Week 1 Lecture : 2 (Python Intro)
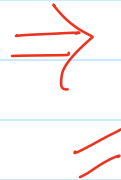
Python Intro

Python is a high-level, interpreted, general-purpose programming language

developed by Guido van Rossum.

What is Python used for?
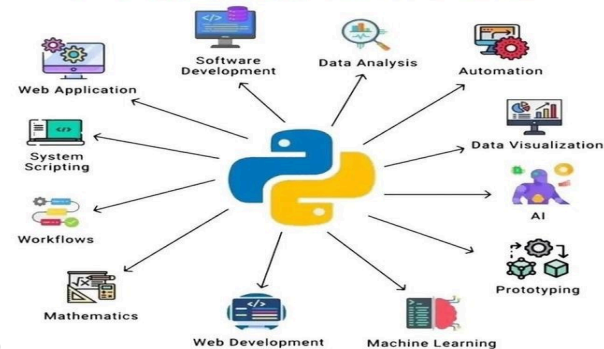
1. Python for Programmers

2. Python for AI and Machine Learning

3. Data Analytics and Data Science

4. Web Development and Game Development

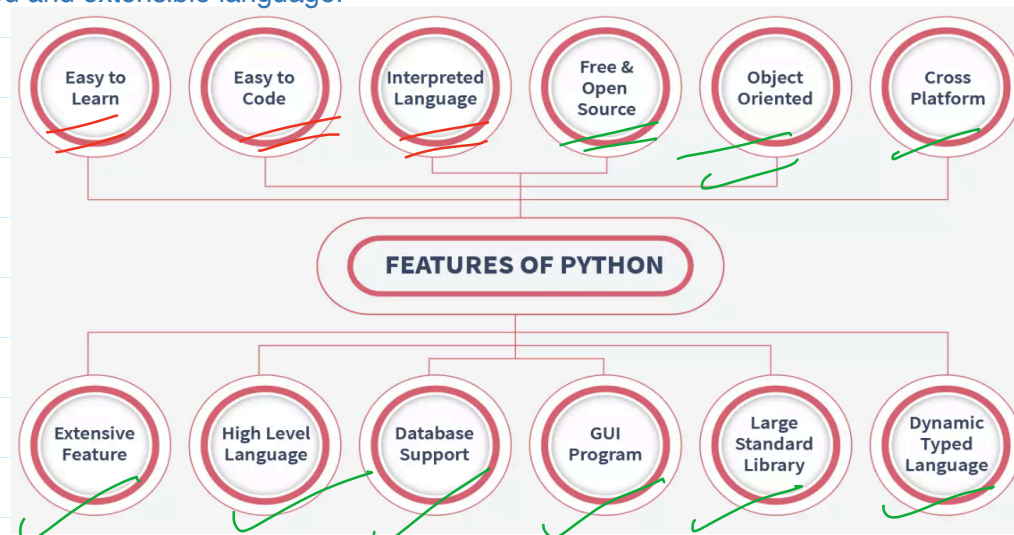5. Highly compatible with all major platforms

Why is Python so popular?

1. Python is easy to learn

2. Python boasts a variety of libraries, frameworks, and packages.

3. Python and its applications.

4. Python is a dynamically typed and extensible language.

FAQ

Q. Is Python suitable for beginners?

Python is highly recommended for beginners due to its straightforward syntax, closely resembling English. This simplicity reduces the learning curve and helps

novices understand programming concepts without getting bogged down by complex syntax.

Q. Who uses Python today?

Python is used by many professionals, including software developers, data scientists, AI and machine learning engineers, network engineers,

and more. Major companies like Google, Facebook, Instagram, Spotify, and Netflix use Python in various capacities.

Q. What types of jobs use Python?

Python is used in many job roles, such as:

- Web development
- Data analysis
- Artificial intelligence
- Scientific computing
- Cybersecurity
- Automation

Q.How does Python perform in machine learning and data science?

Python is a powerhouse in the machine learning and data science fields. Its strength lies in various specialised libraries, such as TensorFlow for

machine learning, Pandas for data manipulation, and Matplotlib for data visualisation. These tools, combined with Python's ease of use and

community support, make it a top choice for professionals working with data, machine learning models, and statistical analysis.