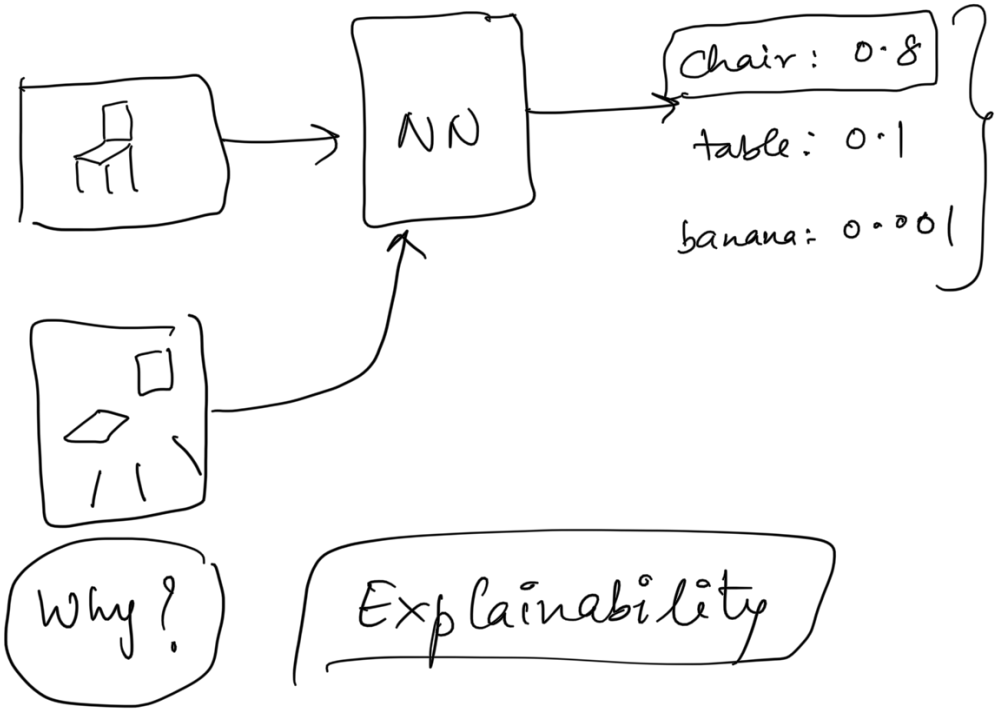
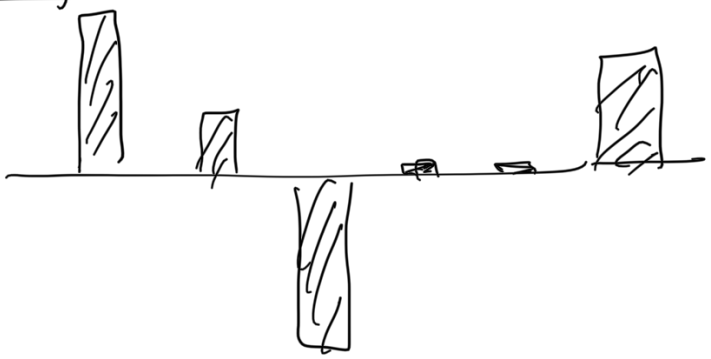
Decision Trees

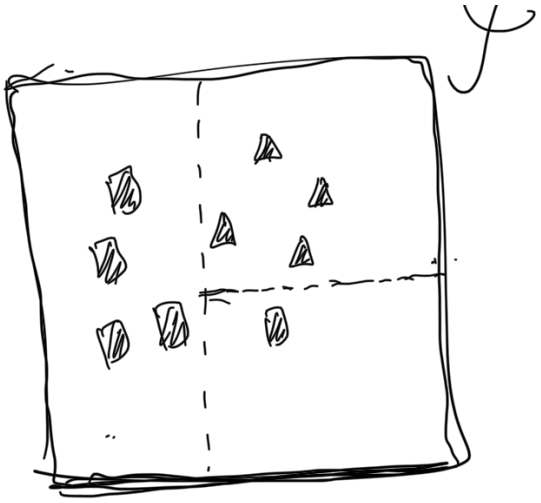


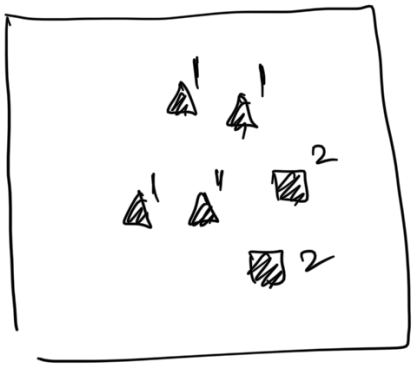
Logistic Regression ✓

W:



X: _____



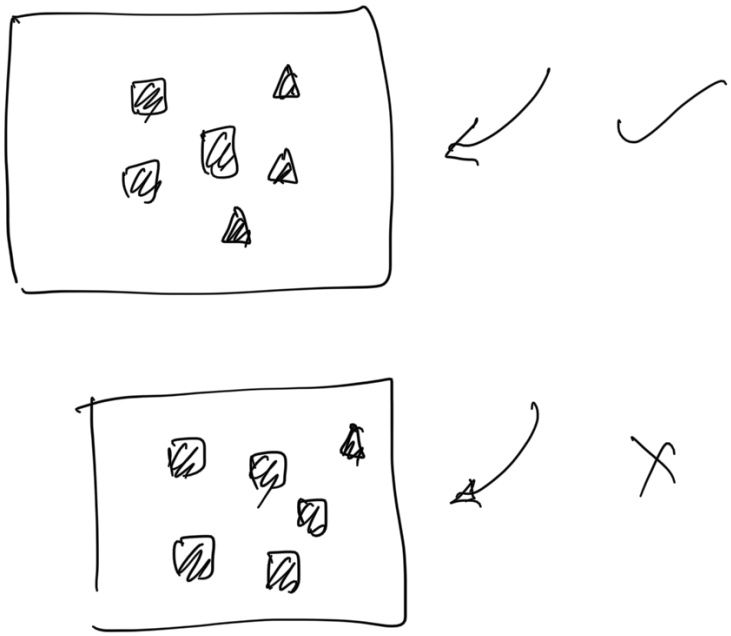


$c = 1, 2$

$$L_{cross}(R) = -\sum_{c} \hat{p}_c \log_2 \hat{p}_c$$

$$\hat{p}_c =$$

$$\hat{p}_1 = \frac{4}{6} = \frac{2}{3}$$

$$\hat{p}_2 = \frac{2}{3}$$

$$L_{cross}(R) = -\left[\frac{2}{3} \log_2\left(\frac{2}{3}\right) + \frac{1}{3} \log_2\left(\frac{1}{3}\right) \right]$$