## Dim ensionality

- refers to the number of featurs AKA

Damentions, variables or attributes in a date set

the data set has

6 features so dimentionally = 6

The observations = entries/instance

į.	10	Feat	ure		6 Fe	tur.	'5
2	4	Name	age	Height	WIIJH	Genter	city
Sar S	0	Alice	25	165	60	Femor	NYC
	1	BOB	30	180	70	MALE	NYC
3	2	Ali	20	168	58	Male	tounts

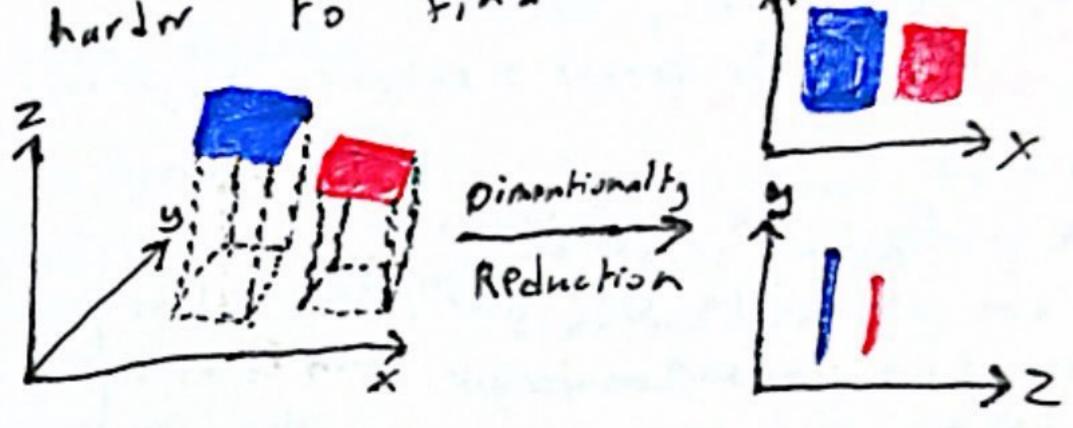
# High Dimentional Data, having many Features can
pose onique challenges, called "The curse of Dimentionality"

- and pattions become harder to find
  - Oimentionality.

    Reduction is important

    Il see Dimentionality reduction

    Foric
  - The past few topics
    and more all all part
    of Data preprossessing



Preprossing Engineering Senting Dimpationly Reductes.

Techniques

Techniques

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Target (output) only for superiors

- is what a ML model is trying to predict based on the features (input), for Ex in the house price prediction model from "Model" chepter the target is the price of the house while safe is input or in email detector its target = spanner not spanner

# in labeled dala, fraing
duta must include Bill
Features and corresponding turget ral

inpat, Frame Model -> (ourput, target)

· Br	rakdown of	terms
term	used In	Meaning
tarjer/ Jable	beneal ne	trying to greatet
	31-1,511,311	en imput Features
Class	classification tasks	Belongs to eg: cat 1009
	/	final result of Model
Response vir	Stats	AKA Dependent Var