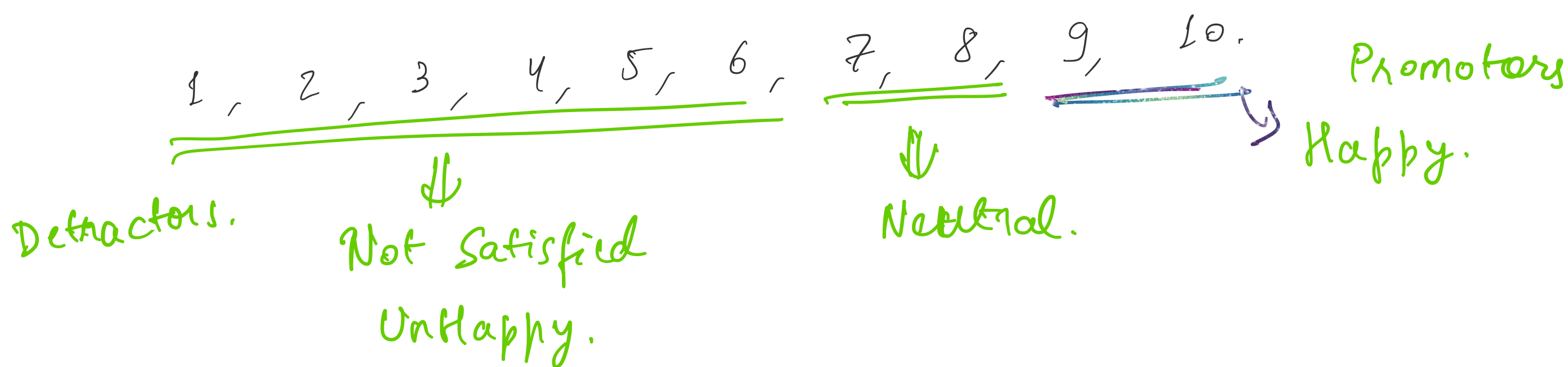


Welcome to DAV (Data Analysis & Visualization)

- 1) Python libraries. \rightarrow Numpy, Pandas, Matplotlib, Seaborn
 - 2) Probability & Statistics
 - 3) Hypothesis testing
- $\xrightarrow{1 \text{ month}}$
 $\rightarrow 2 \text{ or } 3 \text{ months}$

NPS \rightarrow Net Promoter's Score.



NPS = Promoters - Detractors.

S1.

100 \rightarrow 80 \rightarrow Promo.
20 \rightarrow Neutral
20 \rightarrow Detractors.

$$\text{NPS} = 80 - 20$$

$$\Rightarrow 40$$

$$\text{NPS S1} = \text{NPS S2}$$

S2

300 Students \rightarrow 180 \rightarrow Promo
 \rightarrow 60 \rightarrow Neutral
 \rightarrow 60 \rightarrow Detractors.

S2 \Rightarrow NPS = 180 - 60

$$\Rightarrow 120.$$

NPS \Rightarrow % Promoters - % Detractors

$$\Rightarrow \frac{60}{100} - \frac{20}{100} \Rightarrow \frac{40}{100}$$

$$\Rightarrow 0.6 - 0.2$$

$$\Rightarrow 0.4.$$

$$-1 \leq \text{NPS} \leq 1$$

$$\text{NPS} = -1$$

$$\text{NPS} = 1$$

$$\rightarrow \frac{100}{100} - 0 = 1$$

$$= 0 - 1 \Rightarrow -1$$

$$\text{NPS} = 0.$$

$$\Rightarrow 0.33 - 0.33 = 0.$$

Numpy. \Rightarrow Numerical Python.

List $a = [1, 2, 3, 4, 5]$ \rightarrow Homogeneous.

$b = [1, 2, \text{"Abhishek"}, 5.6]$ \rightarrow Heterogeneous.

int string float

Array $\rightarrow a = [1, 2, 3, 4, 5].$

Array
 \downarrow
Numpy \rightarrow C
 \downarrow
Python

(1) Installing Numpy \rightarrow pip install numpy.

(2) Importing \rightarrow import numpy as np