

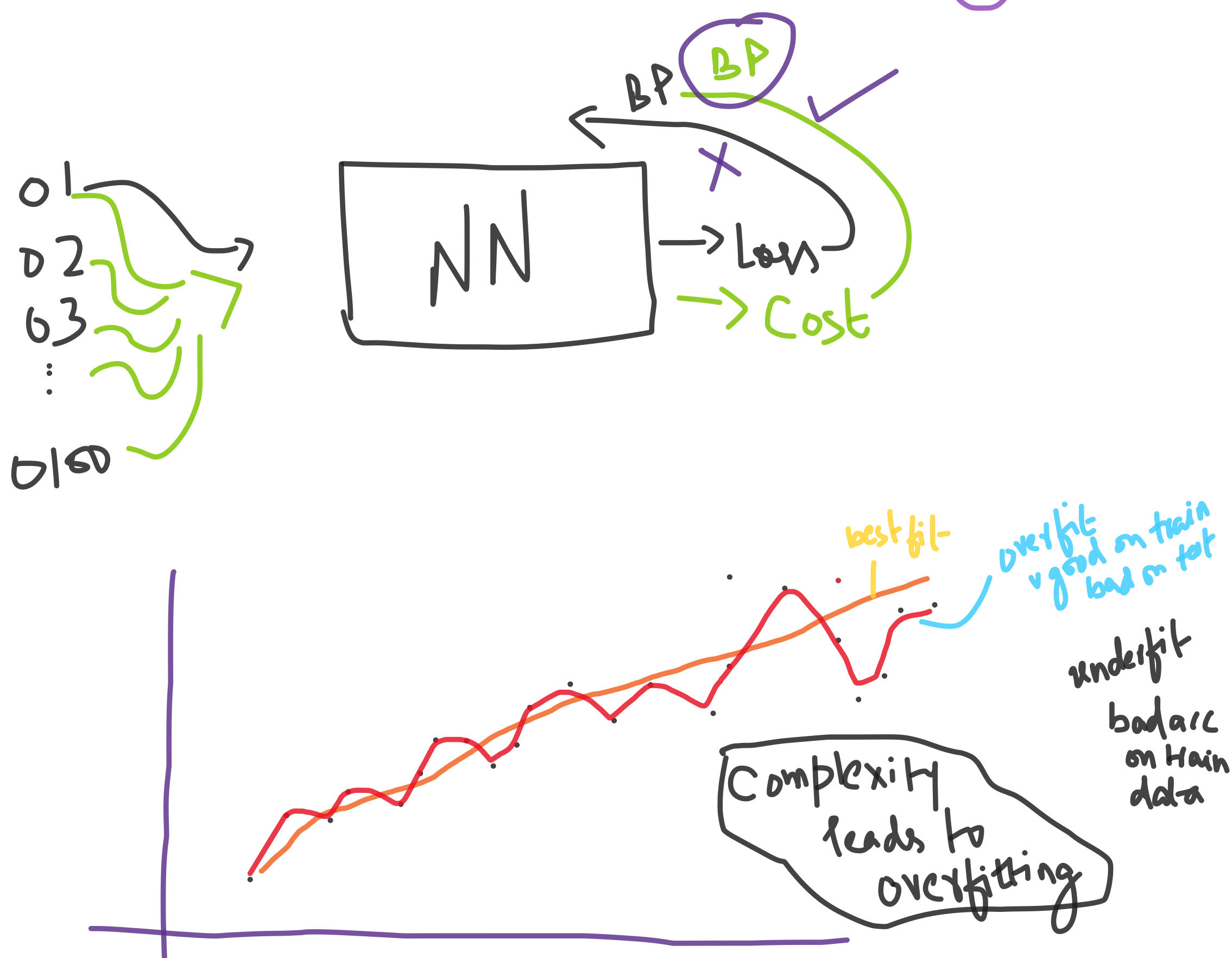
log Loss - Logistic Regression → prob

$$-y \log p - (1-y) \log (1-p)$$

$y \rightarrow \text{actual} \rightarrow \{0, 1\}$   
 $p \rightarrow \text{pred}$

0 } fail  
 1 } pass

$y=0 \Rightarrow -\log(1-p)$   
 $y=1 \Rightarrow -\log p$



L1/L2 regularization  
 penalizing weights → controlling complexity \*

