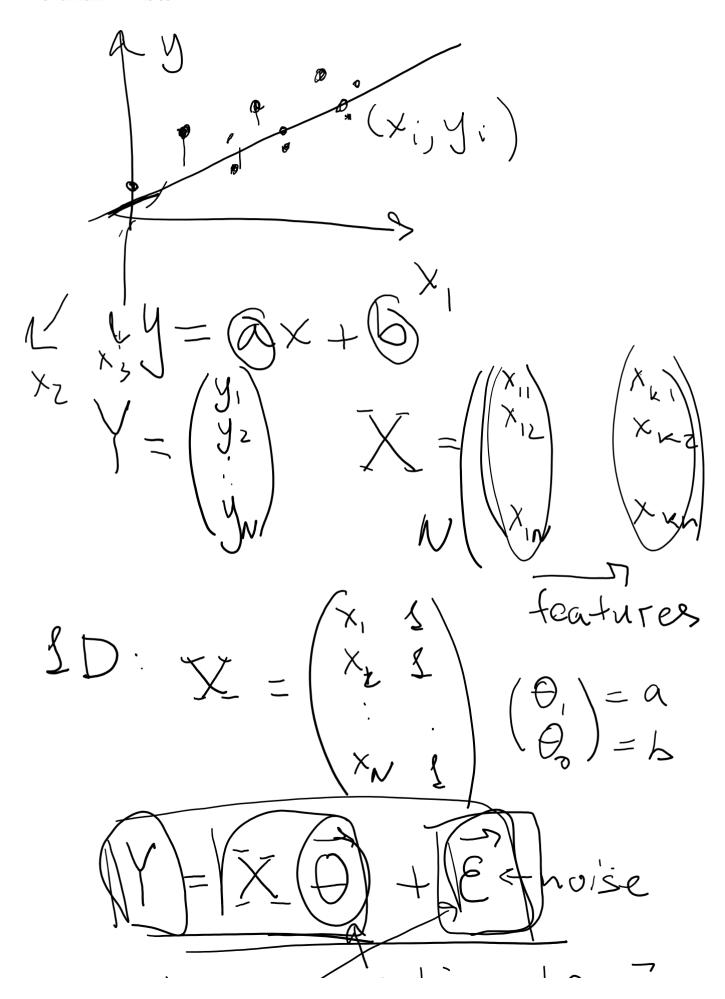
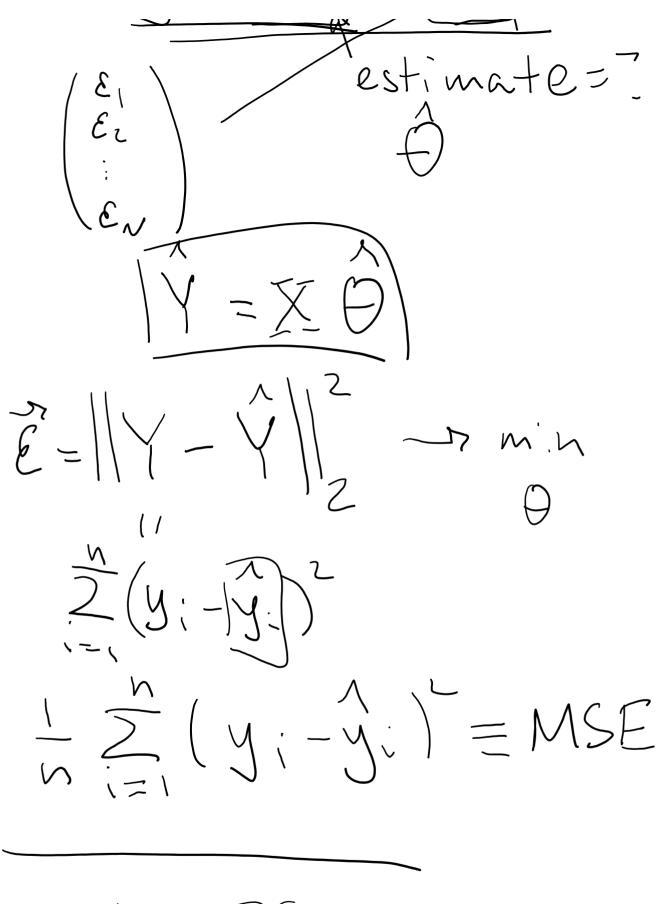
## Week 8 Seminar - Regression

6 мая 2022 г. 19:06





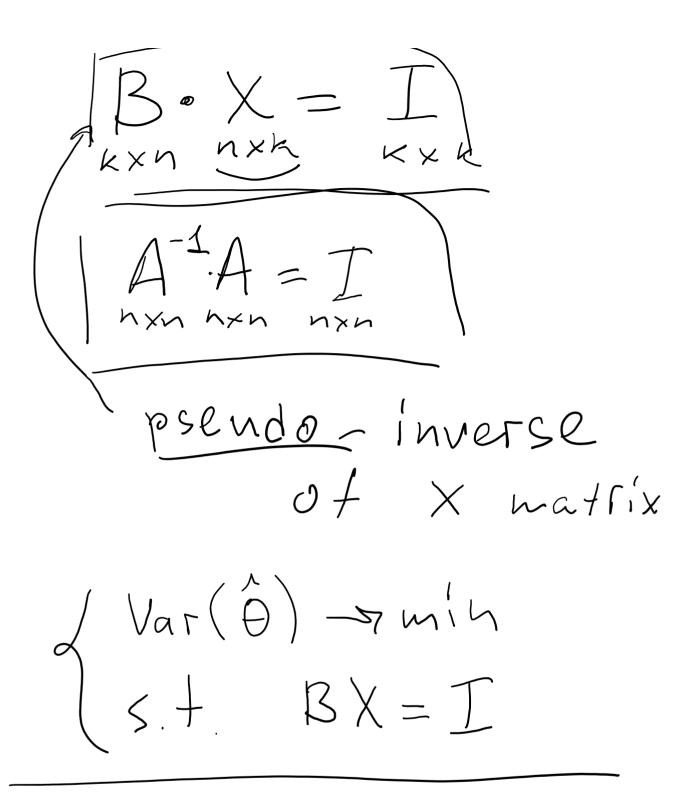


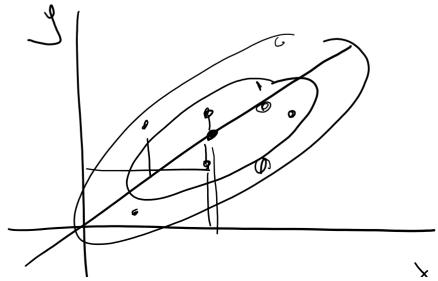
$$E(\hat{\theta}) = 0$$

$$E(\hat{\theta}) = 0$$

$$V = E(B \cdot (X \cdot \theta + E))$$

$$E(B \cdot (X \cdot \theta + E)$$





E(y|x=x)=
$$\Gamma(x)$$

regression

function

 $M_x$ 
 $M_x$ 

$$\sum_{i,j} = \mathbb{E}(x_i - \mathbb{E}(x_i))(x_j - \mathbb{E}(x_j))$$

$$\sum_{i,j} = \mathbb{E}(x_i - \mathbb{E}(x_i))(x_j - \mathbb{E}(x_i))$$

$$\sum_{i$$

$$Var(\hat{\theta}_{i}) = b^{T} \mathbb{E}(\mathcal{E}\mathcal{E}^{T})b_{i}$$

$$= i(\cdot)(\cdot)$$

$$\mathcal{L} = b^{T}b_{i} + \Lambda_{i}(\cdot)$$

$$\mathcal{L} = b^{T}b_{i}$$

$$\mathcal{L} = (x^{T}x) = (2x^{2})$$

$$2 = (2x^{2})$$

$$4 = (2x^{2})$$

$$6 = (3x^{2})$$

$$6 = (3x^{2})$$

$$6 = (3x^{2})$$

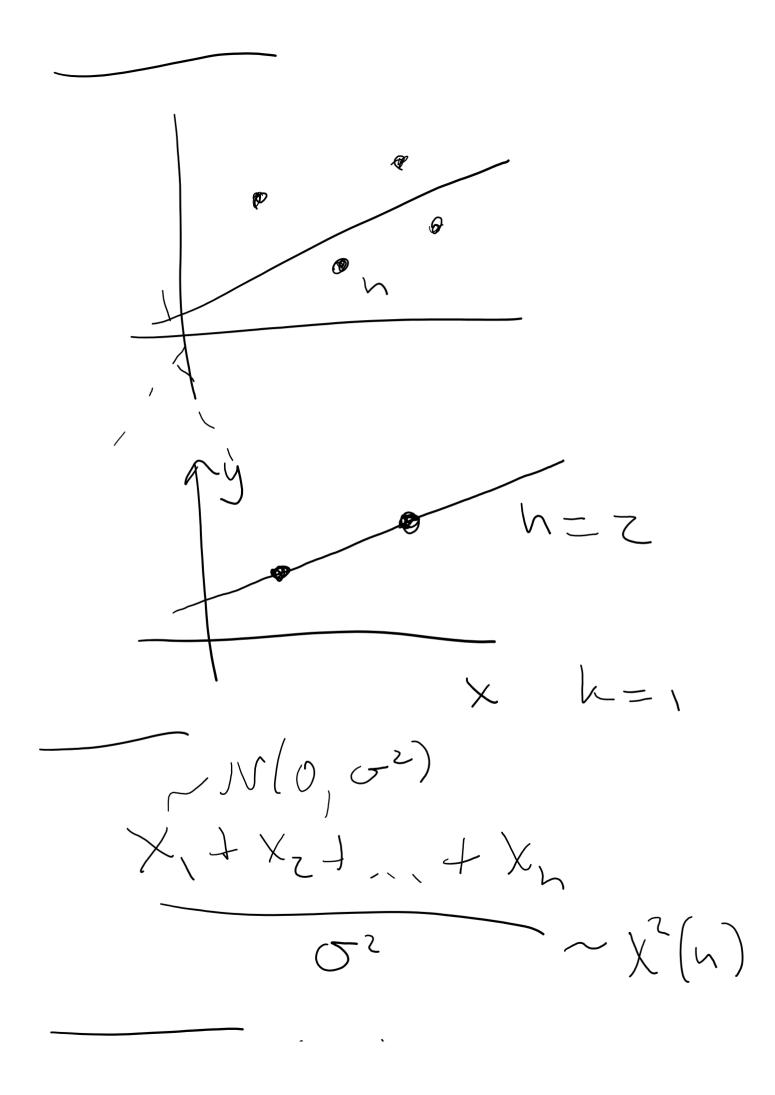
$$6 = (3x^{2})$$

$$7 = (2x^{2})$$

$$7 = (2$$

Seminars CTp.8

Kxn hxh KXK KXV typically,



+ix: 13 = (x x) x prodict: Ytruita Yest Thest + est (train) R2-5000  $R^2 = 1 - \frac{D(y|x)}{}$ 

 $D(\lambda)$ 

 $\left(\begin{array}{c} x \\ x \\ \end{array}\right)$ 

(ond number = | \lambda\_max| \lambda\_min|