

Agenda for today

- 1) Intro & Polls
- 2) Summary of what we have learnt before
- 3) 10,000 ft overview of ML
 - ML ? ML v/s SDE
 - ML Tasks
 - Types of Learning
- 4) Applications
- 5) Cars 24 Dataset (Time Permits)
- 6) Doubt - Solving Session (11:15 pm)

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

$$P(\text{diabetic} | w > 120) = p_1$$

$$P(\text{diabetic} | w > 120, h > 6) = p_2$$

↓
Target

Q) $p_1 \geq p_2$
↑
features

$$w_1, h_1 \rightarrow p(d | w_1, h_1)$$

$$p(\text{diabetic} | h=6, w=120, \text{age}=50, \text{gender}=\text{Male})$$

→ 0.3

$$p(\text{diabetic} | h=5.8, w=125, \text{age}=55, \text{gender}=\text{Female})$$

$$(h, w, a, g)$$

(5.8, 125, 55, Female)

→ features → 2D vector

100 data-points

	h	w	a	g
s ₁				
s ₂				
s ₃				
⋮				
s ₁₀₀				

↓

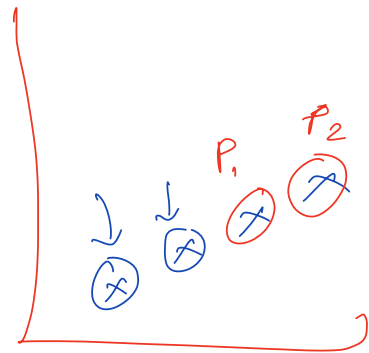
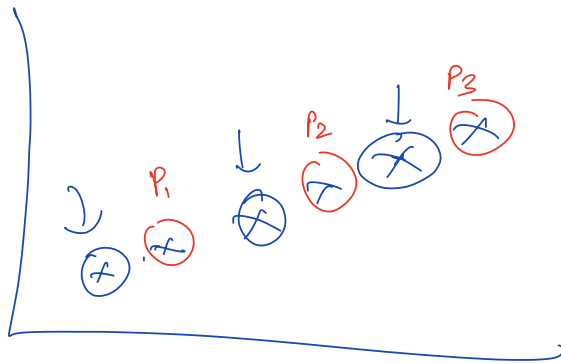
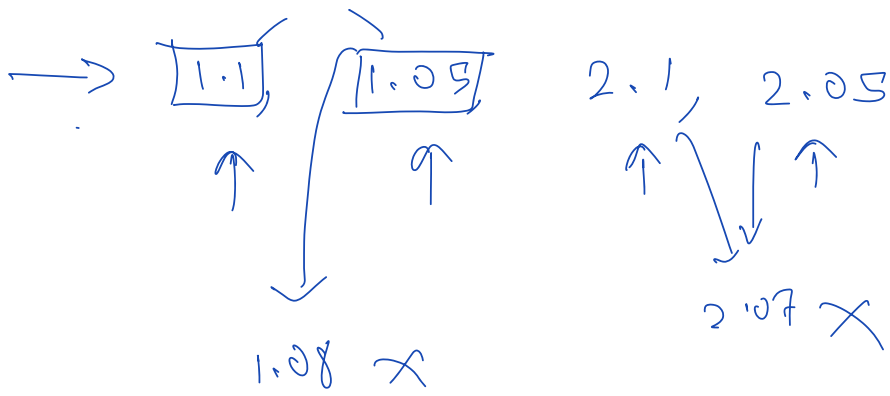
2D Matrix (100 × f)

rows

(data-points #)

columns

(features #)



Regression