## Introduction

23 December 2024

9 years into IT

-> 4+ into pata domain

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-> M L

-> DL (CV, NLP, Gen AI)

-> I handle 5 Mombers.

who is Data Analyst To

Data Engineer)

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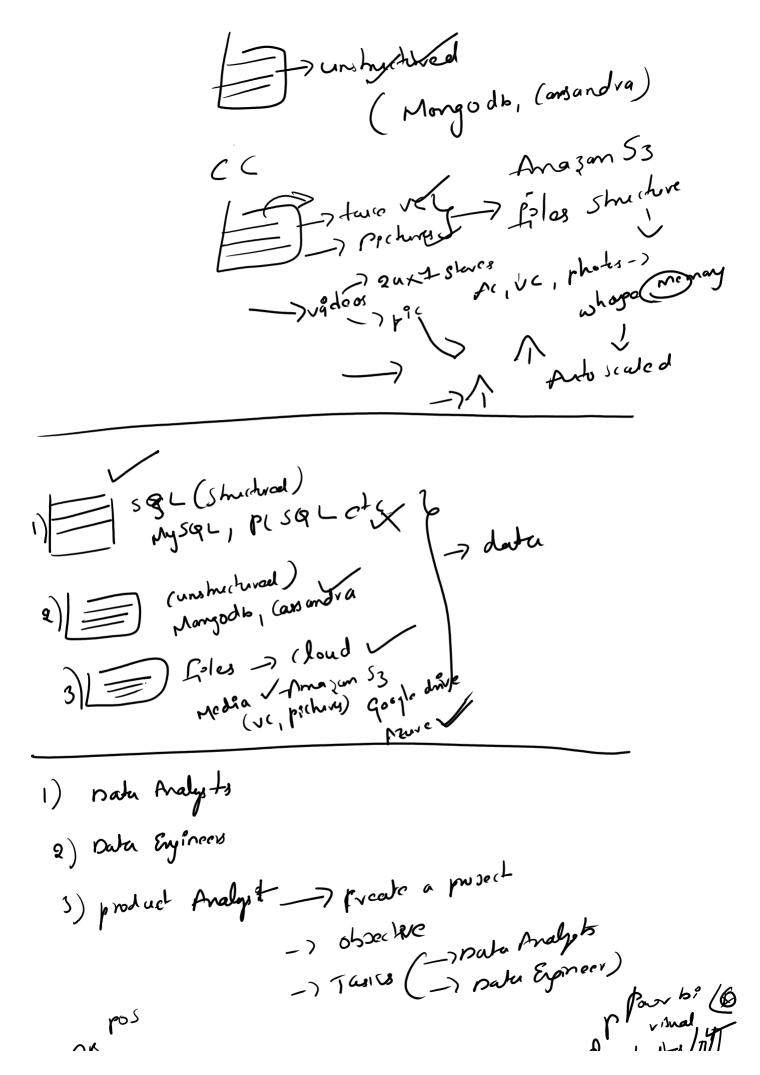
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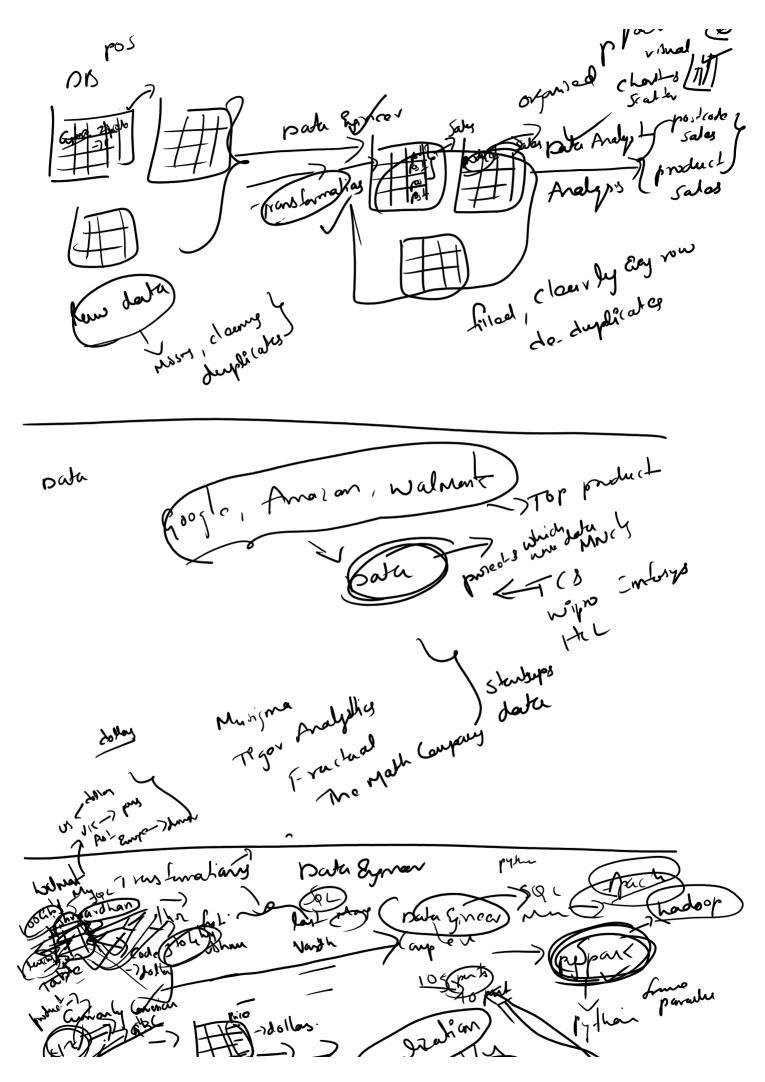
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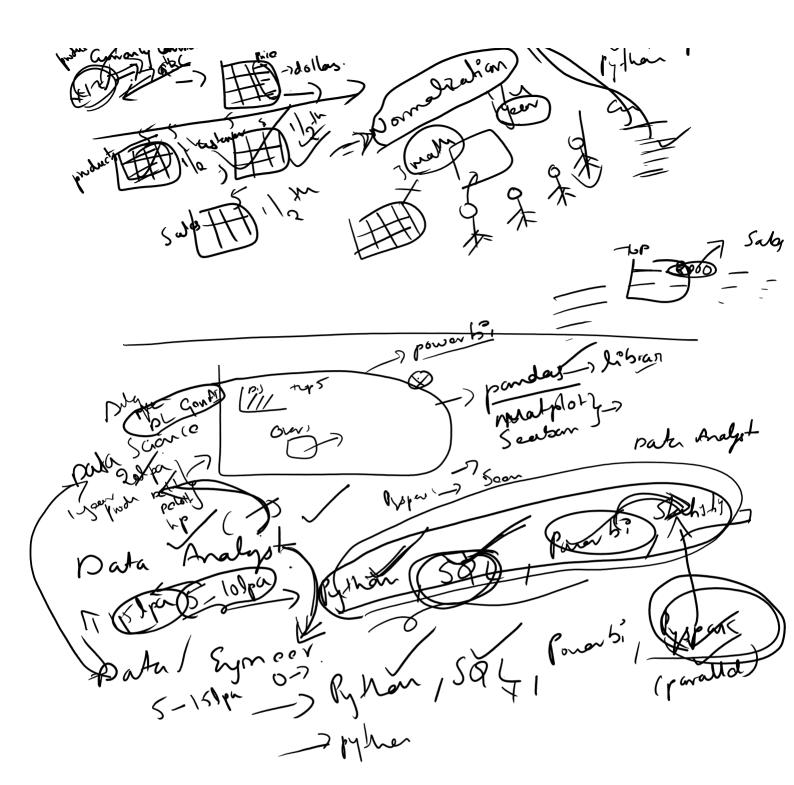
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PLSQL(shudwed)-> Mysqu, PLSQL







# Agenda

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- 1. What is python and why to choose it
- 2. Launching Google colab and how to use it
- 3. Overview of Python Data types
- 4. Keywords & Identifiers

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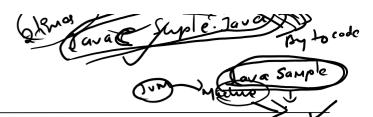
Python is a high-level, interpreted, and versatile programming language known for its simplicity and readability.



To run python we just have to use syntax: python xyz.py

Step1- compile using explicit compiler: javac xyz.java generates xyz.class (byte code)

Step2- Interpret using JVM: java xyz (converts xyz byte code to machine code)



Why python is versatile?

Python is used in wide range of applications

a) Web Developments Hameworks like Django, Flask, and FastAPI make it easy to build web applications

b) Data Science and Machine Learning
Libraries like Numby, pandas, scikit-learn, Kerss, and PyTorch are widely used for data analysis, modeling.

c) Scripting and Automation
Python is used in automating repetitive tasks, web and mobile applications automation, web scraping etc(e.g., using Selenium or Beautiful Soup).
d) Network Programming

Python supports network programming using PyATS, Pytest etc.

e) Desktop GUI Applications

Python frameworks like PyQt, Tkinter allow for building cross-platform desktop applications.





Url: https://www.python.org/ (Ma(OS, windows, Qnux)
Release Schedule

32-bil,
64-bil

## Launching Google-colab and how to use it

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#### Points to be discussed:

- 1. Creating new notebook
- 2. Opening an existing notebook from local or google drive
- 3. Setting up GPU for high computational tasks
- 4. How to Effectively use colab
  - 4.1 Text feature
  - 4.2 Use AI to generate code snippets and Explanation
  - 4.3 Use Integrated Gemini Feature

Pew Editors: - (Vscode, pycharm, Jupyter Notechook

# Overview of Python Data types

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### Python offers multiple data types

Most important and which are used in industry are:

Int	a=200
Float	a=2.3
Boolean	a=True
String	a="datadreamers.ai"
List	a=[1,2,3,4]
Tuple	a=(1,2,3,4)
Set	a={1,2,3,4}
Dictionary	a={"x":1,"y":2,"z":3}
NoneType	a=None

# **Keywords & Identifiers**

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**Keywords**: Keywords has special meaning in python and cannot be altered.

**Identifiers:** Identifiers used to identify or represent a variable, class, function, object etc.

Conditions to be an Identifier:

- . It should start with alphabet or \_
- . It can be followed by 0 or more characters, digits and \_
- . Keywords cannot be used as Identifiers