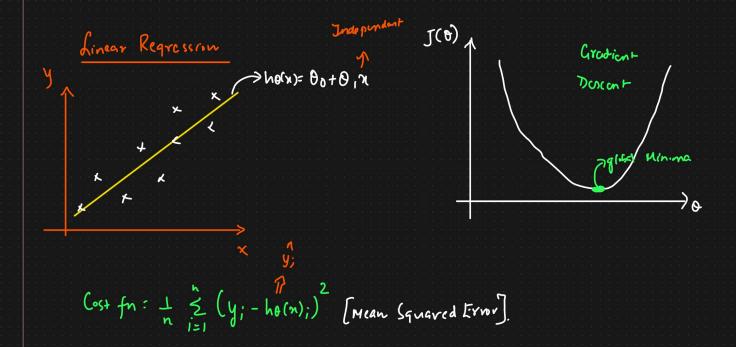
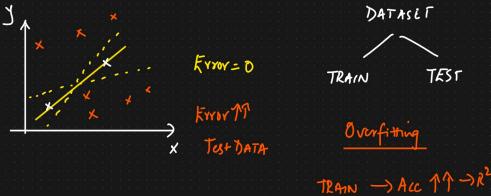
Ridge / Lasso And Elastienet Regression







TRAIN -> ALC | 1 -> R

$$h_{\theta}(n) = \theta_{0} + \theta_{1} \times x,$$

$$h_{\theta}(n) = \theta_{0} + \theta_{1} \times x$$

$$= 0 + 1 \left[(\theta_1)^2 \right] \Leftarrow \text{ pundize the cont}$$
function

$$h_{\theta}(x) = \theta_{0} + \theta_{1}x_{1} + \theta_{2}x_{2} + \theta_{3}x_{3} \qquad feature versure$$

$$= 0.52 + 0.65x_{1} + 1.5x_{2} + 0.2x_{3} \qquad y \rightarrow 1.5x_{2}$$

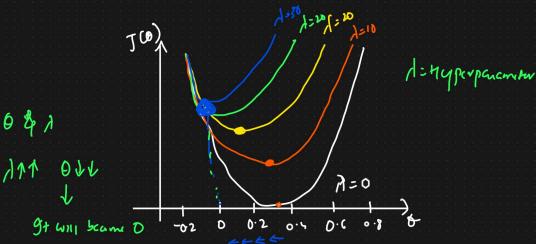
$$feque$$

$$feque$$

$$Selection \qquad \chi_{3} \rightarrow 4.0n$$

$$y \rightarrow 0.2n_{3}$$

Cost fn:
$$1 \le (y; -\hat{y};)^2 + 1 \le |s| |s| |s|$$



Cost fn=
$$+\frac{h}{2}(y_i-\hat{y}_i)^2+\lambda_i\frac{h}{2}(slope)^2+\lambda_i\frac{h}{2}(slope)^2$$

W

W

MSE + Reducing overfitting + Fequere Selection

1, 12 { Hyperparameter Toming}.