

# TechLeap Academy



**TECHLEAP ACADEMY**  
UNLOCK YOUR INTELLECTUAL GRACE

ADVANCED CERTIFICATION PROGRAM IN

Python Programming

Powered by: **TechLeap Academy**



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# About us:

TechLeap Academy is an EdTech Platform, offers a diverse range of programs designed to match your ambitions and career goals. Whether you're just starting your journey in technology or looking to upskill, our carefully curated courses provide the perfect blend of theory and hands-on experience. From software development and web technologies to digital marketing, data analytics, and emerging tools, our programs are built with industry demand in mind. Each course is led by experienced mentors who guide you through real-world projects, ensuring you gain the confidence and expertise to succeed.

# Program Overview



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## Phase-1 (Application & Onboarding)

1.----- Application Submission-----2.----- Application Submission

## Phase-2 (Journey Begin)

1.----- Basic Quiz----2.-----Self Analysis Drill

## Phase-3 (Let's start mentorship)

- 1.-----Data Science & Analytics (Basic to advance)
- 2.-----LIVE sessions + weekly challenges.
- 3----Guidance of Industry Mentor

## Phase-4 (Ready to join the industry)

- 1.-----Live Projects-----2.-----Phase Test-----
- 3.-----Internship Opportunities-----4.-----Career Assistance Session-----5.-----Mock Interviews



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# TechLeap Certification

1. -----TechLeap Certification
2. -----3+Industrial Expert Guest Sessions
3. -----3+ Advanced Projects

# Tools & skills learnt



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Advanced Data  
Structures

Advanced Libraries:  
NumPy, SciPy, Pandas,  
Matplotlib, and scikit-learn

Database Integration Data  
Serialization and Formats

API Integration

Object-Oriented  
Programming (OOP) &  
Functional Programming

Web Development:  
Django/Flask, GUI  
Development

Web Scraping Machine  
Learning & AI  
Introduction

automation scripting



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# Job Opportunities

Python Developer  
(₹4-6 lakhs per annum)

Machine Learning Engineer  
(₹6-8 lakhs per annum)

Python Automation Engineer  
(₹4-6 lakhs per annum)

Python Software Engineer  
(₹4-6 lakhs per annum)

Data Analyst  
(₹4-6 lakhs per annum)

Django developer  
(₹5-7 lakhs per annum)

Python Backend Developer  
(₹5-7 lakhs per annum)

Python Tester  
(₹3-5 lakhs per annum)



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# Curriculum

**Week 1:** Introduction to Python - Overview, installation, IDE setup, first program - Lab: Simple calculator program.

**Week 2:** Variables, Data Types & Operators - Variables, constants, data types, type conversion, operators - Lab: Temperature conversion.

**Week 3:** Strings & String Manipulation - String operations, slicing, formatting, built-in functions - Lab: Palindrome checker, word frequency.

**Week 4:** Control Structures - Conditional statements, loops, loop control statements - Lab: Prime checker, factorial calculator.



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**Week 5:** Data Structures – Lists & Tuples - List creation, indexing, slicing, comprehension - Tuples and immutability - Lab: Student grade system.

**Week 6:** Data Structures – Dictionaries & Sets - Dictionary operations, nested dictionaries, sets - Lab: Word frequency counter.

**Week 7:** Functions in Python - Defining functions, arguments, return values, lambda functions - Lab: Banking system functions.



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**Week 8:** Modules & Packages - Importing modules, creating custom modules and packages, pip, virtual environments - Lab: Custom math utility package.

**Week 9:** File Handling & Exception Handling - Reading/writing files, CSV/JSON, try-except-finally - Lab: Student record management.

**Week 10:** Object-Oriented Programming (OOP) - Classes, objects, constructors, inheritance, polymorphism - Lab: Library management system

**Week 11:** Advanced Python Concepts - Iterators, generators, decorators, context managers, regex - Lab: Email & phone validator.

**Week 12:** Working with Libraries - NumPy, Pandas, Matplotlib basics - Lab: Sales dataset analysis.

**Week 13:** Python for Web Development - Flask/Django basics, routes, templates, REST API - Lab: Simple Flask web app.



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**Week 14:** Python for Automation & Scripting - Automating tasks, web scraping, sending emails - Lab: Web scraper for news headlines.

**Week 15:** Capstone Project – Real World Application - End-to-end project (Inventory system, Weather app, Finance tracker) - Lab: Develop & test project.

**Week 16:** Final Project Presentation & Career Preparation - Project presentations, Python certification prep, resume building, interview prep.

# Recruitment Partners



# Code of Conduct

**Program Structure:** Skill Development Track: We will focus on enhancing skills and knowledge with LIVE sessions from industry mentors.

**Certification:** Successful completion of the program, including assessments, projects, and attendance, will lead to gaining Completion Certificate and Project Certificate. Internship Certificate will be provided by the company you'll be interning with, if any. Career Track (**Early Career Opportunities**): We will provide opportunities for early career development through internships.

**Code of Conduct Class Schedule and Attendance:** Regular Classes: Classes will be held two times a week on a consistent schedule. Evening Time Slots: Class timings will be in the evening slot between 6:30 PM - 10:00 PM, and each session will last approximately 1-1.5 hours.

**Mandatory Attendance:** A minimum of 70% attendance in live classes is required. Certification Criteria: Certifications will only be issued to students who maintain the required attendance.

## Contact Us

### **Course starts:**

Classes from first week of the month

### **Program hours:**

50+ learning hours

4+ Industrial Projects

**For admissions, contact:**

**+918130058278**

**support@techleapacademy.org**

<https://techleapacademy.com/>