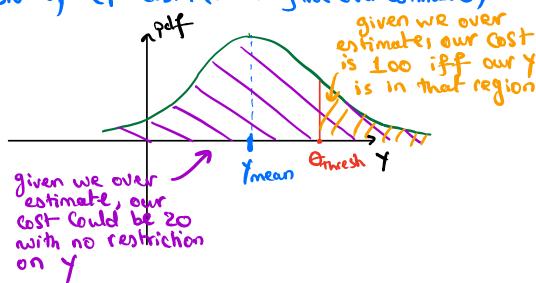
. Asymmetric cost prediction adjustment:

$$y^{*} = \tilde{W}^{2} \times + \sigma \tilde{P}^{-1} \left(\frac{C_{1}}{C_{1} + C_{2}} \right)$$

$$C_{1} = \text{cost of under estimation} \left(C_{1} = 20 \text{ or } 100 \right)$$

C2 = Cost of over estimation ((2=1)

Analysis of (1 Cost: (Assuming me over estimate)



$$\Rightarrow C_1 = \frac{P(\gamma) \Theta_{\text{timesh}} \cdot 100 + 1 \cdot 20}{P(\gamma) \Theta_{\text{timesh}} + 1}$$

where
$$P(y > \Theta_{\text{thresh}}) = 1 - \phi \left(\frac{0.5 - y_{\text{mean}}}{5y} \right)$$

Therefore, for each point in our test set, we calculate a different C, and adjust the prediction accordingly.