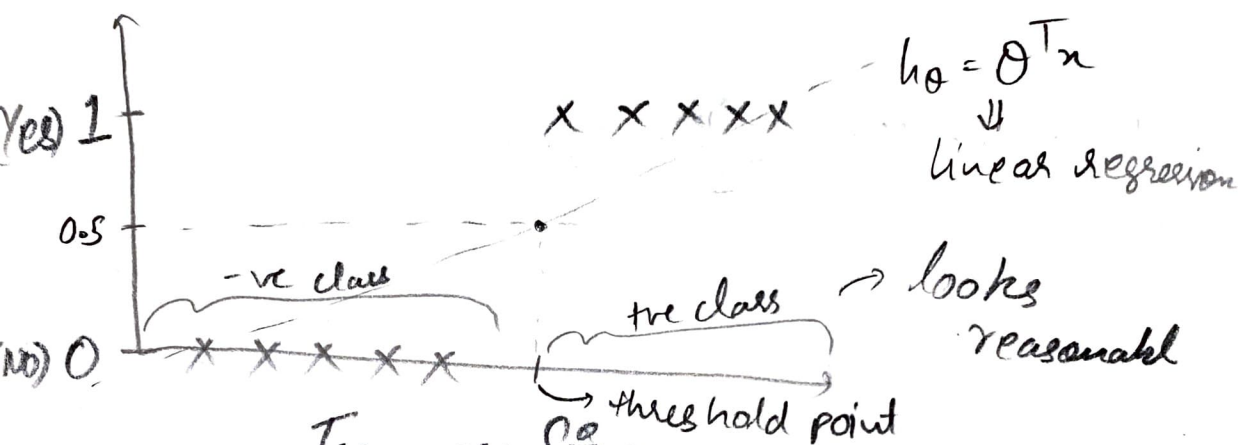


Classification \Rightarrow
 Email \Rightarrow Spam/Not Spam
 Online Transaction \Rightarrow Fraudulent (Y/N)
 Tumor \Rightarrow Malignant/Benign?
 Two class classification

$y \in \{0, 1\}$ $\begin{cases} 0 \Rightarrow \text{"Negative Class"} \text{ (Eg, benign)} \\ 1 \Rightarrow \text{"Positive Class"} \text{ (Eg, malignant)} \end{cases}$

$y \in \{0, 1, 2, 3, 4, 5\} \Rightarrow$ Multi-class classification



Tumor Size
 Threshold classifier output $h_0(x)$ at 0.5:

If $h_0(x) \geq 0.5$, predict "y=1"

If $h_0(x) < 0.5$, predict "y=0"

