



1) Why am I learning this course?

2) How should I learn to become job-ready?

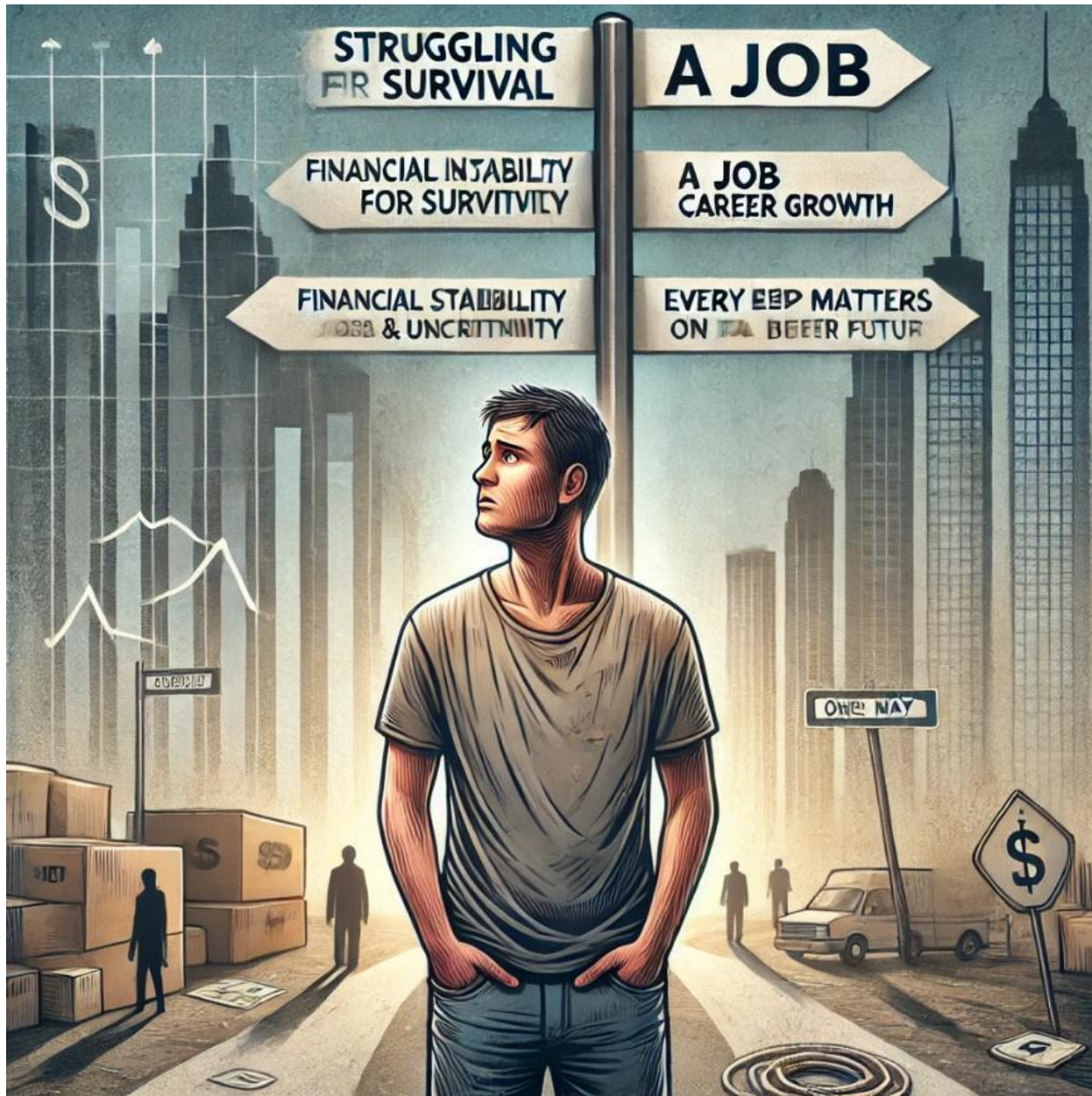
3) Where will I be after completing these classes?

- No prior coding knowledge Required
- No prerequisites required

[Download the Notes from Description Box](#)

The only things needed are

- consistency
- willingness to learn.



STRUGGLING  
FOR SURVIVAL

A JOB

FINANCIAL INSTABILITY  
FOR SURVIVAL

A JOB  
CAREER GROWTH

FINANCIAL STABILITY  
JOBS & UNCERTAINTY

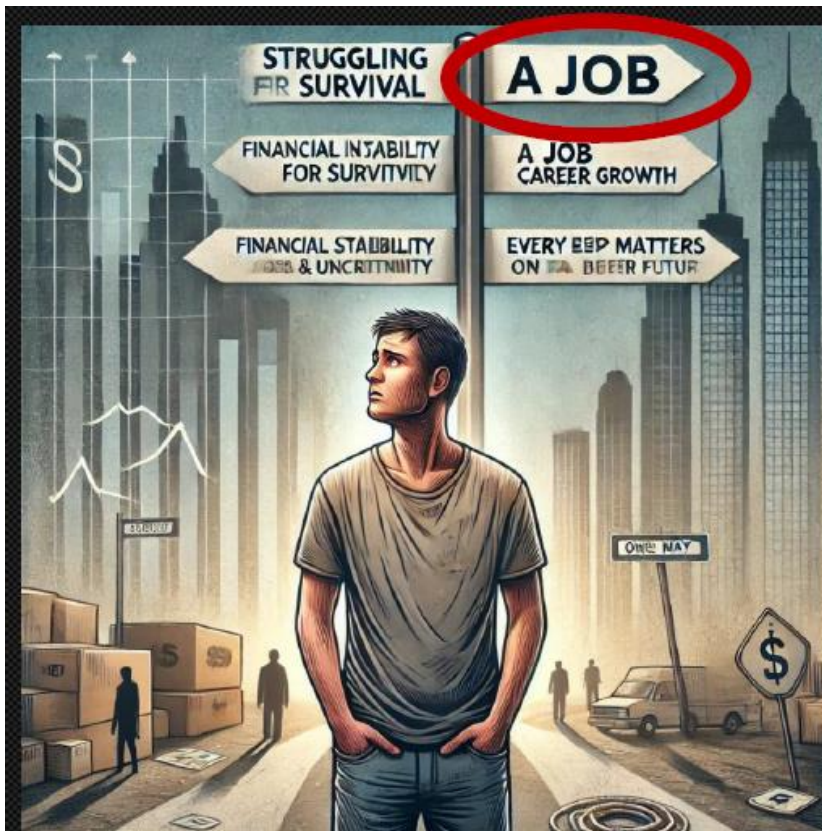
EVERY STEP MATTERS  
ON THE BRIGHT FUTURE

ONE WAY

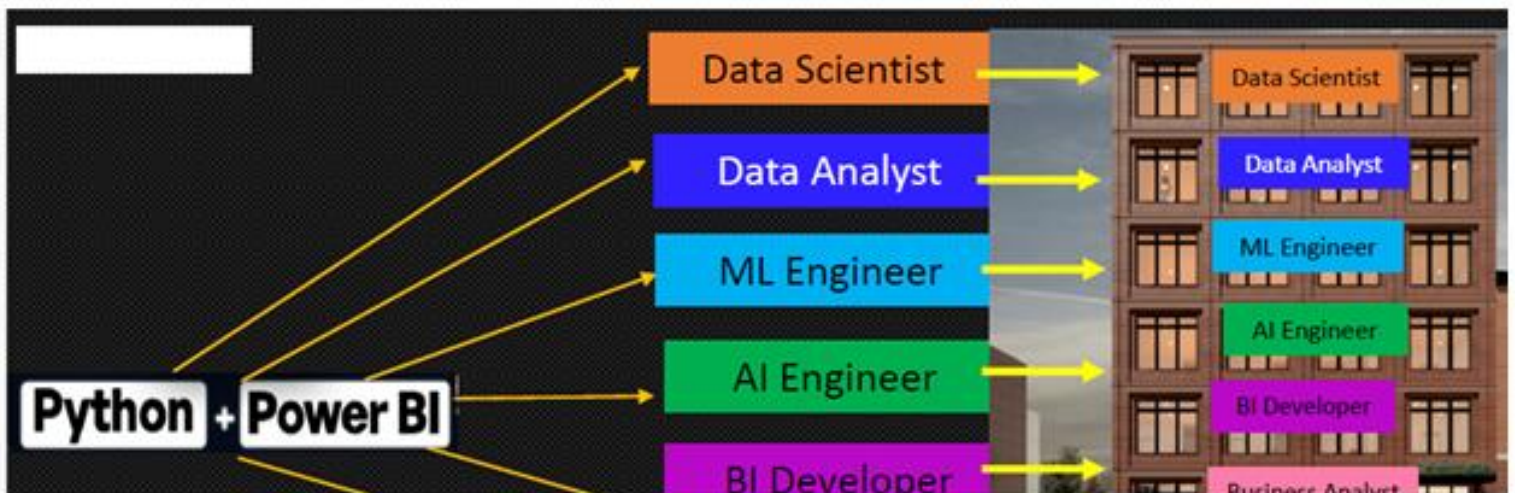
ONE WAY

\$





Why am I learning these course?



Approx **15–20 lakh companies** use **Python** in some capacity worldwide.



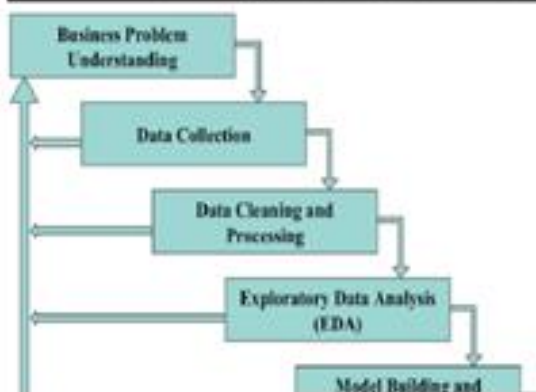
Python is the 2nd most-used language globally on GitHub, with millions of repositories and contributors from organizations.

Over 85% of data scientists and AI engineers use Python.

Python powers AI in Google, Meta, Netflix, Amazon, Microsoft, and OpenAI for core projects like ChatGPT, recommendation systems, and autonomous systems.

Surveys show that 9 out of 10 AI/ML engineers prefer Python over other languages like Java or C++ for their flexibility and efficiency.

## AI-powered Recommendation System





**(a) Generative AI (Gen AI)**

Examples: ChatGPT, Deepseek, DALL·E, Midjourney, Stable Diffusion.

**(b) Agentic AI**

Examples: AutoGPT, BabyAGI, Devin AI.

**(c) Predictive AI**

Examples: Stock market prediction, weather forecasting models.

**(d) Conversational AI**

Examples: Chatbots like ChatGPT, Bard, and Alexa.

**(e) Autonomous AI**

Examples: Tesla FSD, Boston Dynamics' robots.

**(f) Cognitive AI**

Examples: IBM Watson.

**(g) Explainable AI (XAI)**

Used in healthcare, finance, and regulatory industries.

PYTHON

**AI , Python & Jobs**

OpenAI

Google DeepMind

Google AI (Brain Team)

Microsoft AI

Meta AI

Anthropic

Hugging Face

Stability AI

NVIDIA AI

Tesla AI

Amazon AI (AWS AI/ML)

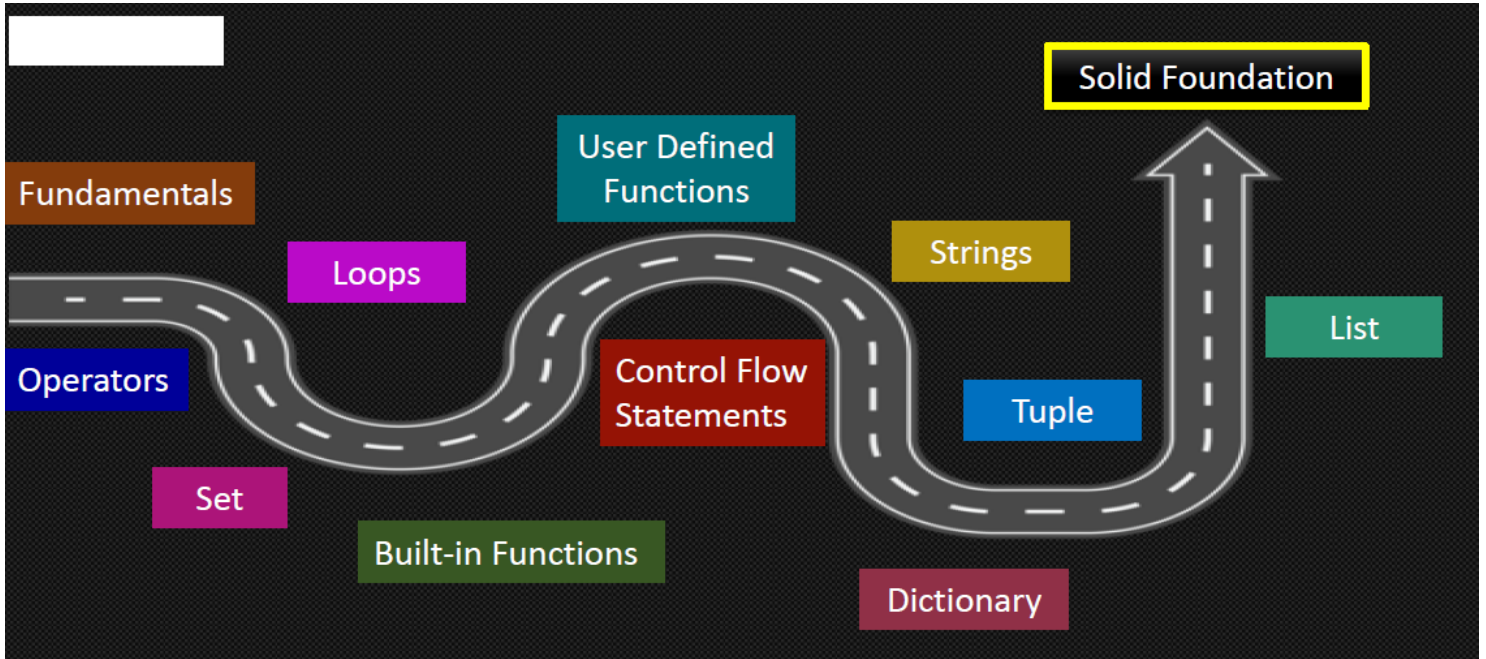
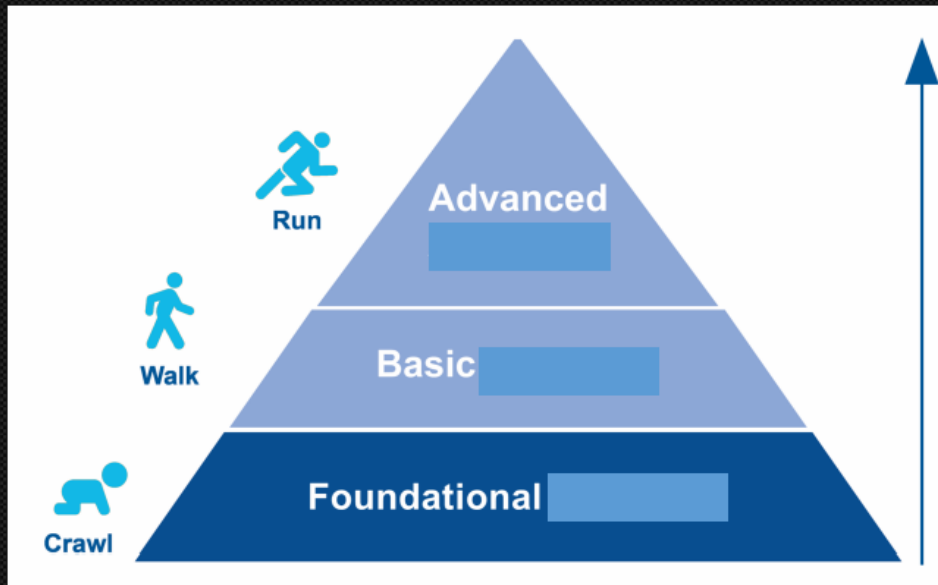
IBM AI (Watson AI)

Cohere

xAI (Elon Musk's AI company)

Alibaba DAMO Academy

How should I learn to become job-ready?



Where will I be after completing these classes?



## The Basics of Python Programming

### A Brief History of Python

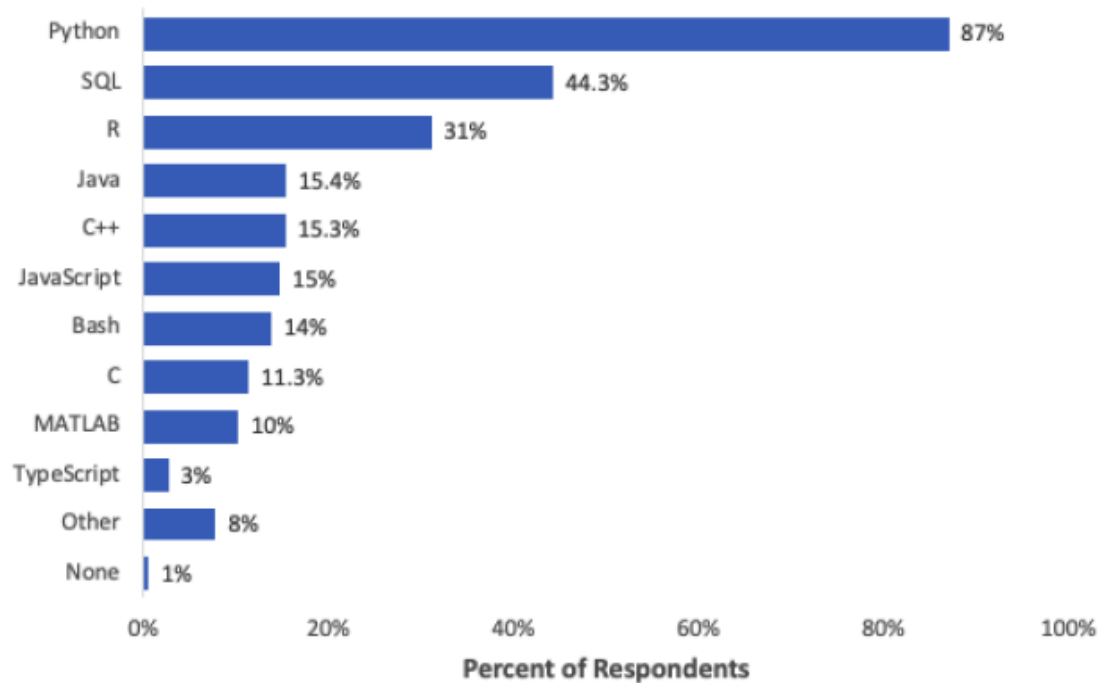
Python is a high-level, general-purpose programming language that was created by Guido van Rossum and first released in 1991.

On November 2020 Van Rossum holds the title Distinguished Engineer at Microsoft.

Van Rossum is now part of a team at Microsoft working to speed up the language's performance. And recently a Microsoft blog post reported that Python 3.11 had brought speedups of 10-60% to some parts of the language.



## What programming languages do you use on a regular basis?



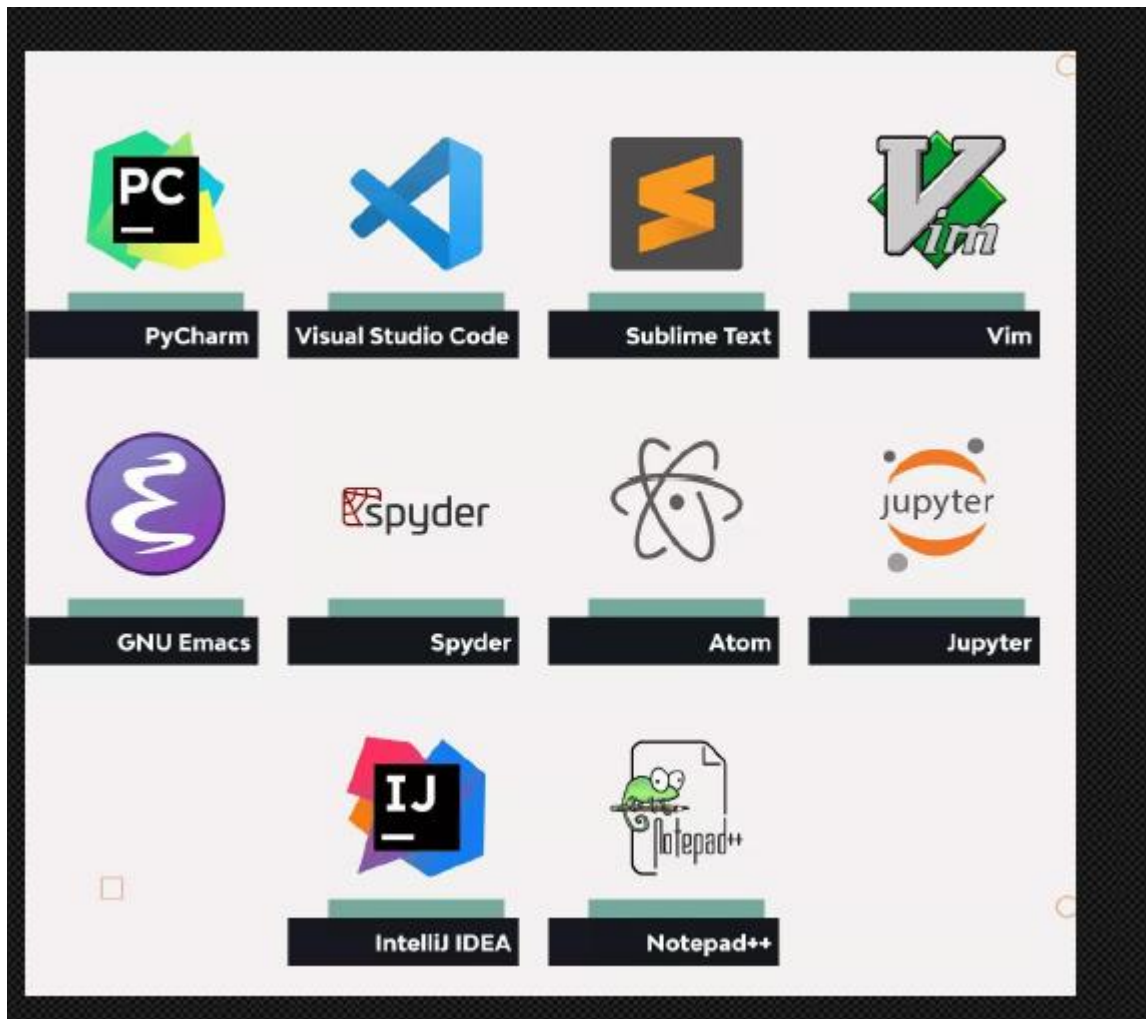
Note: Data are from the 2019 Kaggle ML and Data Science Survey. You can learn more about the study here: <https://www.kaggle.com/c/kaggle-survey-2019>.



## What is an IDE?

An Integrated Development Environment (IDE) is a software application that provides comprehensive facilities for software development.

It typically includes a code editor, a compiler or interpreter, build automation tools, debugging

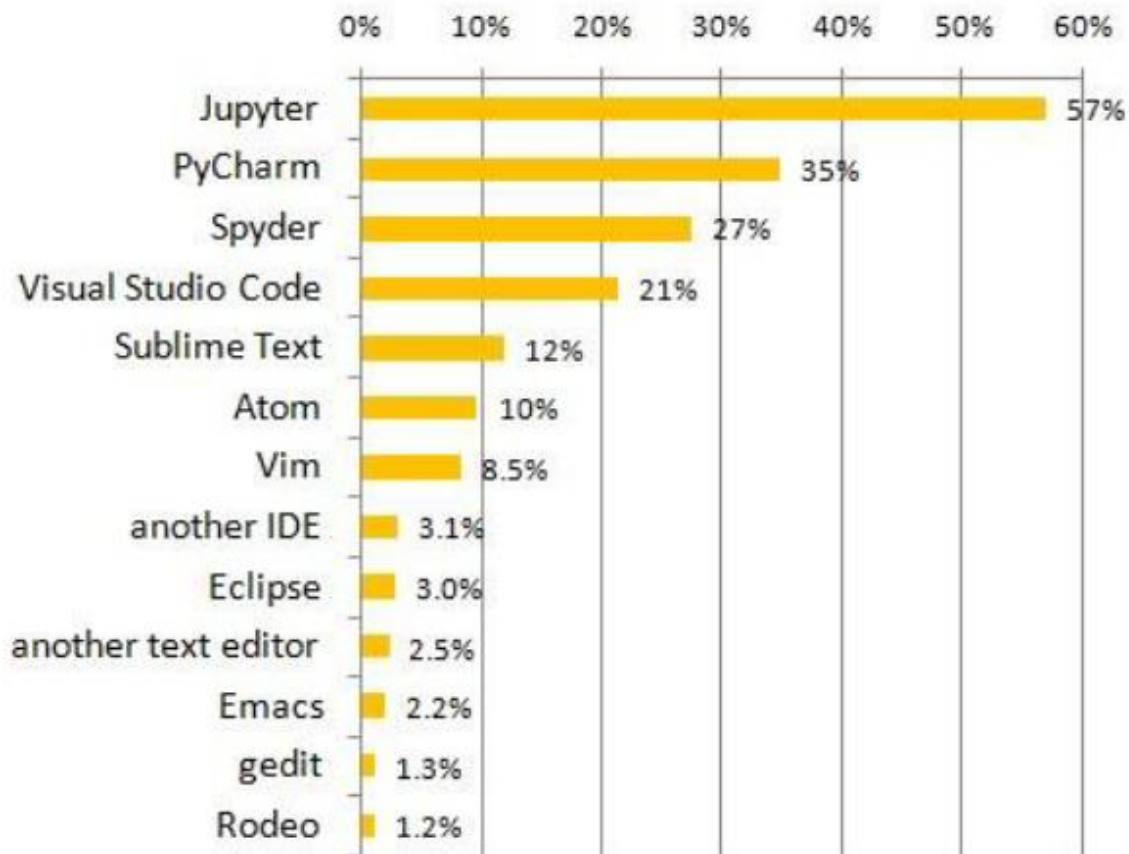


## Jupyter Notebook

The Jupyter Notebook is the original web application for creating and sharing computational documents. It offers a simple, streamlined, document-centric experience.

It is an interactive computational environment, in

## Most Popular Python IDE, Editors





### Practice Question - 1

How do you write a single-line comment in Python?

- a) `// This is a comment`
- b) `# This is a comment`
- c) `/* This is a comment */`
- d) `<!-- This is a comment -->`

THE VISCAL

### Practice Question - 2

How do you write a multi-line comment in Python?

- a) `/* This is a multi-line comment */`
- b) `// This is a multi-line comment`
- c) `" " " This is a multi-line comment " " "`
- d) `<!-- This is a multi-line comment -->`

### Practice Question - 3

Which of the following statements is true about Python?

- a) Python is a statically typed language.
- b) Python is not suitable for machine learning tasks.
- c) Python is not an open-source language.
- d) Python uses indentation to define code blocks.

## Day 1 - Installation of Annaconda Navigator into the system & Launching of Jupyter Notebook

### writing the first "hello world" Proagram

```
In [12]: print("hello world")
hello world

In [13]: print(2*3)
5

In [14]: import sys
sys.version

Out[14]: '3.9.13 (main, Aug 25 2022, 23:51:50) [MSC v.1916 64 bit (AMD64)]'
```

### python comments

Creating a Comment

```
In [15]: #This is a comment
print("Hello, World!")
Hello, World!

In [16]: print("Hello, World!") #This is a comment
Hello, World!

In [17]: #print("Hello, World!")
print("this is python class")
this is python class
```

### Multiline Comments

```
In [18]: #This is a comment 1
#This is a comment 2
#This is a comment 3
print("Hello, World!")
Hello, World!

In [19]: """This is a comment 1 """
print("hello world")
hello world
```