24th Aug 2025 – 28th Feb 2026 Datascience@1

Python In-depth – root for all

Machine learning

Statistics

Generative AI

Agentic AI

AGI

Data analytics

Data science

Machine learning Engineer

AI Engineer

GEN AI engineer

Agentic AI Engineer

Install software

Anaconda, VSCode, Pycharm, google colab, cursor ai (agentic ai), cline ai (agentic ai), windsurf, lovable, AI tools

Google colab

A close up of a screen

AI-generated content may be incorrect.

+ code is to add cell

1st code is numbers like 1,2,3

In Statistical term number are called as numerical data

In statistical term Text is called as categorical data

BODMAS

B bracket

O order

D division

M multiplication

A addition

S subtraction

1+2 – 1,2 are Operand and + is Operator

Matplotlib – for visualization

import matplotlib.pyplot as plt

plt.plot([1,2,3,4]) – linear

plt.plot([1,2,3,4], [1,4,9,16]) – non linear

Linear graph – y =mx+c

Comment - plt.plot([1,2,3,4]) #simple linear line (y = mx + c) degree -1

plt.plot([1,2,3,4], [1,4,9,16]) – #non linear graph with 2nd degree

plt.plot([1,2,3,4], [1,8,27,64]) - #non linear graph with 3rd degree (1\*1\*1, 2\*2\*2, 3\*3\*3, 4\*4\*4)

\_+3 = \_ means it stored previous value

Notebook extension - .ipynb (interactive python notebook) – downloaded from googlecolab

Python - .py

Upload to github – by dragging and dropping

To delete repository, go to account name, select repository, go to settings, go down and click on delete repository, copy repository name and paste it and delete

Posting repositories copy from browser and share it - [venkatakotaiah1983/AI\_GEN-AI\_AGENTIC-AI](https://github.com/venkatakotaiah1983/AI_GEN-AI_AGENTIC-AI)