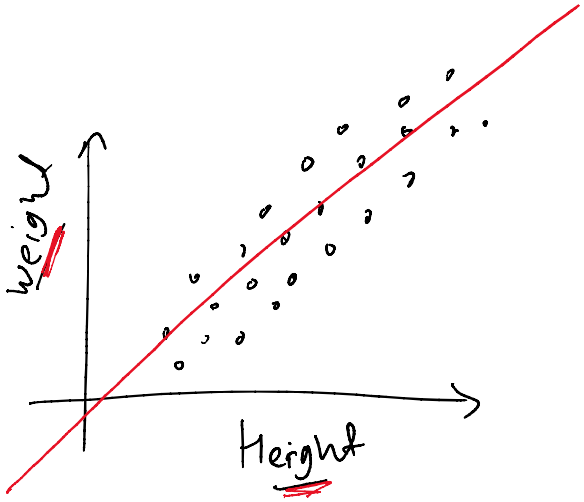
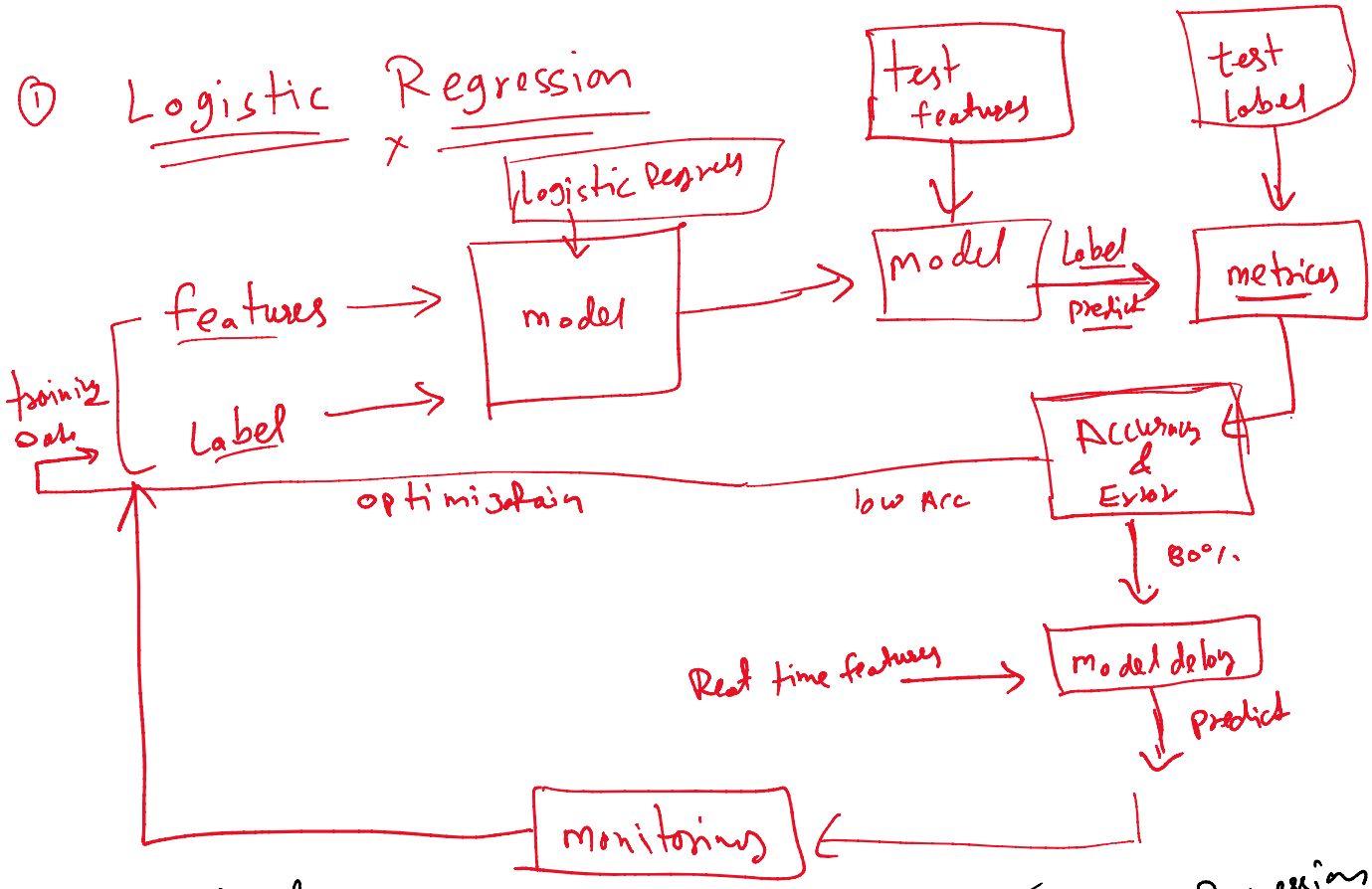
Classification

Friday, June 26, 2020 9:09 AM

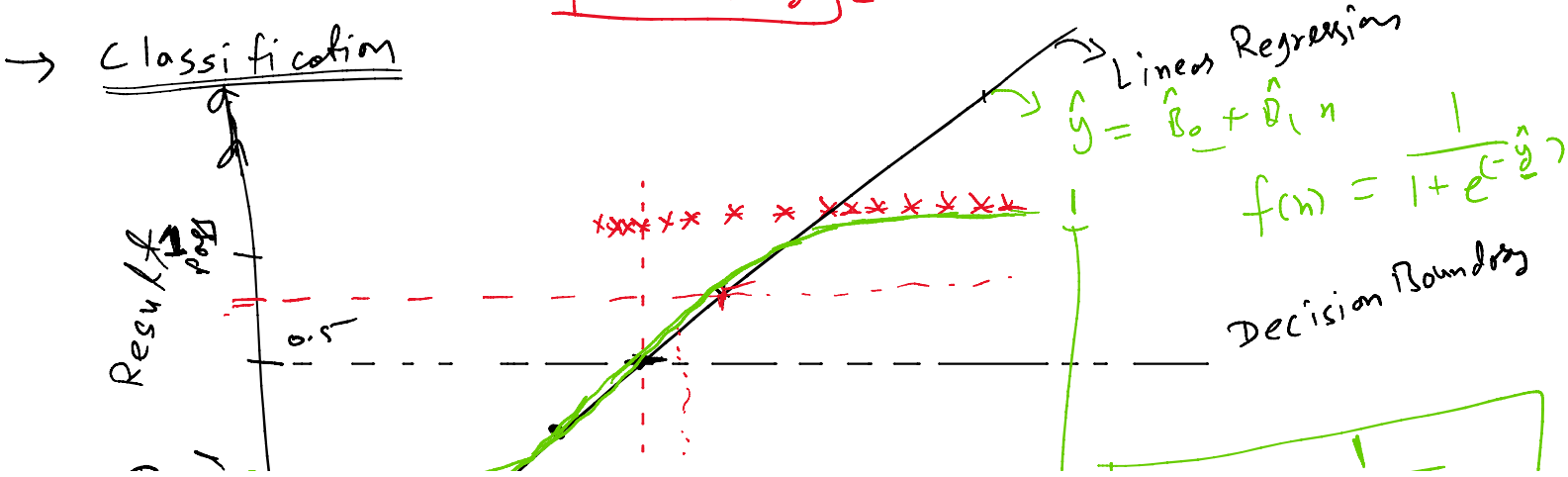


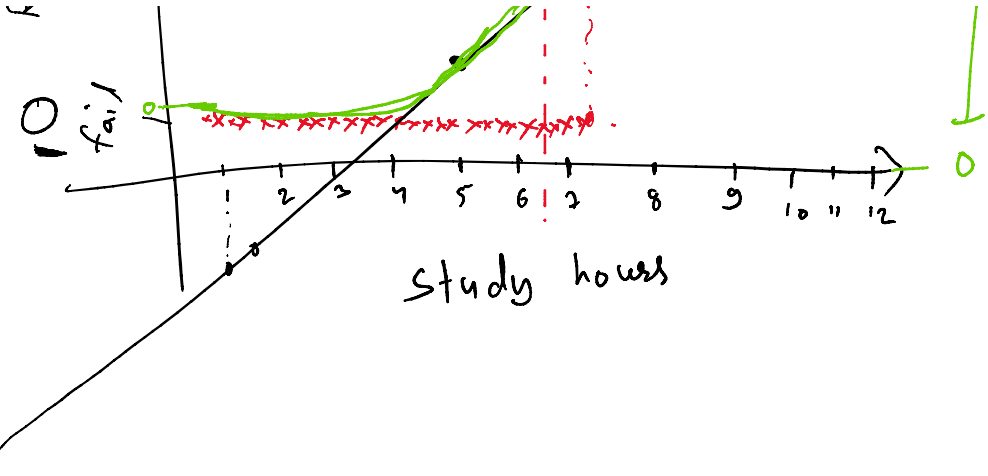
$$h(n) = \beta_0 + \beta_1 x_1$$

① Logistic Regression



→ Classification





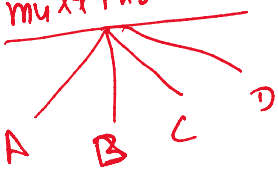
$$\text{logit} = \frac{1}{1 + e^{-B_0 - B_1 X_1}}$$

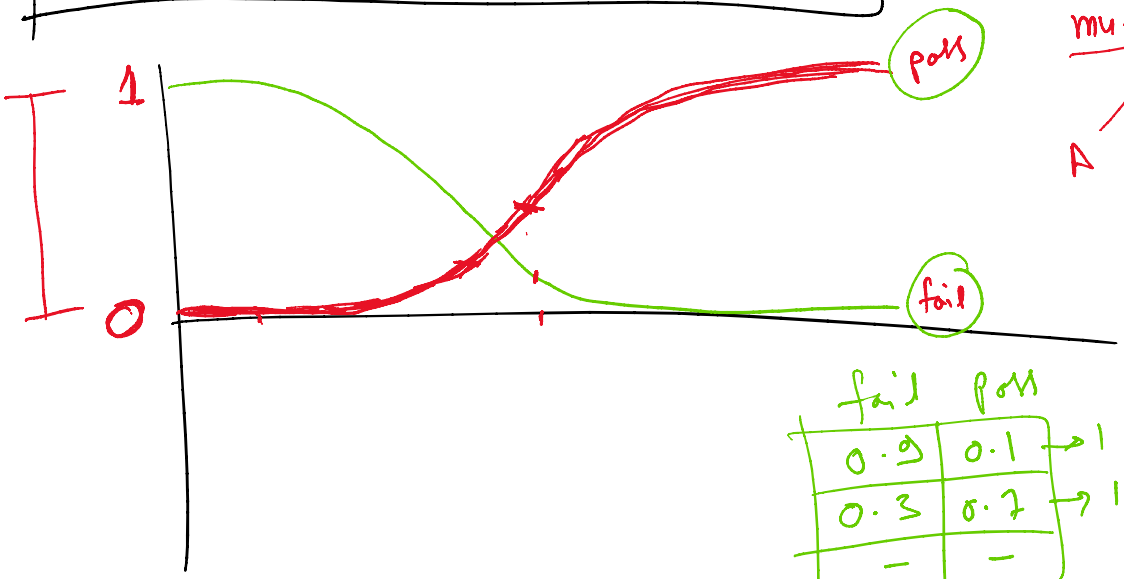
→ logit or Sigmoid function →

$$f(z) = \frac{1}{1 + e^{-z}}$$

Binary

multinomial





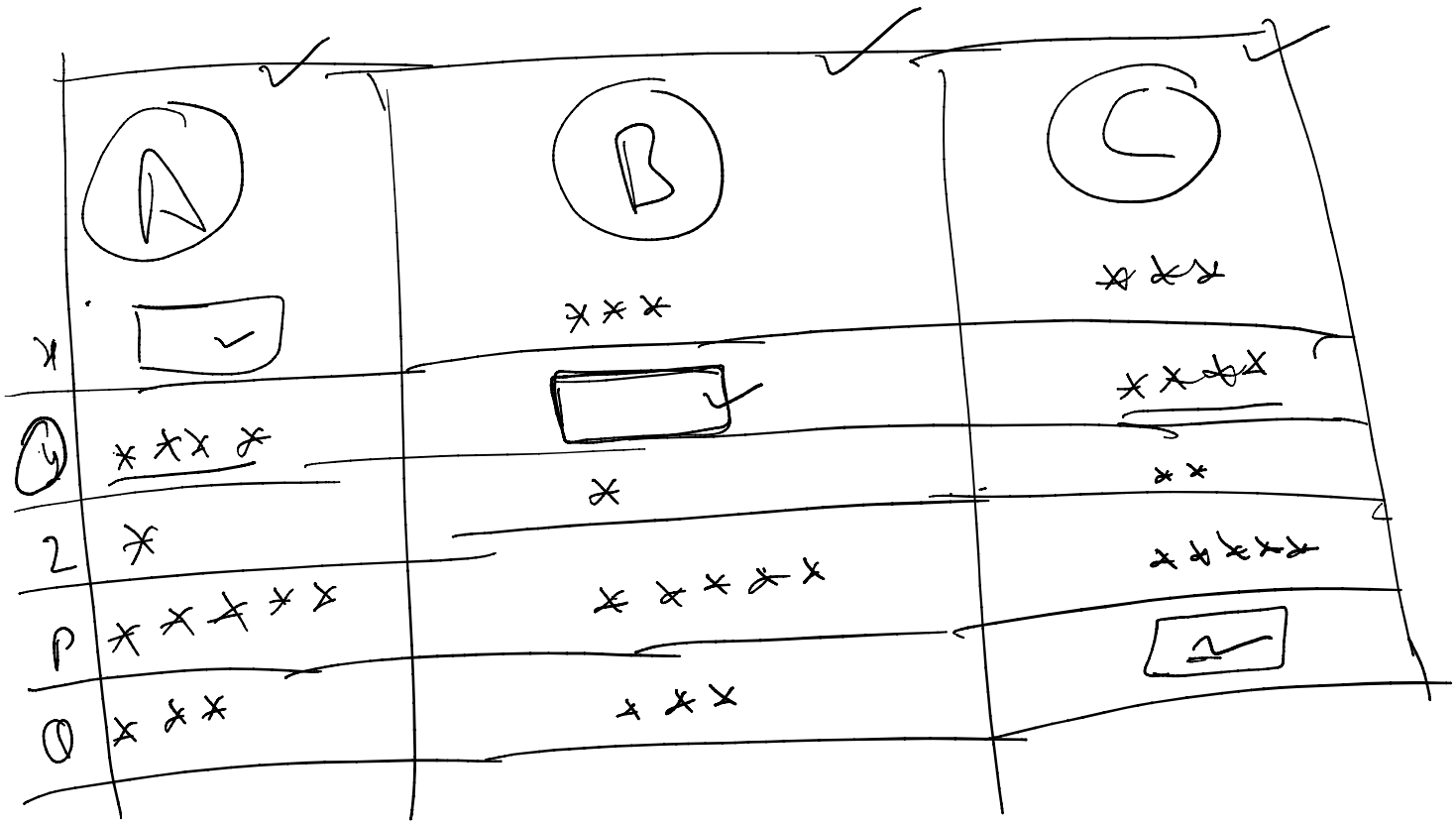
fail	pass	
0.9	0.1	→ 1
0.3	0.7	→ 1
—	—	

→ Recommendation Engine

(i) Item Based

(ii) User Based

(ii) matrix factorization



→ Item Based

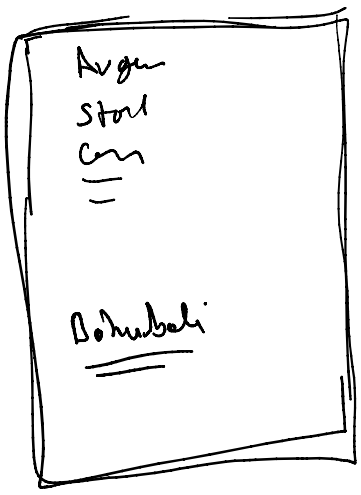
Bahubali 2.

Star wars 5*

Iron Man 5*

Avengers 5*

41



Avengers 5 8

Commando 4 1

K - Neorest Neighbours

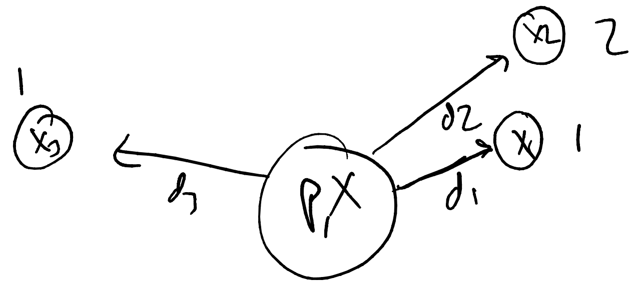
↓ odd

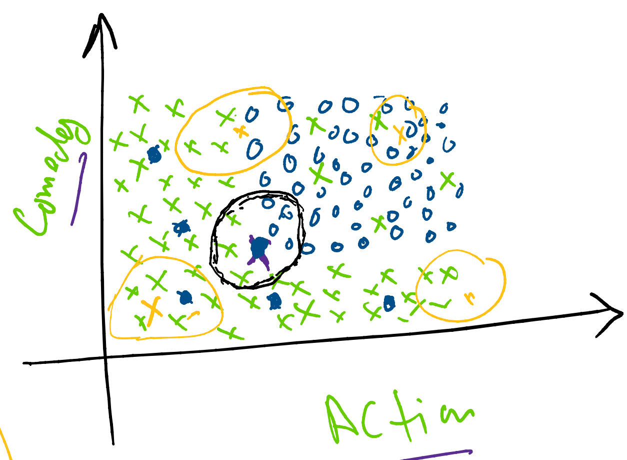
hyper parameter

Sachin — Like / Dislike

K = 7

X → new





4 → Dislike
3 → like
→ Dislike

K = 2. → Cost → Elbow method

① Fraud Detection

② Breast Cancer classification

logic - Regression → video