

$$\text{dataset} = [(-3, -1.2), (-1, 0.7), (6, 0.14), (1, 0.67)]$$

$$X = \begin{pmatrix} -3 \\ -1 \\ 6 \\ 1 \end{pmatrix}$$

$$Y = \begin{pmatrix} -1.2 \\ 0.7 \\ 0.14 \\ 0.67 \end{pmatrix}$$

$$m = \frac{\overline{xy} - \bar{x}\bar{y}}{\overline{x^2} - (\bar{x})^2}$$

$$\overline{xy} = \frac{3.6 - 0.7 + 0.84 + 0.67}{4} =$$

$$= \frac{4.41}{4} = 1.1025$$

$$\bar{x} = 3/4$$

$$\overline{x^2} = \frac{9 + 1 + 36 + 1}{4}$$

$$\bar{y} = 0.31/4 = 0.0775$$

$$\bar{x}\bar{y} = 0.058125$$

$$m = \frac{1.1025 - 0.058125}{1.75 - 0.5625} = \frac{1.044375}{1.1875}$$

$$b = \bar{y} - m\bar{x}$$

$$m = 0.09335$$

$$b = 0.0775 - 0.09335 \times 0.75$$

$$b = 0.07987$$