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Python: “Can Python Replace Other Languages?”

There are many other programming languages besides Python which are mostly used in these areas such as data analysis, machine learning, artificial intelligence, and web development. In my perspective, Python is an excellent language especially for the beginners as it is straightforward.

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Introduction

I am a student pursuing my degree in BSIT where previously I had no exposure towards computer. So, as a student, I wanted to gain knowledge in a programming language. I learned Python in I Code Guru course and I found that it was easier compared to C++, Java. I took the course for around three months.

Python is a high-level programming language which can be applied to different types of problems. This language was invented by Guido van Rossum. Its name was inspired from Monty Python's Flying Circus, which was a television series of 1970s.

By the end of my course, I understood the need of utilizing this talent professionally. As my academic study was still going on, so I had to think about my future career path. By researching, I came to know about the area of data analysis.

Technology Overview

"Another question frequently asked is: 'Why should we study Python?'"

It is simple to learn since Python comes with easy-to-understand code compared to other programming languages such as Java. The language comes with several frameworks and libraries for web development, including Django and Flask, and data analysis, including Pandas and SciPy. The language is also the second most adopted language in 2025 and overpowers AI and data science.

Key Findings & Impact

The language has easy syntax, as well as a conducive environment to use (such as PyTorch,

TensorFlow, and scikit-learn), thus making model building, training, and deployment straightforward. These platforms come with a high-level application programming interface to create neural networks and facilitate efficient resource evaluation.

The power of its libraries, including pandas, NumPy, and Matplotlib, enables easy generation of insights.

What's Next?

Python has a promising future because it is extensively used in AI, Machine Learning, Data Science, Internet of Things, and Automation technologies. Though it is not the fastest programming language, the ease of use, huge libraries, and strong developer community make it certain that Python will continue to evolve and be among the top programming languages.

It is the ideal language to start with for those students who aspire to become Data Analysts and Data Scientists. The freelancing market for Python programmers will be mature by 2026 compared to any year before that. Remote-friendly companies are now hiring professionals with Python skills for worldwide projects. There will be ample chances for Python programmers to develop worldwide career opportunities.

About the Author

Fizza is a BSIT student interested in Data Analysis and Python. Her goal is to become a Data Analyst and also wants to learn the tools related to this field.

Keywords: Python; Data Analysis; Machine Learning; Artificial Intelligence; Career Development; Pakistan Tech

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