

$$\mathbf{U}_1 = f_1(\mathbf{X}\mathbf{W}_1^T + \theta_1) \quad \mathbf{U}_2 = f_2(\mathbf{U}_1\mathbf{W}_2^T + \theta_2)$$

$$\begin{bmatrix} x_{0,0} & \dots & x_{0,m} \\ x_{1,0} & \dots & x_{1,m} \\ \vdots & & \vdots \\ x_{n,0} & \dots & x_{n,m} \end{bmatrix}$$

