Ground Rules

→ Quest^{n} tab for Quest^{n}

→ All the handwritten & code notebook

→ Pre-read | Post-read are mandatory

★ whatever we are doing

+ industry perspective
+ Machine learning journey

Python

full stack Data Scientist

Analytics world + Machine learning (ML engineer)

AI

ML ops

→ AI Scientist

C_1 → 5 lacs | Months

C_2 → 5 lacs | year

↓

Infosys, ITR (3 year)

give me some characteristic

C_1 → Bangalore, Kingfisher,
Kingfisher tower,
Debt → 8500 crore

✓

1 yr exp → ₹10K

2 yr exp → ₹20K

3 yr exp → ₹30K

6th year → 60K

1Mn professionals

↳ 10%

↳ 20%

↳ yearly hike

1Mn Rows

data → perfect

EDA → Exploratory Data Analysis

- Irrelevant noise from data
- Outliers → 20yrs | Btech MBA | 8 crore

20yr ≟ 3 lacs | Month

- Corrupt data → 10,000 → int
  10K → string
  (mean,
  mean
- Zomato → 4.1/5 → mean 4.1

Python

Jugle → hunt → cook
↓
serve

Zomato | Swiggy → ___

→ Library → 100% Data Scientists

Numpy ✓, | Pandas ✓ |, Matplotlib | seaborn

Llama (LLM)

↑

Python

Numpy, pandas, tensorflow, Pytorch (facebook)

↑ libraries on top of it

Python (High level language)

↑

little bit human friendly { C++, C

↑

(low level language) Assembly language

Machine

a → 10110
b → 110010

1010110
Binary

Semi-conductor → Chips

⇓

Sand (___)

electricty →

Sand

Notebook → { colab
Google }

Pycharm, Vscode
Anaconda

GPU
free

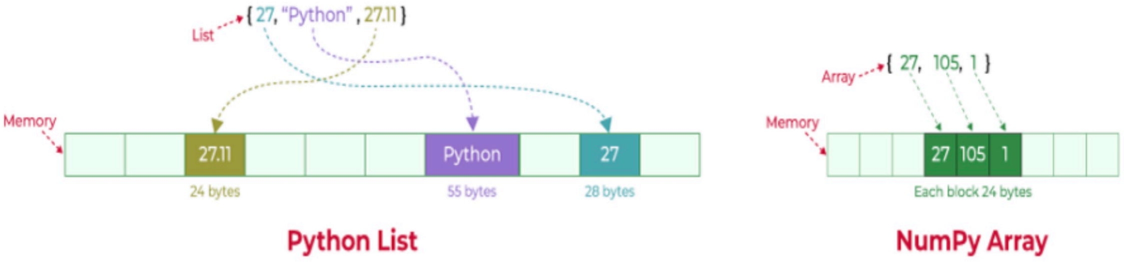
↑
no. dependency on hardware

Python
Numpy
Numerical

Python << Numpy (for numerical operations)

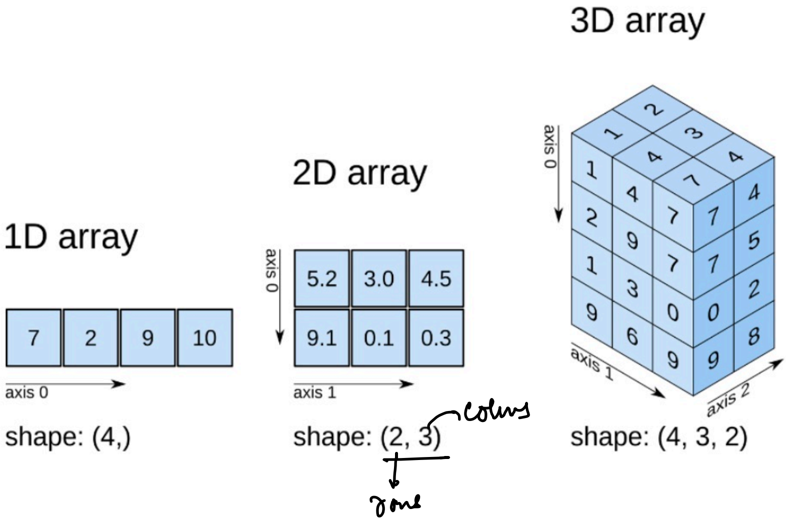
Parrallel operations are possible

1



2 Parallel in numpy

↳ Divide & Conquer → does task in parrel



2D array

rows colums

$x[\ \underset{\uparrow}{\_\_\_}\ \ \ \_\_\_\ ]$

In a (m, n) array, what shape is returned by `arr[:,0]` ?

2D-Array