Feature Engg - 1

(Q) what is feature engineering?

Aerofit data:-

Target

Features

Education	Gender	Income	fitness	usage	Product
P1					
P2					

Classification

eg2:- Fitness Example :-

1 → fit
0 → Unfit

Weight	Height	Fit
X	5ft X	1
X	X	0
X	X	0
X	X	1
X	X	1

55 kg
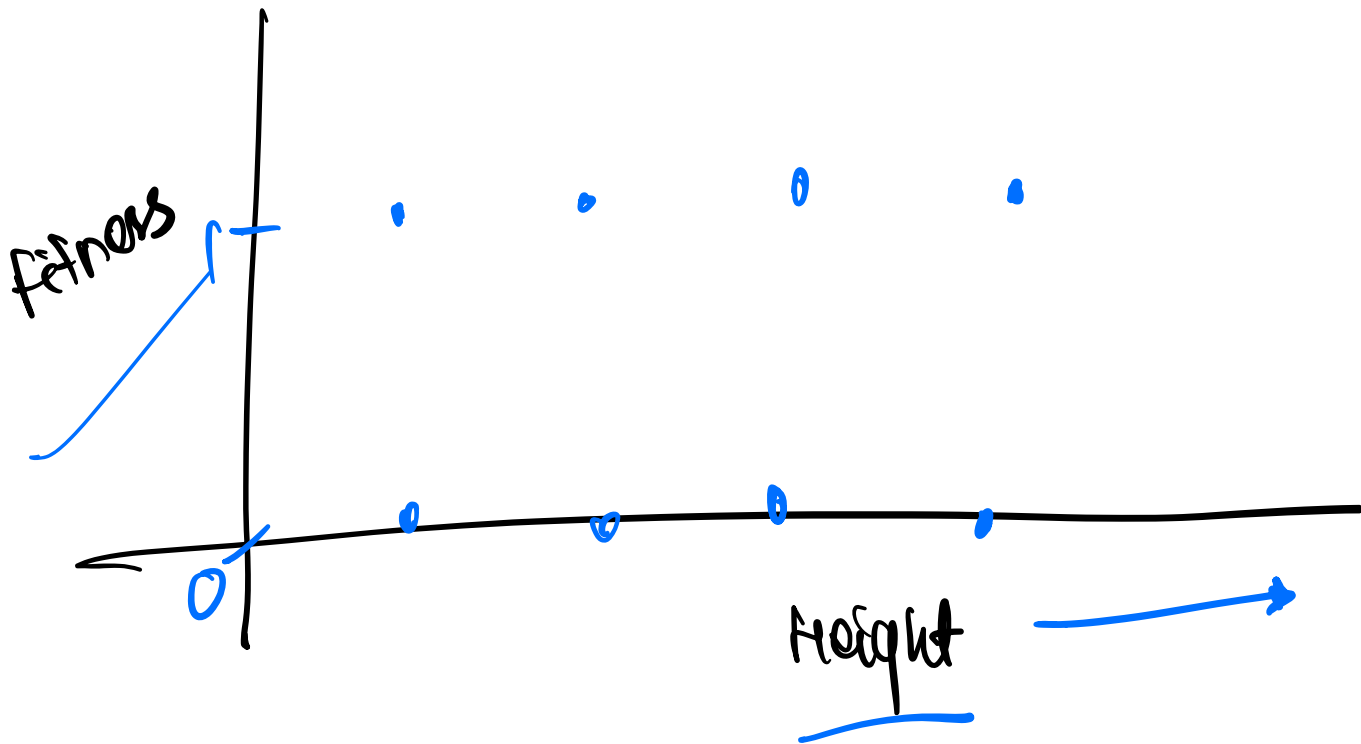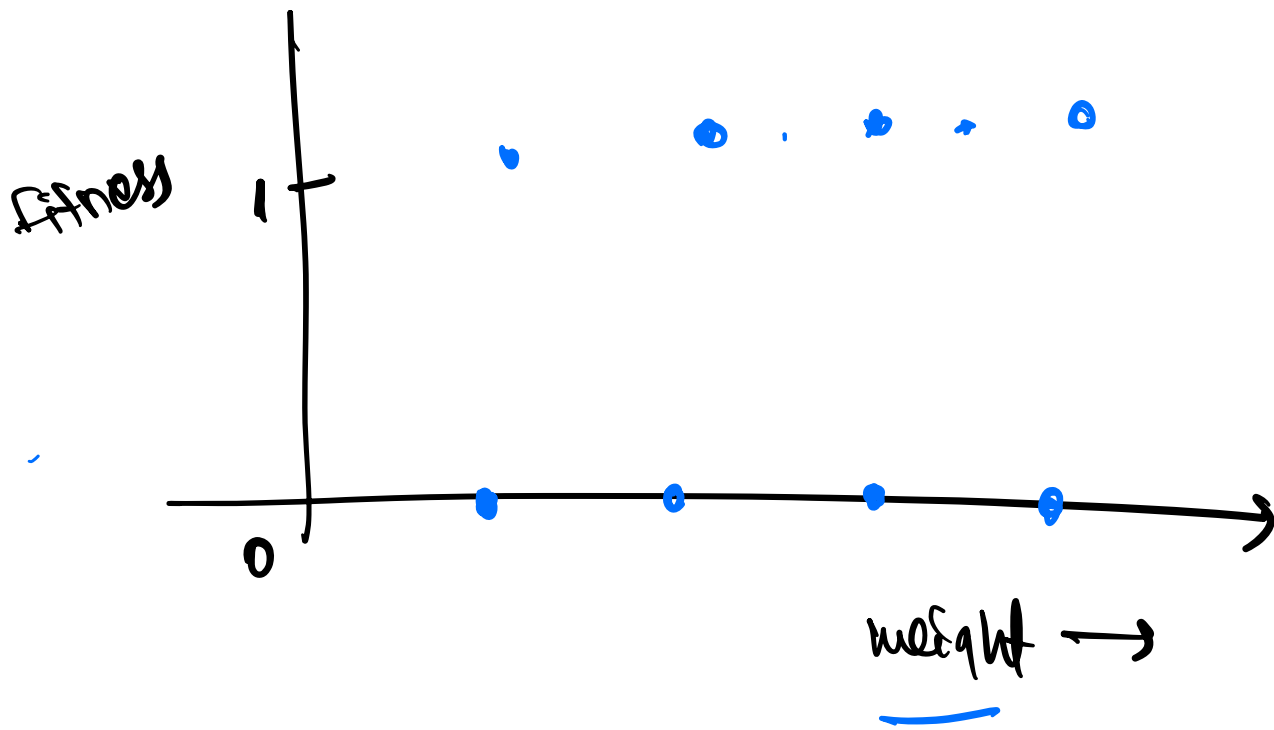
(Q)1) Is fitness dependent on the weight of a person?

→ Yes

(Q.2) Is fitness dependent on the height of a person?

→ Yes (majority) / No

fitness

1

0

weight →

fitness

1

0

Height →

BMI $\rightarrow$ (Body Mass Index)

$$BMI = \frac{Weight}{(Height)^2}$$

Feature Engg

Weight	Height	BMI	Fitness

feature Engg :-

		Total-Income		Loan-Amt
①	P1 →	(20L)		50L ✓
	(A+GA)	Loan-Term → 1yr		
②	P2 (A+CP) →	50L		5 Cr (500 L)

Loan-form
↳ 20 yrs

Salary * Loan-Term > loan-amt

Salary * Loan-Term > loan-amt