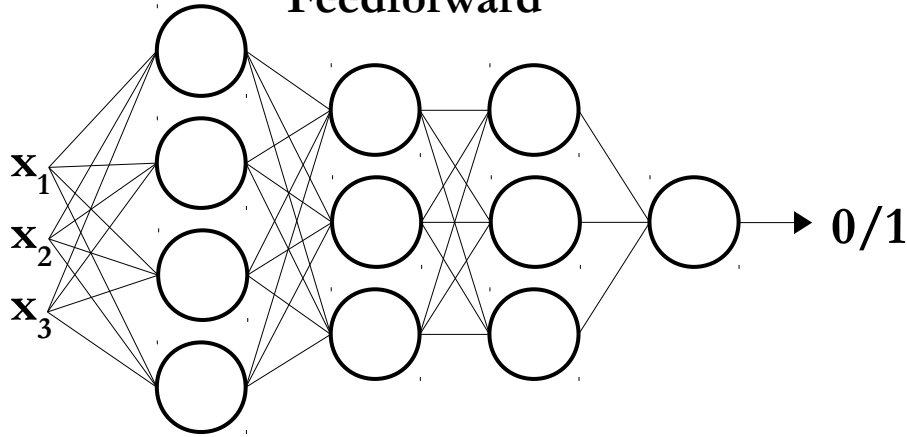


Deep Learning

Feedforward



How does the algorithm make a decision?

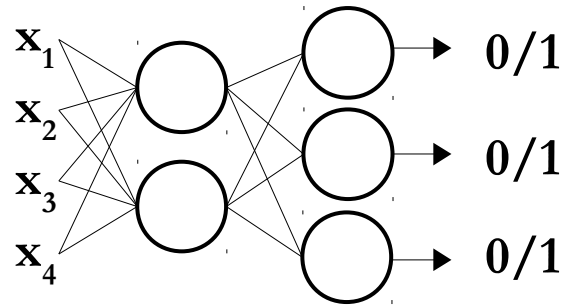


How do you determine the right parameters for the algorithm?



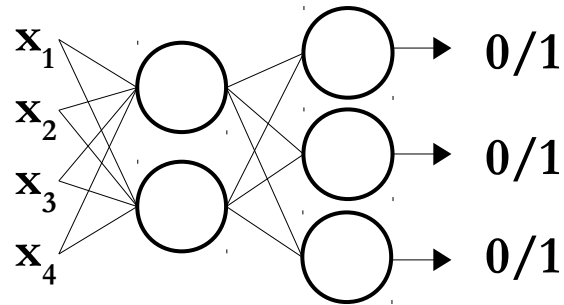
Iris Flower Data Set

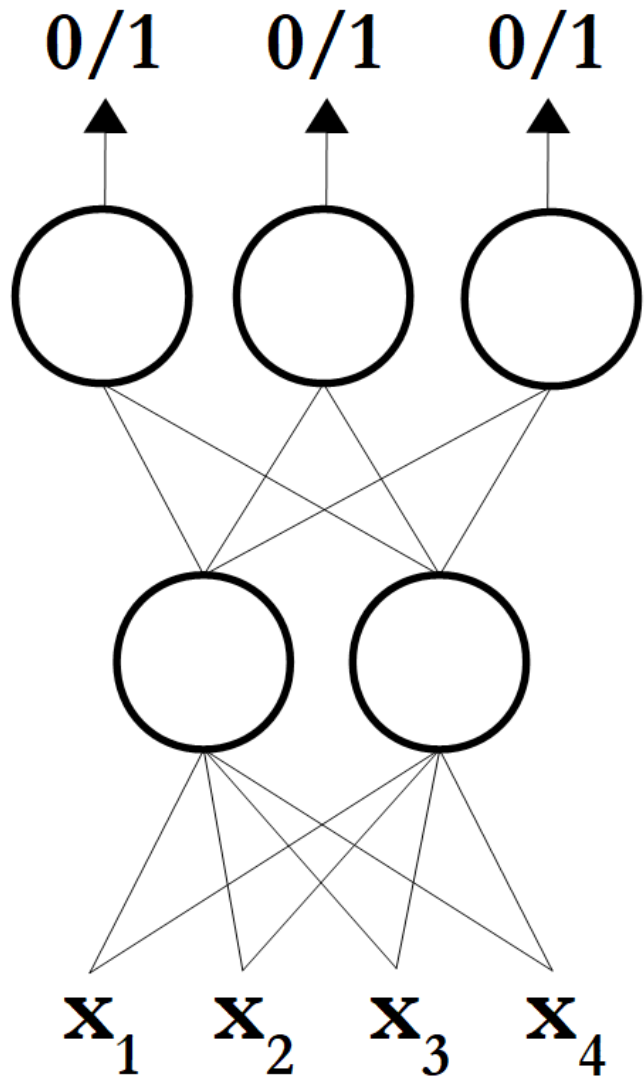
sepal_length	sepal_width	petal_length	petal_width	species
4.9	3.0	1.4	0.2	Iris-setosa
6.4	3.2	4.5	1.5	Iris-versicolor
5.8	2.7	5.1	1.9	Iris-virginica

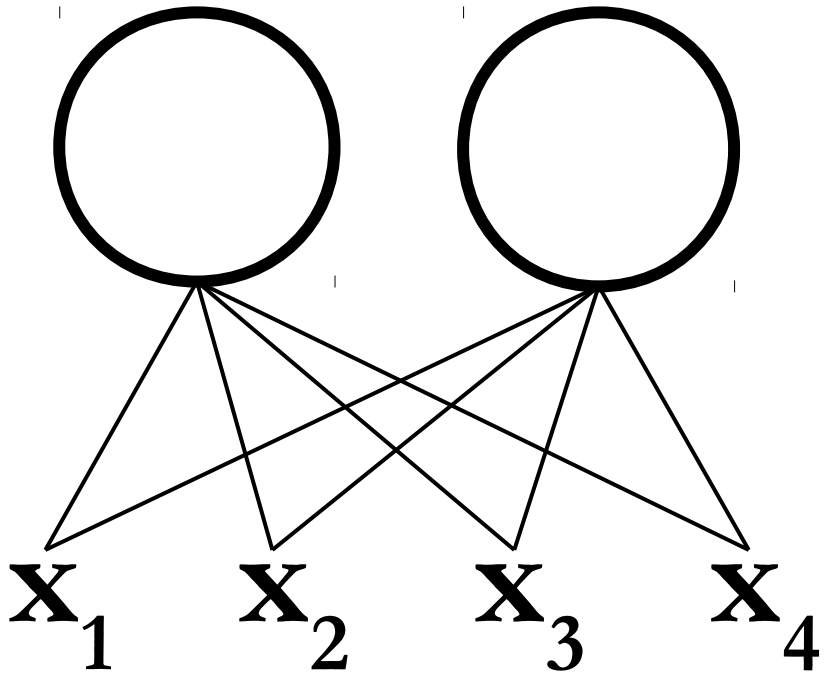


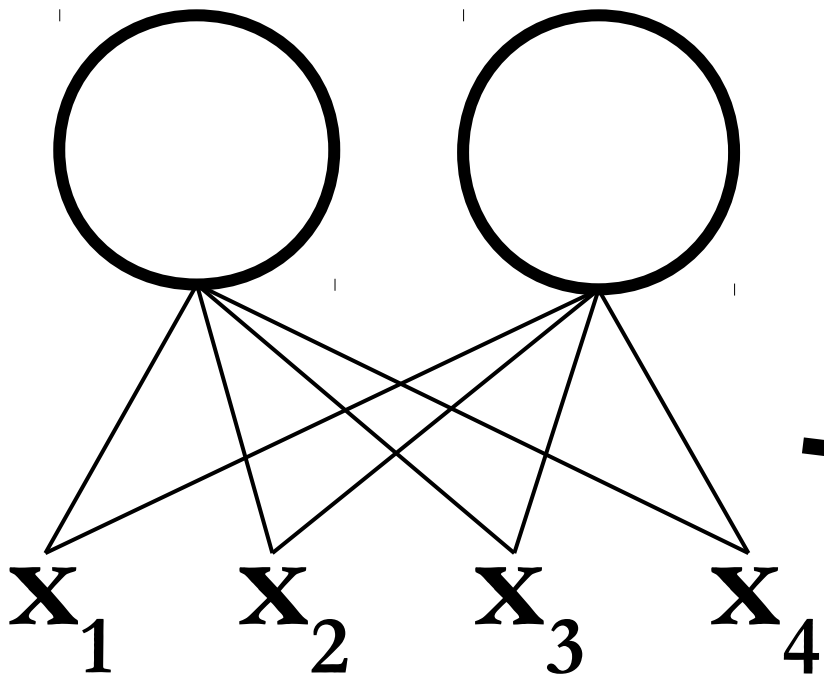
Iris Flower Data Set

sepal_length	sepal_width	petal_length	petal_width	Iris-setosa	Iris-versicolor	Iris-virginica
4.9	3.0	1.4	0.2	1	0	0
6.4	3.2	4.5	1.5	0	1	0
5.8	2.7	5.1	1.9	0	0	1

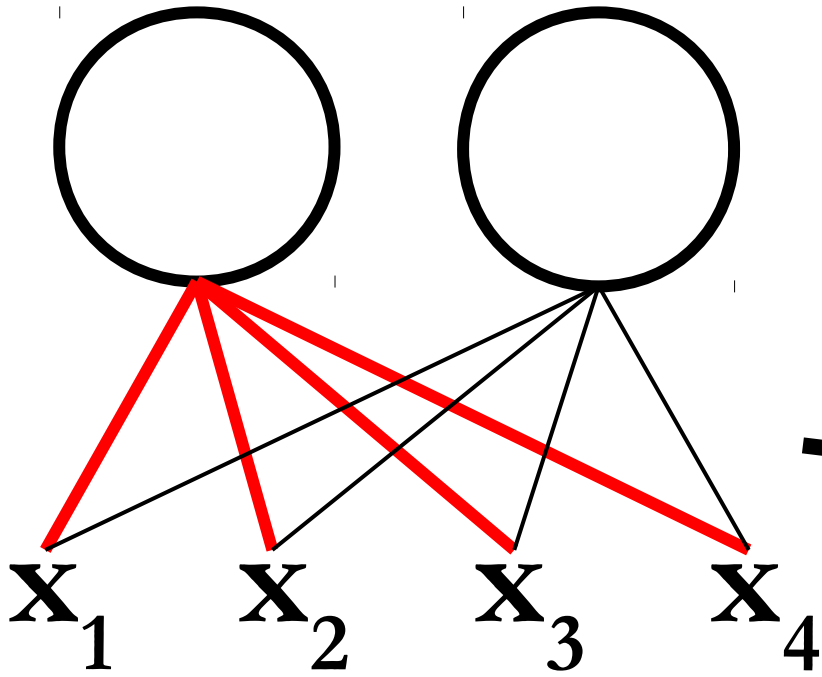




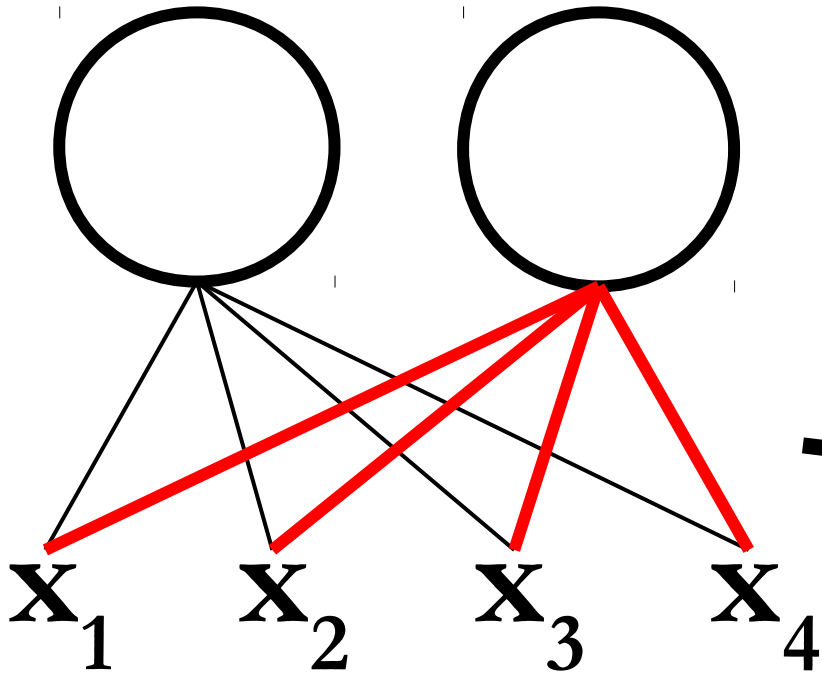




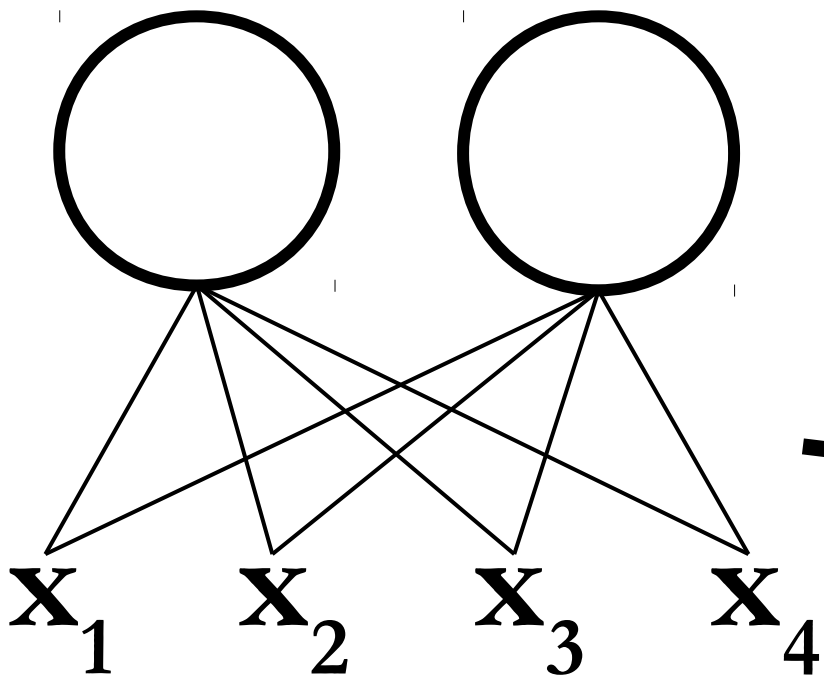
$$\begin{bmatrix} 0.9 & 0.8 & -1.0 & -1.0 \\ -0.5 & -0.5 & 1.5 & 1.0 \end{bmatrix}$$



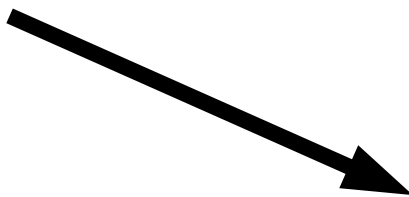
$$\begin{bmatrix} 0.9 & 0.8 & -1.0 & -1.0 \\ -0.5 & -0.5 & 1.5 & 1.0 \end{bmatrix}$$



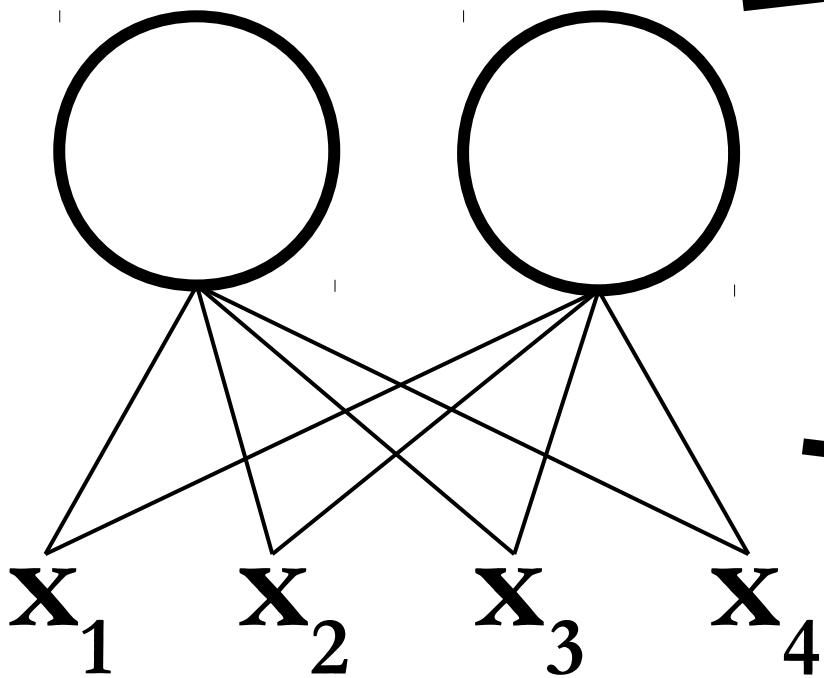
$$\begin{bmatrix} 0.9 & 0.8 & -1.0 & -1.0 \\ -0.5 & -0.5 & 1.5 & 1.0 \end{bmatrix}$$



$$\begin{bmatrix} 0.9 & 0.8 & -1.0 & -1.0 \\ -0.5 & -0.5 & 1.5 & 1.0 \end{bmatrix}$$



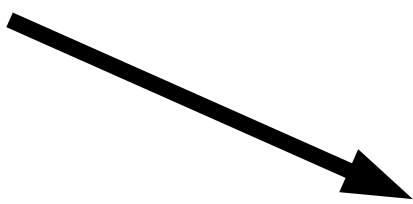
$$\begin{bmatrix} 4.9 & 3.0 & 1.4 & 0.2 \\ 6.4 & 3.2 & 4.5 & 1.5 \\ 5.8 & 2.7 & 5.1 & 1.9 \end{bmatrix}^9$$



$$\begin{bmatrix} [1 & 0] \\ [1 & 1] \\ [0 & 1] \end{bmatrix}$$



$$\begin{bmatrix} [0.9 & 0.8 & -1.0 & -1.0] \\ [-0.5 & -0.5 & 1.5 & 1.0] \end{bmatrix}$$



$$\begin{bmatrix} [4.9 & 3.0 & 1.4 & 0.2] \\ [6.4 & 3.2 & 4.5 & 1.5] \\ [5.8 & 2.7 & 5.1 & 1.9] \end{bmatrix}^{10}$$

