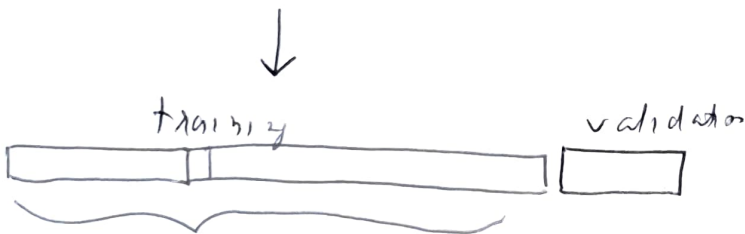
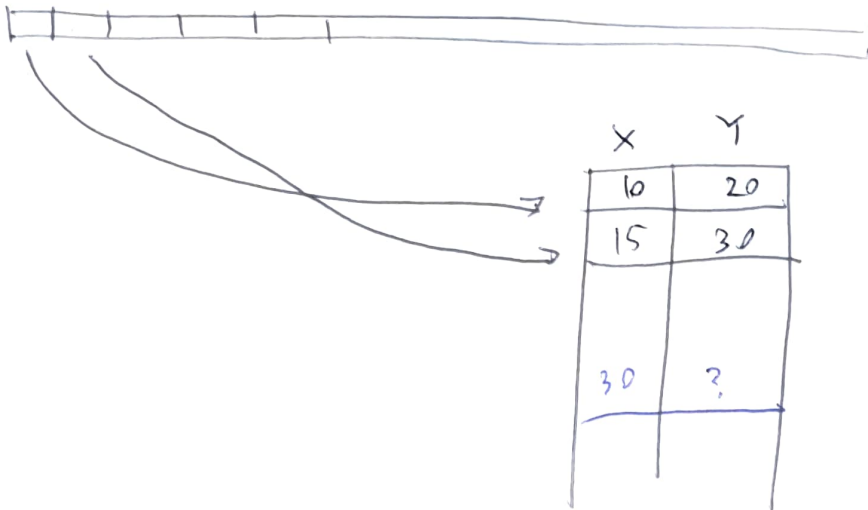


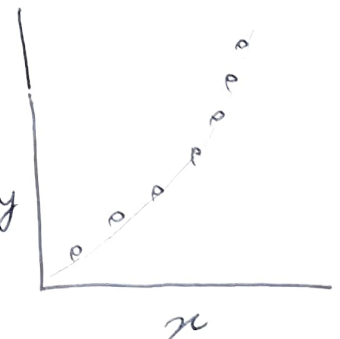
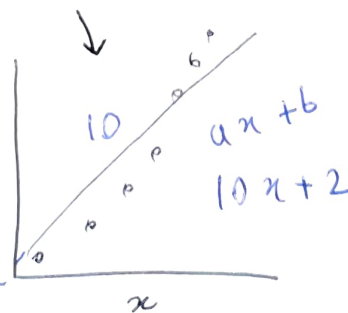
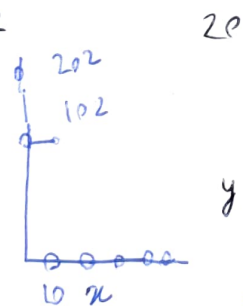
# CROSS VALIDATION

① ②



$$y = ax + b$$

$$= 10x + 2$$

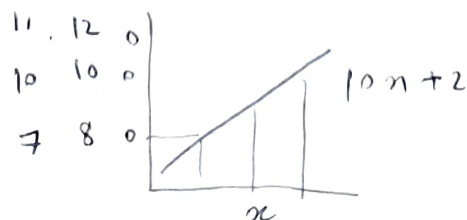


$$\begin{aligned} 1202 - 2001 &= 2 \\ (102 - 90) &= 12 \\ 14 \end{aligned}$$

$$\begin{aligned} (202 - 200)^2 &= 4 \\ (102 - 90)^2 &= 144 \\ 148 \end{aligned}$$

$$\begin{aligned} 10 \times 10 + 2 &= 102 \\ 10 \times 20 + 2 &= 202 \end{aligned}$$

validation set

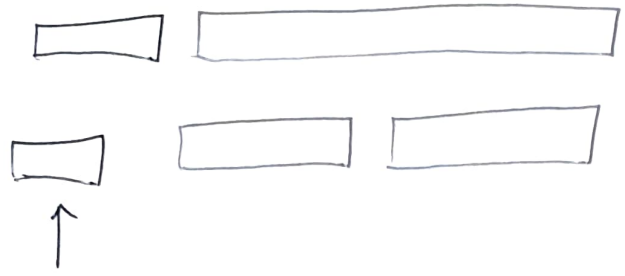


$$(11 - 12)^2 + (10 - 10)^2 + (7 - 8)^2 = \underline{\underline{2}}$$

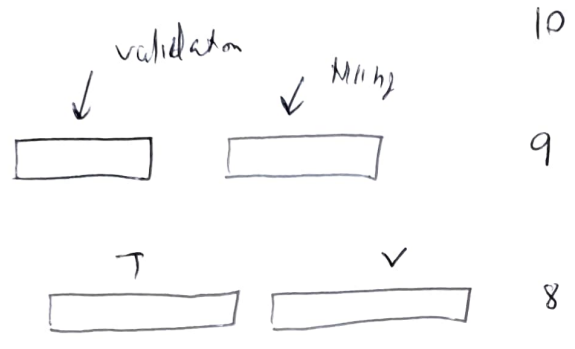
(2)

$$y = ax^2 + bx + c$$

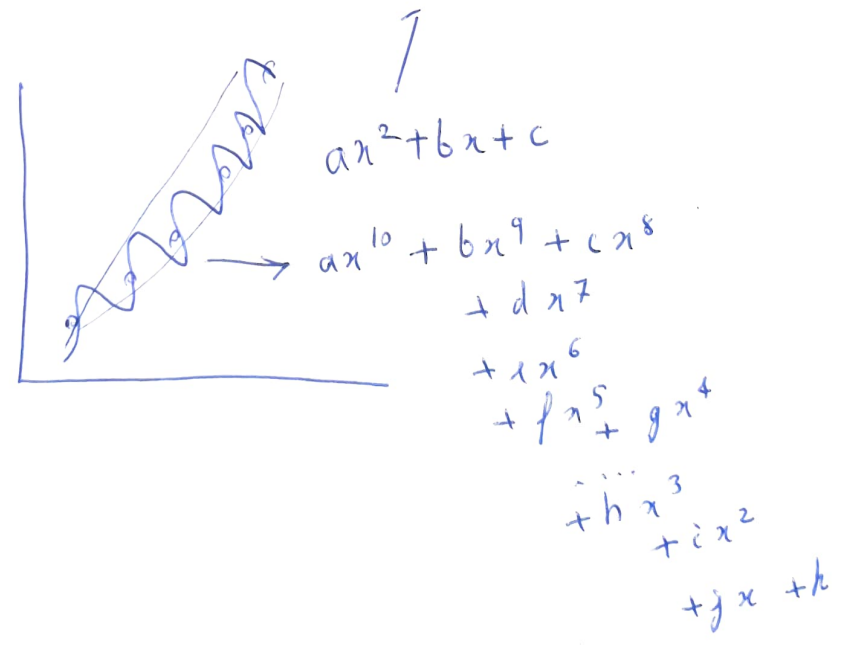
training set



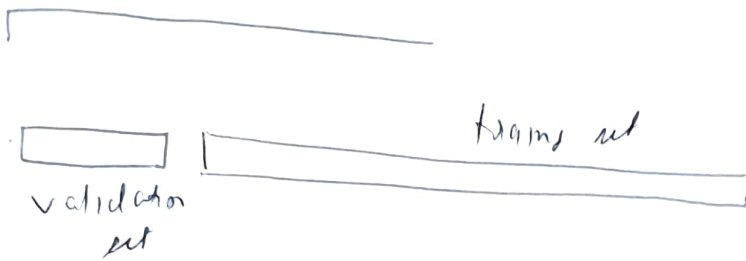
$a, b, c$



9

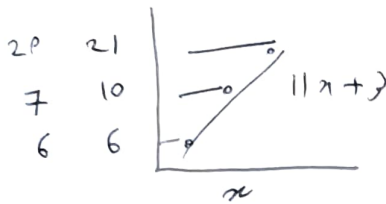


2   validation



$$y = ax + b$$

$$= 11x + 3$$



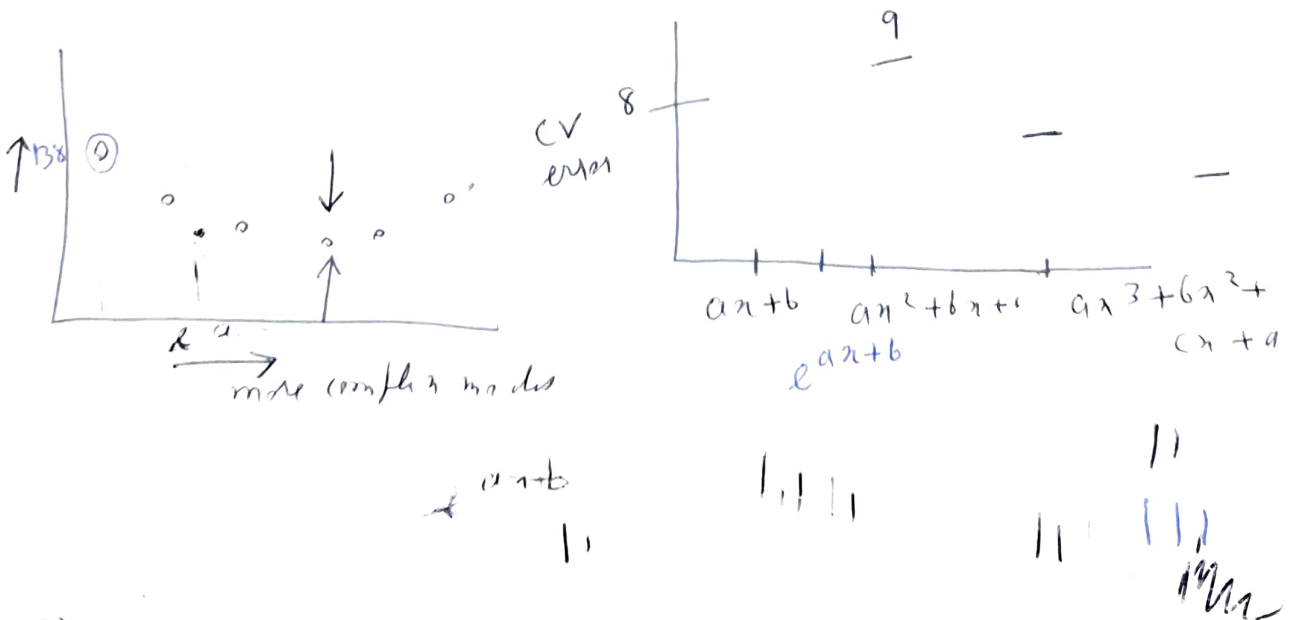
$$(20 - 21)^2 + (7 - 10)^2 + (6 - 6)^2 = 10$$

- 1
- 1) cv
- 2) metrics
- 3) black box
- 4) ethics



→ (1)

→ (2)



(3)