

Python Programming Program

Master Python. Build the Foundation for Modern Tech Careers.

Python is the most versatile and in-demand programming language in the world. From automation and web development to data science and AI—Python is the backbone of countless applications.

At **Certed Technologies**, our **Python Programming Program** is designed to take you from beginner to confident developer with strong problem-solving and project-building skills.

Why Python? Why Now?

Python's simplicity, readability, and robust libraries have made it the **#1 language** for career starters, software developers, data analysts, AI/ML professionals, and automation engineers.

It is used across domains—web development, fintech, education, healthcare, cybersecurity, and robotics. If you want to enter tech, **Python is your gateway**.

Learn from Python Experts

Our trainers are seasoned developers, data scientists, and software engineers who use Python daily in real-world projects. You'll gain both practical skills and insights into **how Python is used in industry environments**.

Program Highlights

Feature	Description
Duration	6 Months / 450 Hours
Delivery Mode	Hybrid (Online + Offline)
Tools & Platforms	Jupyter Notebook, PyCharm, Git, PythonAnywhere, etc.
Project Work	5+ Mini Projects + 1 Major Capstone
Certifications	Industry Certificate + Project Badge

What You'll Learn

A complete roadmap—from Python basics to automation, web, and data integration.

Module 1: Python Fundamentals

- Variables, Data Types, Typecasting
- Operators, Conditional Statements, Loops
- Input/Output, Error Handling, File Handling

Module 2: Functions & Object-Oriented Programming (OOP)

- Built-in & User-Defined Functions
- *args and **kwargs, Recursion
- Classes, Objects, Inheritance, Encapsulation, Polymorphism

Module 3: Data Structures in Python

- Lists, Tuples, Sets, Dictionaries
- Searching & Sorting Algorithms
- Stacks, Queues, Linked Lists (Introductory Level)

Module 4: Working with Files, JSON, and APIs

- File Read/Write Operations
- JSON Parsing and Manipulation
- Consuming Web APIs (GET, POST requests using `requests`)

Module 5: Python for Automation & Scripting

- OS Module, Regular Expressions
- Web Scraping with BeautifulSoup
- Automating Excel & PDFs using [openpyxl](#), [PyPDF2](#)

Module 6: Intro to Web and Data Projects

- Flask for Web App Basics
- SQLite/MySQL Integration
- CSV/Excel Data Analysis using Pandas
- Data Visualization using Matplotlib

Module 7: Final Capstone Project

- Build a complete real-world Python project
- Documentation, Deployment, and GitHub Portfolio Creation

Career Outcomes

Become job-ready for the following roles:

- Python Developer
- Backend Developer
- Automation Engineer
- Junior Data Analyst
- Web Application Developer

Top Industries Using Python:

Fintech | EdTech | Healthcare | SaaS | eCommerce | Logistics | AI Startups



Tools & Technologies Covered

Python 3.x | Jupyter Notebook | PyCharm | Git & GitHub | Flask | Pandas | Matplotlib | SQLite | JSON | Requests | BeautifulSoup | VS Code | Terminal & CLI Tools



Capstone Project Examples

- Web Scraping Dashboard for Product Prices
 - Python-based Inventory Management System
 - Personal Budget Tracker using Pandas & Matplotlib
 - Flask Web App for Feedback Collection
 - Resume Parser using Regular Expressions and File Handling
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Certification

Get a **Joint Certificate** from Certed Technologies + Industry Partners, along with a **Digital Badge** showcasing your Python development skills—perfect for resumes and LinkedIn profiles.



What Makes This Course Unique?

- ✓ Project-Based Learning from Day 1
 - ✓ Hands-on with Git, APIs, Flask, and Data Tools
 - ✓ Resume + GitHub Portfolio Development
 - ✓ Interview Readiness for Tech Roles
 - ✓ Lifetime Access to Course Material + Community
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Upcoming Batch

Batch Start Date	Mode	Status
15 July 2025	Online	Open
22 July 2025	Offline	Few Seats Left
05 August 2025	Hybrid	Open



Custom Python Training for Corporates



Python Enablement for Tech Teams

Python is used in everything from automation to backend development to data processing. We offer **customized corporate training** designed for various use cases—internal tool development, process automation, data workflows, and more.



Corporate Training Customization:

- **Personalized Curriculum:** Based on use case—e.g., Web, Scripting, Data, APIs
 - **Industry Projects:** Real problem-solving aligned with your tools
 - **Flexible Delivery:** Onsite, online, blended, or LMS-based
 - **Custom Certification:** With assessment metrics, co-branding
 - **Post-Training Support:** Code reviews, project consulting, scaling assistance
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Ideal for:

- Software Developers & QA Engineers
- Automation & DevOps Teams

- Data & Reporting Analysts
 - Junior Engineers or Interns
 - Product/IT Teams Transitioning to Python
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Talk to an Advisor

 Email: support@certedtechnologies.com

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Ready to Launch Your Python Career?

“The best way to learn programming is to build with Python. Let’s get started.”

[ **Enroll Now**] [ **Request a Callback**]

Frequently Asked Questions (FAQs)

- 1. Who should take this course?**
Students, job-seekers, career-switchers, and professionals who want to start with Python.
- 2. Do I need prior programming knowledge?**
Not required. We start from scratch and gradually move to intermediate and applied concepts.
- 3. Are projects included in the course?**
Yes. Every module includes hands-on projects and a real-world final capstone.
- 4. Will I learn Python for automation and data?**
Yes. The program covers Python scripting, API handling, web scraping, and basic data analysis.

5. **Do I get job assistance?**

Absolutely! You'll receive resume guidance, mock interviews, and recruiter connections.

6. **What platforms/tools will I work on?**

PyCharm, Jupyter Notebook, VS Code, GitHub, Google Colab, Flask, and more.

7. **Will I get lifetime access to materials?**

Yes. All lectures, code files, and assignments remain accessible for life.

8. **How is this course delivered?**

Choose Online, Offline, or Hybrid modes depending on your location and learning style.

9. **Can this course be customized for my company/team?**

Yes. We offer tailored Python programs for internal team training with post-training support.

10. **How many hours should I dedicate weekly?**

Ideally 6–10 hours per week to get the best hands-on outcomes.