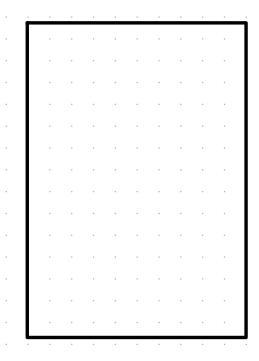
$$\frac{\partial J(b)}{\partial \Theta_{j}} = \sum_{i=1}^{N} (\hat{y_{i}} - \hat{y_{i}})^{2} i$$

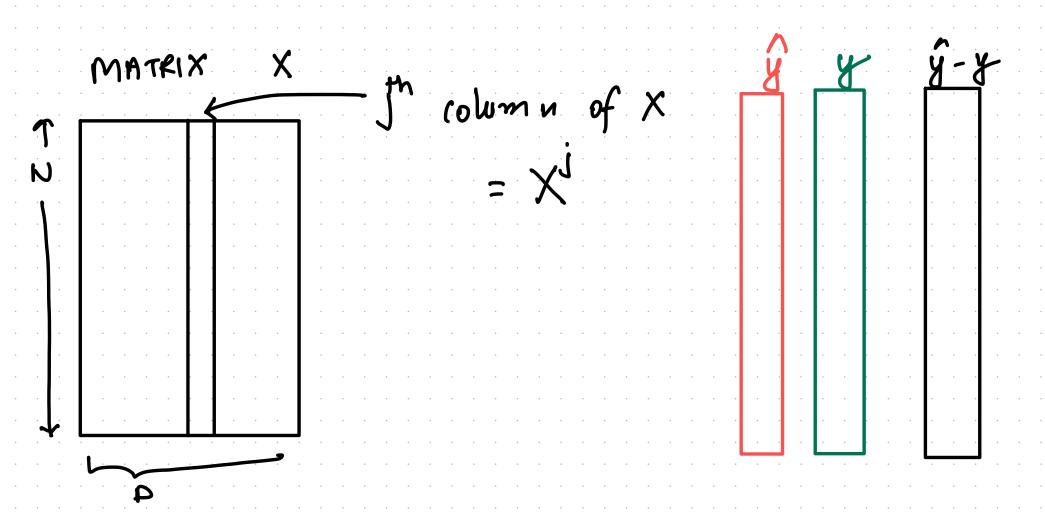
$$\frac{\partial J(\theta)}{\partial A_i} = \sum_{i=1}^{N} (\hat{y_i} - \hat{y_i})^{z_i}$$



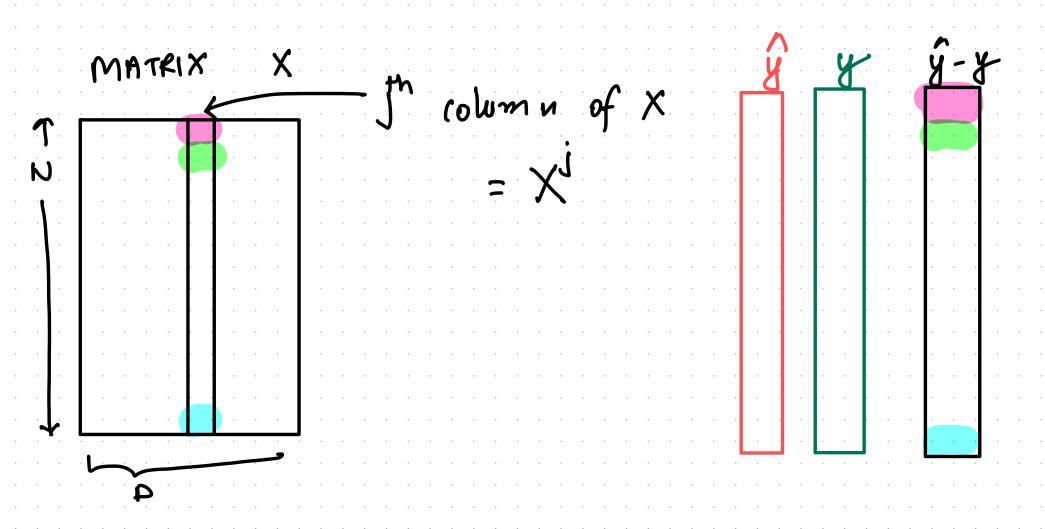
$$\frac{\partial J(\theta)}{\partial \Theta_{i}} = \sum_{i=1}^{N} (\hat{y_{i}} - \hat{y_{i}})^{z_{i}}$$

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$$\frac{\partial J(\theta)}{\partial \Theta_{i}} = \sum_{i=1}^{N} (\hat{y_{i}} - \hat{y_{i}})^{z_{i}}$$



$$\frac{\partial J(\theta)}{\partial x_i} = \sum_{i=1}^{N} (\hat{y_i} - \hat{y_i})^2 = \sum_{i=1}^{N} (\hat{y_i} - \hat{y_i})^2 = \sum_{i=1}^{N} (\hat{y_i} - \hat{y_i})^2$$

$$\frac{\partial J(\theta)}{\partial \Theta_{j}} = \sum_{i=1}^{N} (\hat{y_{i}} - y_{i})^{2} = x_{i}^{T} (\hat{y} - y_{i})$$

$$\begin{pmatrix}
x^{T} & y^{2} & y \\
x^{2} & (y^{2} - y^{2})
\end{pmatrix}$$

$$\begin{pmatrix}
x^{3} & (y^{2} - y^{2}) \\
x^{3} & (y^{2} - y^{2})
\end{pmatrix}$$

$$\frac{\partial J(\theta)}{\partial \Theta_{j}} = \sum_{i=1}^{N} (\hat{y_{i}} - y_{i})^{2} = \sum_{i=1}^{N} (\hat{y_{i}} - y_{i})^{2}$$

 $= X^{T} (\hat{y} - y)$