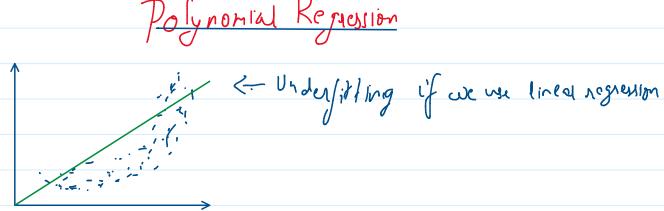
Polynomial Kepression



$$\begin{bmatrix} y_1 \\ y_2 \\ \vdots \\ y_m \end{bmatrix} = \begin{bmatrix} x_1 & x_2 \\ x_2 & x_2 \\ \vdots \\ x_n & x_n \end{bmatrix} \begin{bmatrix} \beta_1 \\ \beta_2 \\ \beta_2 \end{bmatrix}$$

$$\mathcal{G}_{i} = |^{3} + |^{3} n_{i} + |^{3} n_{i}$$

$$\mathcal{E}_{i} = \sum_{j=1}^{3} (y_{i} - \hat{y}_{i})^{2}$$

$$= \sum_{j=1}^{3} (y_$$

$$\frac{\partial \beta_{0}}{\partial \beta_{0}} = \frac{\partial \beta_{0}}{\partial \beta_{0}} + \frac{\partial \beta_{0}}{\partial \beta_{0}}$$

$$|iii) = 2 \left(\frac{2}{3}y_{1} - \frac{1}{5} - \frac{1}{5}y_{1} - \frac{1}{5}y_{1} - \frac{1}{5}y_{1} \right) \left(-\frac{2}{3}y_{1}^{2} \right) = 0$$

$$= \left(\frac{1}{5} \cdot \frac{1}{$$

$$\begin{bmatrix} \gamma & z \gamma_{i}^{2} & z \gamma_{i}^{2} \\ \overline{z}_{i} & \overline{z}_{i}^{2} & \overline{z}_{i}^{2} \\ \overline{z}_{i} & \overline{z}_{i}^{2} & \overline{z}_{i}^{3} \end{bmatrix} = \begin{bmatrix} z^{2} \gamma_{i} \\ \overline{z}_{i} \\ \overline{z}_{i}^{3} & \overline{z}_{i}^{2} \end{bmatrix}$$

$$= \begin{bmatrix} z^{2} \gamma_{i} \\ \overline{z}_{i}^{2} \\ \overline{z}_{i}^{2} \\ \overline{z}_{i}^{2} \end{bmatrix} = \begin{bmatrix} z^{2} \gamma_{i} \\ \overline{z}_{i}^{2} \\ \overline{z}_{i}^{2} \\ \overline{z}_{i}^{2} \end{bmatrix}$$

We Gaussian Llimination to find Po, P1, P2