## F4S-STK4155, AUGUST 25

- data 
$$y = \begin{bmatrix} y_0 \\ y_1 \\ \vdots \\ y_{m-1} \end{bmatrix} \in \mathbb{R}^m$$

$$x = \begin{bmatrix} x_0 \\ x_1 \\ \vdots \\ x_{m-1} \end{bmatrix} \in \mathbb{R}^m$$

$$x = \begin{bmatrix} x_0 \\ x_1 \\ \vdots \\ x_{m-1} \end{bmatrix}$$

- model

Data 
$$y(x) = f(x) + \varepsilon$$
  
 $\tilde{y}(x) = P_{\alpha}(x) - f(x)$   
 $\tilde{y}(x) = \frac{d-1}{\varepsilon} P_{\lambda}(x)$   
 $\tilde{y}(x) = \tilde{y}(x) = \tilde{y}(x)$   
 $\tilde{y}(x) = \tilde{y}(x)$ 

9, = Bo + x, B, + x, B2 + -. - x, d-1 Bd-1 Bo + Xn-, B, + ~. B = | 30 | CR d |31 | CR d |30-1 | M=0 |  $\times$  |  $\times$ feature ma trix

Fanknown parameters to le determined.

Cost/coss... June trom

B = ang mine C(g(Bix))
B = B = R

optimal value

 $\frac{OC(917,X)}{OP} = 0$   $= \frac{3-XP}{191}$ 

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$$\begin{aligned}
& = \frac{|y - X\beta|}{|y|} \\
& = \frac{|y|}{|y|} \\
&$$