$$\begin{array}{l} input soutput s supervised \ learning \\ XiXx_i^Tx_iY\hat{Y}\hat{Y}\hat{G} \\ X^T = (X_1,X_2,\ldots,X_p)Y \end{array}$$

$$\hat{eta}_0$$
  $\beta$ 

$$RSS(\beta) = (y - X\beta)^T (y - X\beta)XN \times pyN\beta X^T X$$
 
$$Pr(X, Y)$$