

$$\begin{bmatrix} \mathbf{U}_1 \end{bmatrix}$$

$$\begin{bmatrix} \mathbf{U}_1 \end{bmatrix}$$

$$\begin{bmatrix} \mathbf{X}_b \end{bmatrix}$$

$$\begin{bmatrix} \mathbf{W}_1 \\ \left[\frac{dJ}{d\mathbf{W}_1} \right] \end{bmatrix}$$

$$\begin{bmatrix} \mathbf{W}_1 \\ \boldsymbol{\theta}_1 \end{bmatrix}$$

$$\begin{bmatrix} \boldsymbol{\theta}_1 \\ \left[\frac{dJ}{d\boldsymbol{\theta}_1} \right] \end{bmatrix}$$