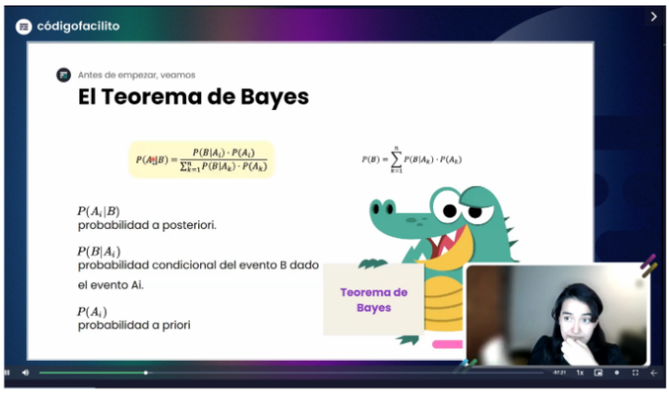


proporcion de ventas

$P(X) = 0.20$

$P(Y) = 0.50$

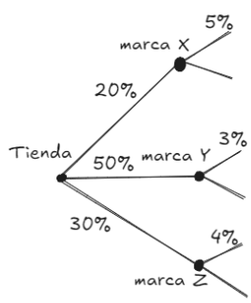
$P(Z) = 0.30$

probabilidad de defectos de marca

$P(D|X) = 0.05$

$P(D|Y) = 0.03$

$P(D|Z) = 0.09$



$$P(Z|D) = \frac{P(D|Z) \cdot P(Z)}{P(D|X) \cdot P(X) + P(D|Y) \cdot P(Y) + P(D|Z) \cdot P(Z)}$$

$$P(Z|D) = \frac{0.04 \times 0.30}{(0.05 \times 0.20) + (0.03 \times 0.50) + (0.04 \times 0.30)} = \frac{0.012}{0.01 + 0.015 + 0.012} = 0.324 \simeq 32\%$$