

Location: Prabhath Arcade, No. 862 21st C Main 2nd Floor, 8th block Koramangala Bangalore-560095

C Contact: +91 9620 903 778

PYTHON

A VERSATILE PROGRAMMING LANGUAGE

Python is a versatile and in-demand programming language used across various industries. Its simplicity, readability, and extensive libraries make it popular for a wide range of applications, opening multiple career paths.



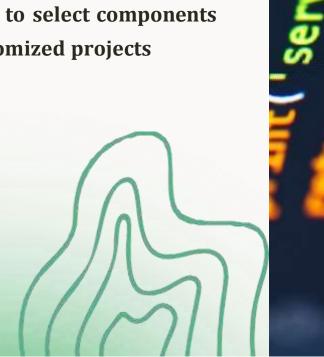
Web Development with Python

Frameworks

Frameworks provide tools that simplify development, enabling developers to concentrate on writing clean code. Django offers a comprehensive set of built-in tools for user authentication, database management, and URL routing. In contrast, Flask is lightweight and modular, allowing developers to select components as needed, making it ideal for smaller or customized projects

Roles

- Web Developer Full
- Stack Developer
- Backend Developer







Data Science C Machine Learning

1 <u>Dominance</u>

Python dominates data science due to libraries like Pandas, NumPy, TensorFlow, and Scikit-learn.

2 Roles

Data Scientist, Machine Learning Engineer, Data Analyst, AI Engineer.



Automation C Scripting

Task Automation

Python excels at task automation, making it useful for repetitive tasks and system administration.

2 Roles
Automation Engineer, DevOps
Engineer, System Administrator.



AIC Robotics

AIC Robotics

Python is essential in AI, robotics, and rapid prototyping, with libraries like TensorFlow and PyTorch.

Roles

AI Researcher, Robotics Engineer, AI Developer.



Game Development with Python

Game Prototyping

Python, with libraries like Pygame, is used for game prototyping and development.

Roles

Game Developer, Game Scripting Engineer.



Cybersecurity with Python

Penetration Testing

Cybersecurity Analyst

Ethical Hacking

Penetration Tester

Malware Analysis

Security Engineer



Cloud Computing C DevOps



Cloud-Native Development

Python is key in cloud-native development and automation, used in tools like AWS Lambda.



Roles
Cloud Developer, DevOps Engineer, Site
Reliability Engineer.



FinTech C Blockchain

- Applications
 Python is used for building trading algorithms and smart contracts.
- 2 Roles
 FinTech Developer, Blockchain
 Developer.

