-end to back-end. Python Full Stack Development combines powerful front-end technologies with robust back-end frameworks and databases to create scalable, secure, and high-performance applications.

The Comprehensive Python Full Stack Workshop is a 5-day immersive training program designed to equip participants with practical knowledge and hands-on skills required to build real-world web applications from scratch.

Topics to be covered in Python Full Stack

Day 1: Web Development Fundamentals

- Introduction to Full Stack Development
- Overview of Frontend & Backend Technologies
- HTML5 – Structure of Web Pages
- CSS3 – Styling, Layouts, Flexbox & Responsive Design
- Introduction to Bootstrap
- Hands-on: Creating responsive web pages

Day 2: JavaScript & Frontend Development

- JavaScript Basics and ES6 concepts
- DOM Manipulation & Events
- Introduction to React JS
- Components, Props & State
- Conditional Rendering & Lists
- Hands-on: Building interactive UI components

Day 3: Python Backend Development

- Introduction to Python Programming
- Python Data Types, Functions & OOP Concepts
- Introduction to Django / Flask Framework
- MVC / MVT Architecture
- URL Routing & Views
- Hands-on: Building backend APIs

Day 4: Database & Backend Integration

- Introduction to Databases
- SQL Basics (CRUD Operations)
- Django ORM / Flask with SQL
- User Authentication & Authorization
- Connecting Frontend with Backend
- Hands-on: Full Stack Application Integration

Day 5: Deployment, Projects & Career Guidance

- Introduction to REST APIs
- Project Structure & Best Practices
- Debugging & Error Handling
- Deployment Basics
- Mini Full Stack Project
- Resume Tips & Career Guidance
- Practical Project Presentation

Duration: The duration of this workshop will be five consecutive days, with 6-hour sessions each day, totaling 30 hours, properly divided into theory and hands-on practical session

Certification Policy:

- **Certificate of Merit** for all the workshop participants from SmartBridge.
- **At the end of this workshop, a small competition will be organized among the participating students and winners will be awarded with a 'Certificate of Excellence'.**
- **Certificate of Coordination** for the coordinators of the campus workshops
- **Internship and placement also provide for selected student..**

Eligibility: It's a basic level workshop so there are no prerequisites. Anyone interested, can join this workshop.

Pre-Requisites:

- Seminar hall/classroom having sitting capacity of 200 students for conducting hands on session for all the participants.
- Good Quality public address system ideally one/two cordless mikes will be required.
- Projector/ Screen along with black/white board for teaching and presentation purposes.
- One small stereo jack cord to connect in laptop for its sound system.
- Laptop/Computer per two students is necessary.
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**Python Full Stack|Web
Development|Internships|Projects &
Training**

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