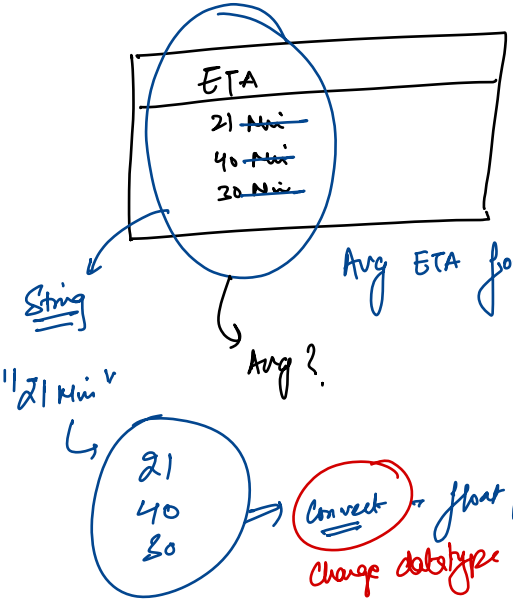
Agenda → In-built functionalities of numpy through a simple case study.



Astype → type conversion.

Numpy Basics

Zomato → Customer_ids

Automatically create numbers.

np.arange (start, end+1, step_size)

1 101 ⇓ By default = 1

(10, 2) → elements → 20

np.reshape (5,4) (2,10)

(20,1)

(1,20)

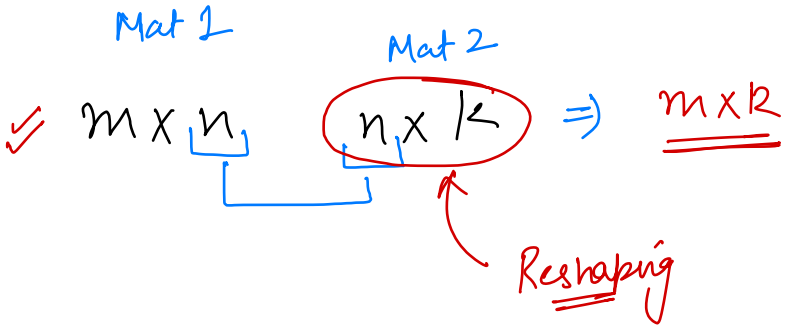
(4,5)

(1024, 4)

reshape ?] numpy can calculate on its own

Why Reshaping ?

Bonus: Neural networks



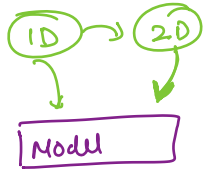
Original 2D → (10, 2) ⇒ 20 elements

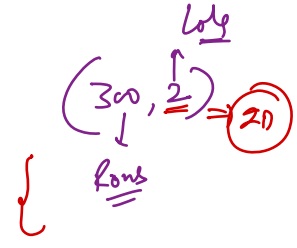
3x3 → X ⇒ 9 elements

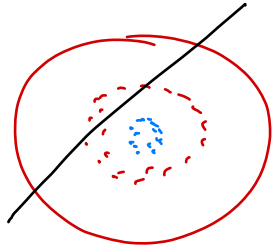
(5, 2) → X → 10

(5, 4) → ✓ 20 elements

Real world perspective







2D → Reshape (3D)

[1, 2, 3, 4]

asc

String ["1", "4", "9", "11"]

["C", "E", "A", "B"]

sorting ["A", "B", "C", "E"]

S→
U
R→
A → 65
A → 65
J→

1
2
3
9