$$h_{\theta}(x) = \begin{bmatrix} P(y=1|x;\theta) \\ \dots \\ P(y=10|x;\theta) \end{bmatrix} = \frac{1}{\sum_{j=1}^{K} \exp(\theta^{(j)T}x)} \begin{bmatrix} \exp(\theta^{(1)T}x) \\ \dots \\ \exp(\theta^{(10)T}x) \end{bmatrix}$$