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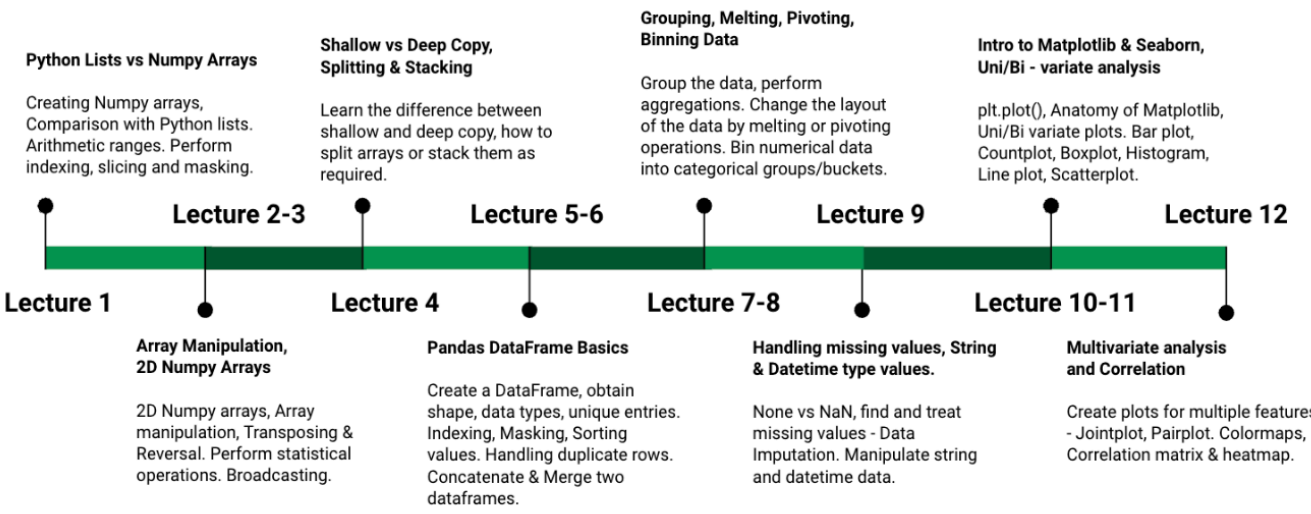
DAV → Data analysis and Visualization

9 Numpy, Pandas and Seaborn matplotlib

DAV Part 1



DAV Part 2

Probability and Statistics

DAV Part 3

Hypothesis testing

Agenda

- What and Why : Numpy
- Array : Dims and Shape
- Type Conversions
- Indexing and Slicing
- NPS Use-Case

List Vs Array

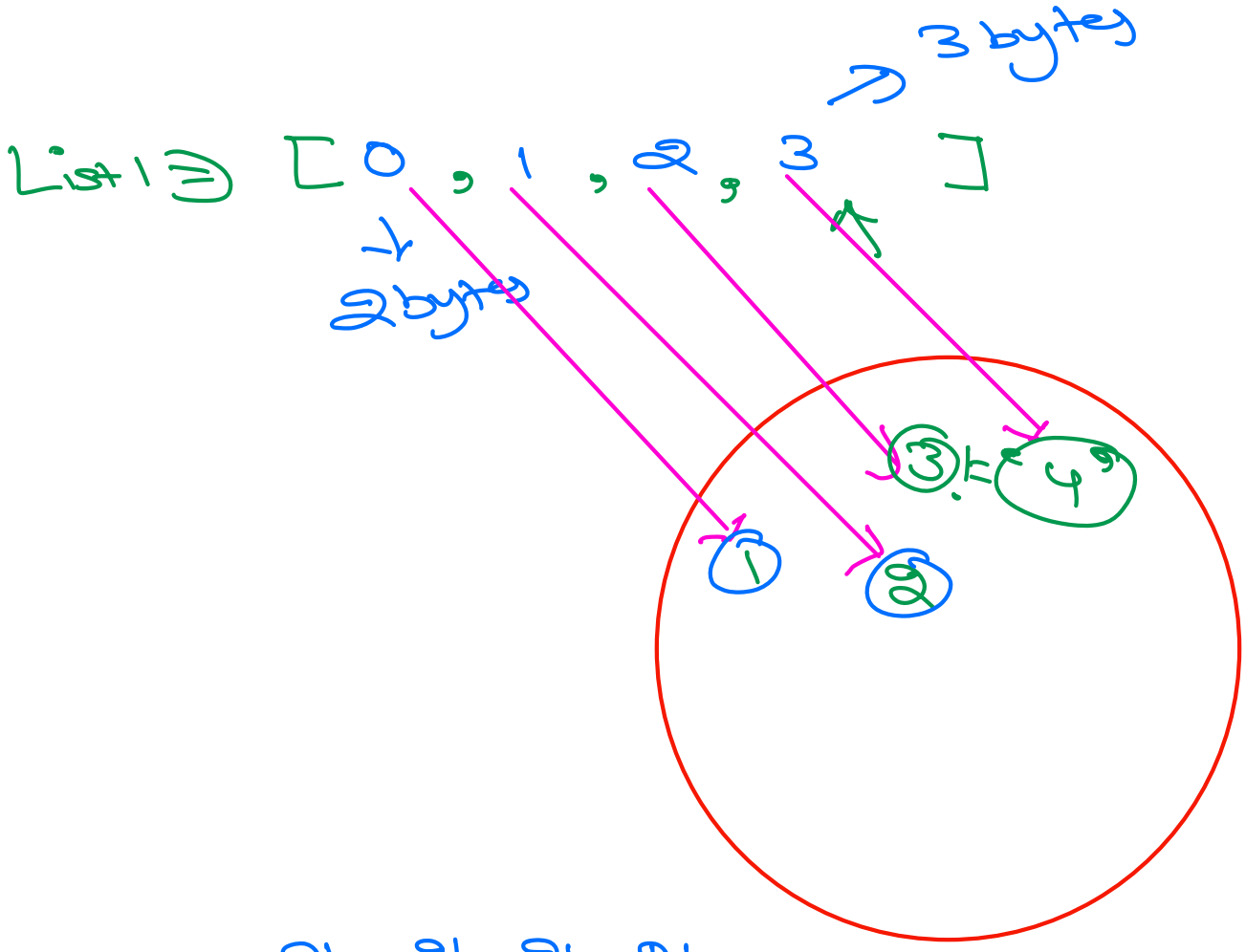
Array	List
Homogenous	Heterogenous
Static	Dynamic

Ex : [1, 2, 3, '4']

nums

str list

Array faster or list?



2by 2b 2b 2b

[1, 2, 3, 4]

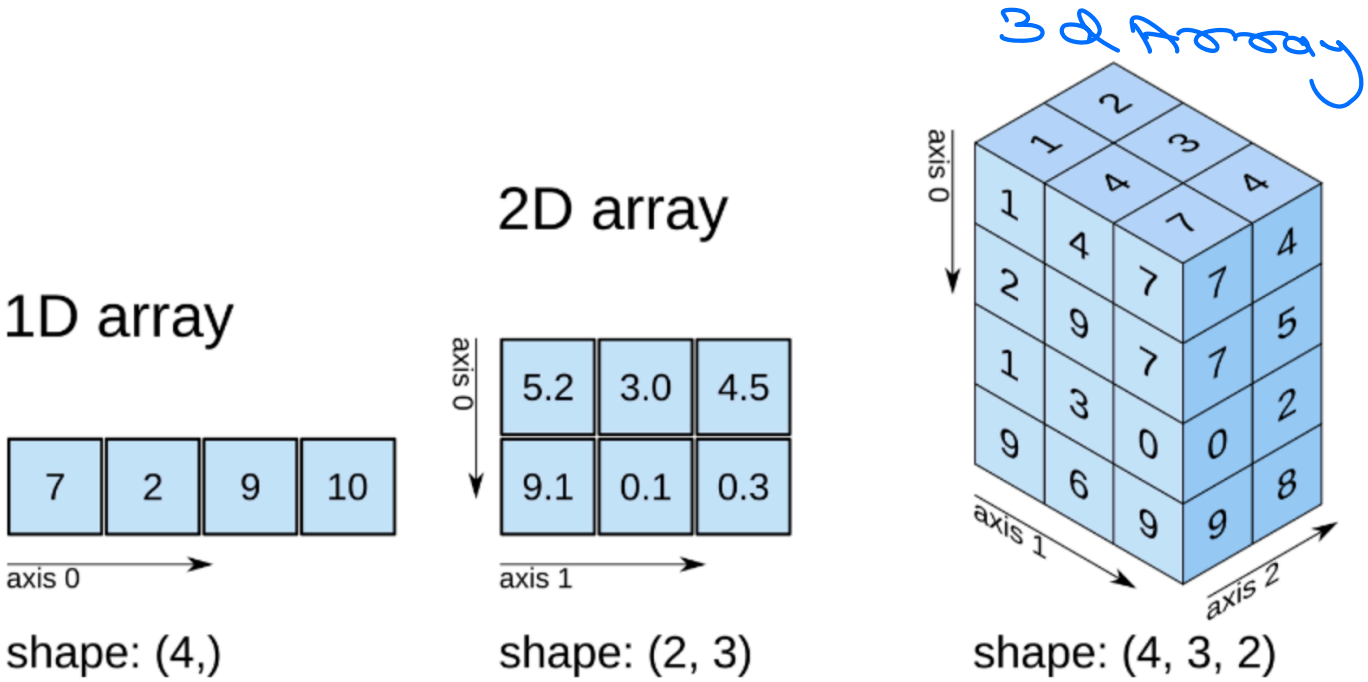
- Same datatype
- Contiguous block of memory

* Numpy Array

- C is used for implementing
- Python (Wrapper)

- Manipulate, create and process Array

All the concepts of List such as slicing indexing and methods (Sum, len) are same in numpy as well



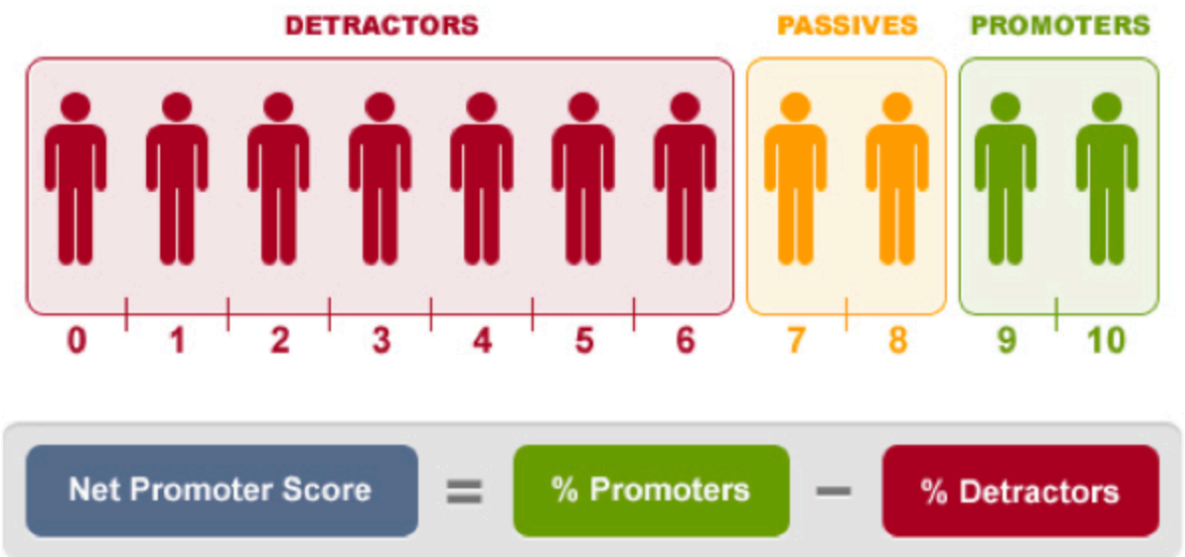
5년 Avg : 91%

NPS

● Net Promoter Score

How likely is it that you would recommend [company X] to a friend or colleague?

0	1	2	3	4	5	6	7	8	9	10
Not at all likely										Extremely likely



● Calculate: NPS

Detractors: Respondents with a score of 0-6
Passive: Respondents with a score of 7-8
Promoters: Respondents with a score of 9-10.