



APPLETLOGIC

**AI Integrated
Python Django Full Stack
Development**

OUR SERVICES

Placement Grooming Sessions

Our Placement Grooming Program prepares students for successful careers through regular training sessions focused on interview preparation, communication skills, aptitude training, and group discussions. With continuous guidance and practice, students build confidence and stay ready to excel in placement opportunities.

Assesements

Our Assessment Program helps students track their progress through regular evaluations of technical and professional skills. With continuous assessments and timely feedback, students identify areas for improvement, strengthen their knowledge, and ensure consistent growth throughout the course.

Module wise Evaluations

Our module-wise evaluation system assesses students at the end of each module to measure their understanding and learning progress. This structured approach reinforces key concepts, identifies areas for improvement, and provides timely feedback, helping students build confidence and achieve consistent progress throughout the course.

Experienced Mentors

Our experienced mentors bring strong industry knowledge and practical expertise to guide students throughout their learning journey. With personalized support, real-world insights, and continuous mentoring, they help students build technical skills, solve challenges confidently, and prepare for successful careers in the IT industry.

HR & Mock Interview

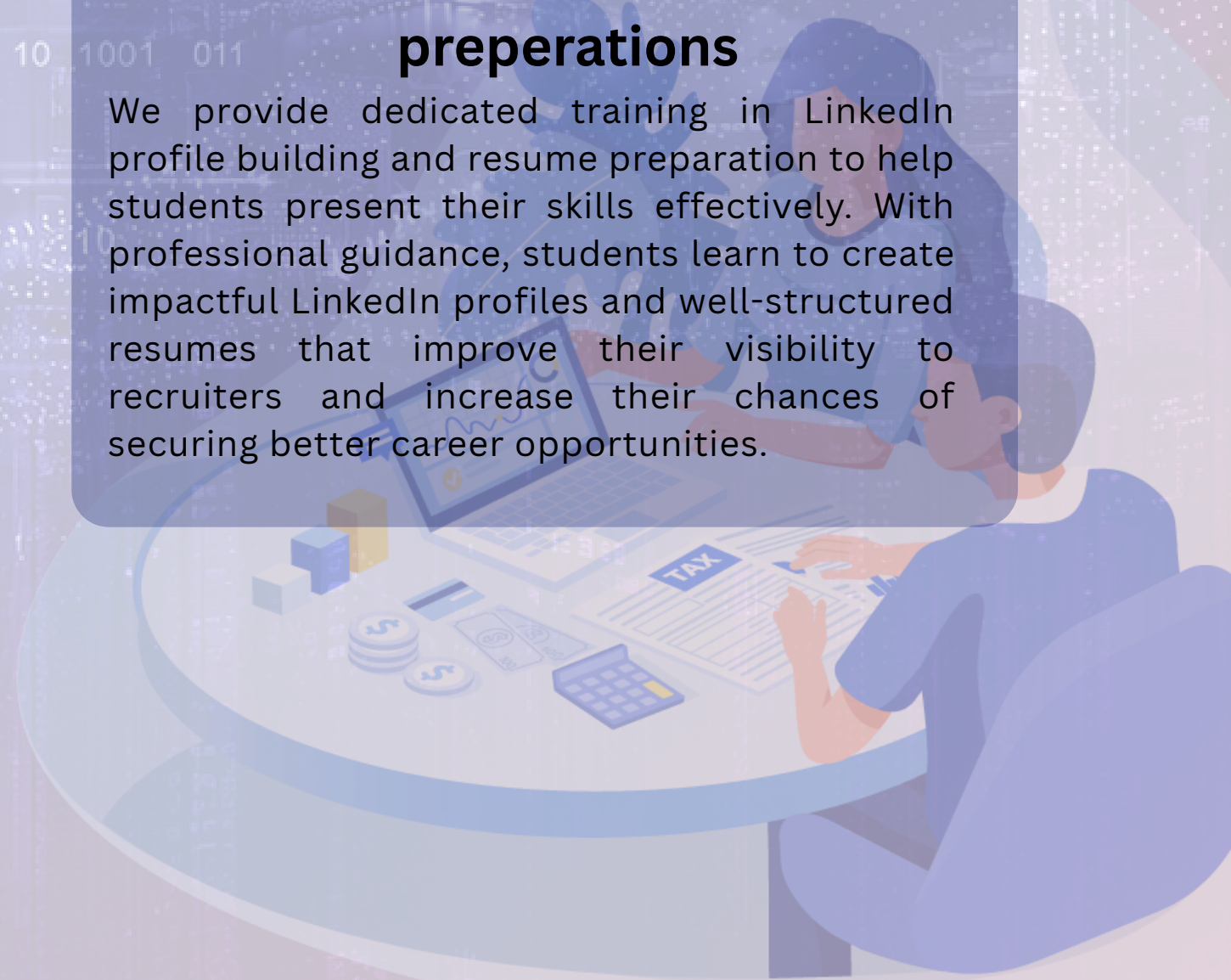
Our HR & Mock Interview sessions prepare students to confidently face recruitment processes. The program includes HR interview practice, technical mock interviews, resume review, communication enhancement, and personalized feedback to improve performance and increase placement success.

Linkedin and Resume preparations

We provide dedicated training in LinkedIn profile building and resume preparation to help students present their skills effectively. With professional guidance, students learn to create impactful LinkedIn profiles and well-structured resumes that improve their visibility to recruiters and increase their chances of securing better career opportunities.

Internship Opportunity

Our Internship Program gives students practical experience by working on real-time projects under expert guidance. It helps them strengthen their technical skills, gain industry exposure, and build the confidence needed for successful career opportunities.



ABOUT THE COURSE

The **AI Integrated Python Django Full Stack Development** course is a comprehensive, job-oriented program designed to help you become a professional full-stack web developer. Starting with Python programming fundamentals, you'll progress through front-end development, databases, Django, REST API development, deployment, and AI integration.

The curriculum emphasizes **hands-on learning** through real-world projects, ensuring you gain practical experience in building scalable, secure, and responsive web applications. You'll also learn to use **AI-powered development tools** such as **ChatGPT, GitHub Copilot, Gemini, and Cursor AI** to accelerate coding, debugging, testing, and application development.

By the end of the course, you'll be able to design, develop, deploy, and maintain modern web applications while building an industry-ready portfolio through a **capstone project, internship opportunities, and real client projects.**



Course Modules

Module 1

Python Programming Fundamentals

- Introduction to Programming
- Python Installation
- VS Code Setup
- Python Syntax
- Variables & Data Types
- Input & Output
- Operators

Module 2

Control Statements & Functions

- Conditional Statements
- Loops
- Pattern Programs
- Functions
- Function Arguments
- Return Statements
- Lambda Functions
- Recursion

Module 3

Object-Oriented Programming

- Classes & Objects
- Constructors
- Encapsulation
- Inheritance
- Polymorphism
- Abstraction
- Exception Handling

Module 4

Advanced Python & Version Control

- File Handling
- CSV Processing
- JSON
- Regular Expressions
- Modules & Packages



- Virtual Environment
- Logging
- Git
- GitHub

Module 5

Data Analysis & Database

- NumPy
- Pandas
- Data Cleaning
- SQL
- PostgreSQL
- Database Design
- CRUD Operations

Module 6

Front-End Development

- HTML5
- CSS3
- Bootstrap
- Responsive Design
- UI Components
- Forms
- Layout Design

Module 7

JavaScript & Modern Web Development

- JavaScript ES6
- Variables & Functions
- DOM Manipulation
- Events
- Fetch API
- AJAX
- Local Storage
- API Integration

Module 8

Django Web Development

- Django Introduction
- MVT Architecture
- Django Project Setup



- Django Apps
- URL Routing
- Views
- Templates
- Static Files

Module 9

Django Database & Authentication

- Models
- Django ORM
- Migrations
- CRUD Operations
- Forms
- Authentication
- Authorization
- Custom User Model
- Admin Panel

Module 10

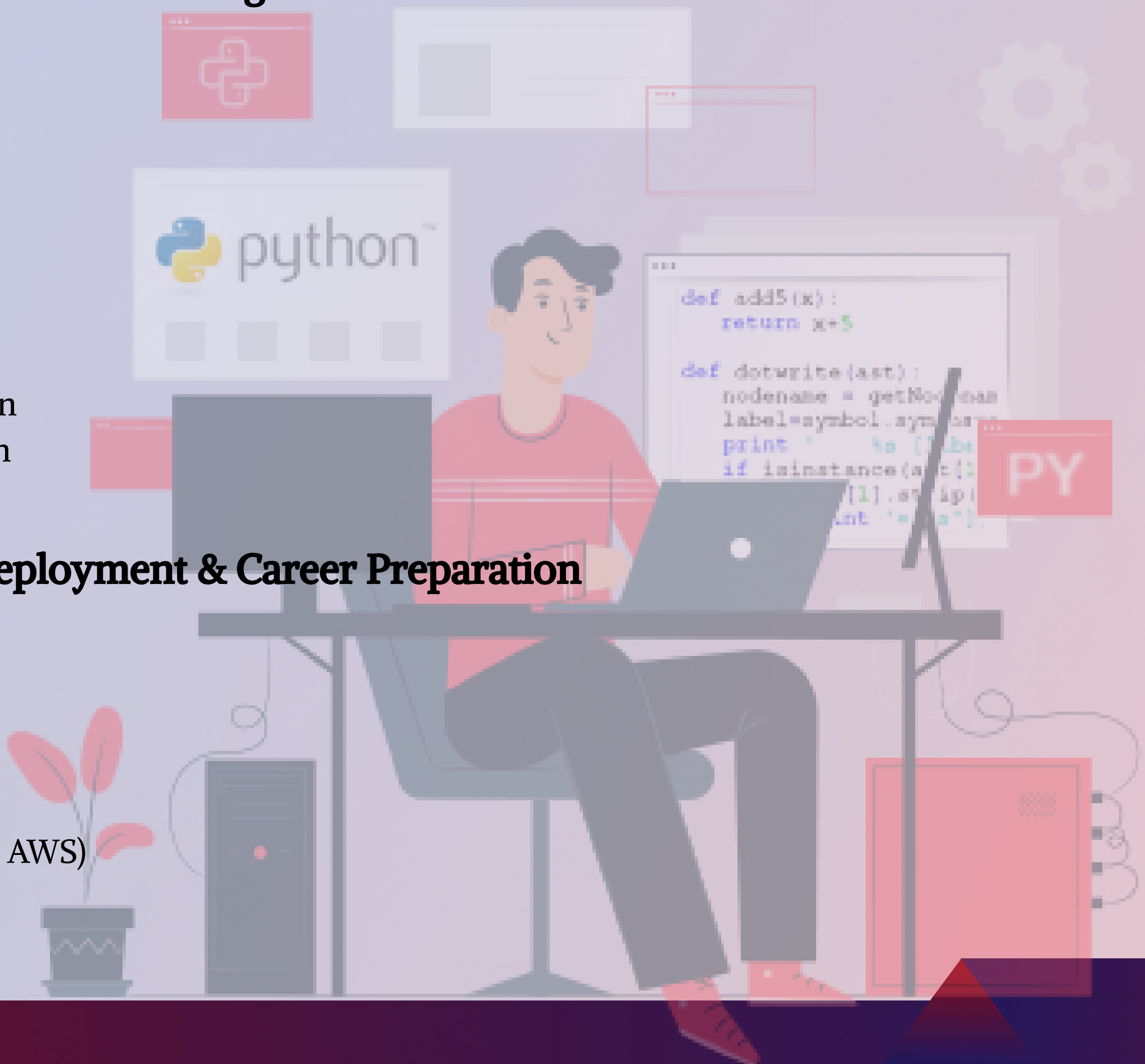
Django REST Framework & AI Integration

- REST API
- Serializers
- API Views
- ViewSets
- Routers
- JWT Authentication
- API Testing
- AI Chatbot Integration
- OpenAI API Integration
- Gemini API Integration

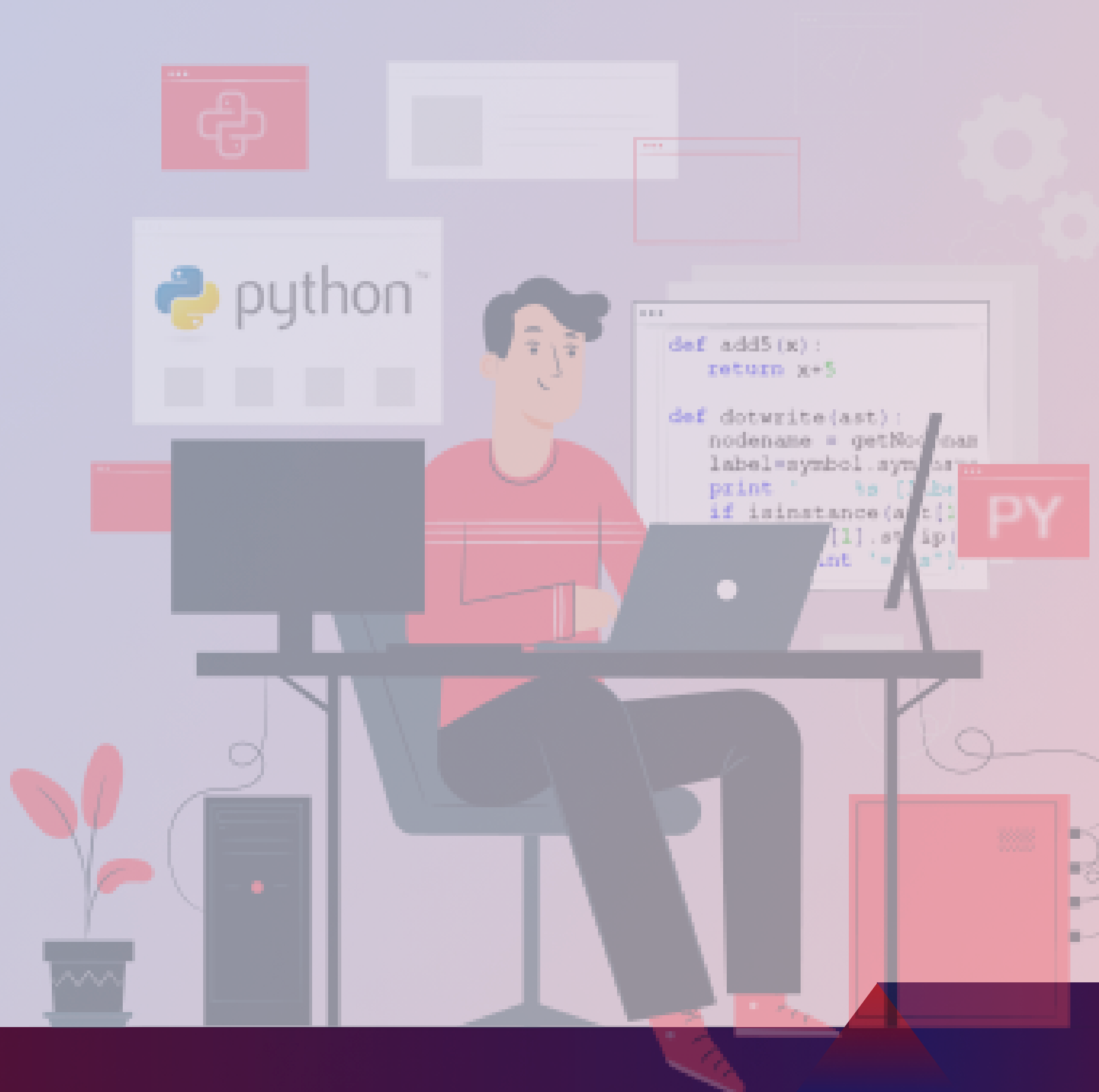
Module 11

Advanced Django, Deployment & Career Preparation

- Class-Based Views
- Middleware
- Signals
- Caching
- Docker
- Deployment (Render / AWS)
- GitHub Portfolio
- Resume Building



- LinkedIn Optimization
- Mock Interviews
- Placement Preparation



Thank you

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