SPYPRO SECURITY SOLUTIONS Pvt. Ltd.,

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

3-Days Workshop On Python Full Stack

Workshop Overview:

In today's digital era, full stack development has become one of the most in-demand skills in the software industry. A Python Full Stack Developer is capable of building complete web applications by working on both frontend and backend technologies.

This three-day comprehensive workshop is designed to provide participants with a strong foundation in web development using Python. Through a blend of theoretical concepts and hands-on practical sessions, participants will gain the skills required to design, develop, and deploy real-world web applications.

Day 1: Web Development Fundamentals

Session 1:

- Welcome and workshop introduction

- Overview of Full Stack Development

- Understanding frontend and backend roles

- Introduction to web applications and how they work

Session 2:

- HTML fundamentals – structure of web pages
- CSS basics – styling, layouts, and responsiveness
- Introduction to Bootstrap
- Hands-on exercise: Designing responsive web pages

Session 3:

- JavaScript basics
- Variables, functions, and events
- DOM manipulation
- Hands-on exercise: Adding interactivity to web pages

Day 2: Python Backend Development

Session 1:

- Introduction to Python programming
- Data types, control structures, and functions
- Basics of Object-Oriented Programming

Session 2:

- Introduction to Django / Flask framework
- MVC / MVT architecture
- URL routing and views
- Hands-on exercise: Creating backend logic

Session 3:

- Working with templates and forms
- Connecting frontend with backend
- Introduction to REST APIs
- Hands-on exercise: Building simple APIs

Day 3: Database, Project & Career Guidance

Session 1:
- Introduction to databases
- SQL fundamentals and CRUD operations
- Integrating database with Python backend
- Hands-on exercise: Database connectivity

Session 2:
- User authentication and authorization
- Error handling and debugging
- Basic deployment concepts

Session 3:
- Mini Python Full Stack project
- Project explanation and presentation
- Resume building tips and career guidance
- Q&A and workshop conclusion

Conclusion:
This **3-day Python Full Stack workshop** equips participants with essential skills in frontend, backend, and database integration. By the end of the workshop, participants will have hands-on experience in building web applications and a clear understanding of career opportunities in full stack development.

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