How estimak b:

Elements in vector 6 are unknown

= 0 estimate from data using Loss Squares  $L = e = [e_1 \ e_2 \ e_3 \cdot e_N] \cdot [e_1] = e_1^2 + e_2^2 \cdot e_1 \cdot e_2^2$   $L = \sum_{i=1}^{N} e_i^2 = e_1^2 + e_2^2 + \sum_{i=1}^{N} e_i^2 = e_1^2 + e_2^2 \cdot e_N^2$ 

$$L = \overline{e}e = (y - Xb)^{T} \cdot (y - Xb)$$

$$= (y^{T} - (Xb)^{T}) \cdot (y - Xb)$$

$$= (y^{T} - b^{T}X^{T}) \cdot (y - x^{T})$$

$$= (y^{T} -$$

Least Squares: Final vector b. such that