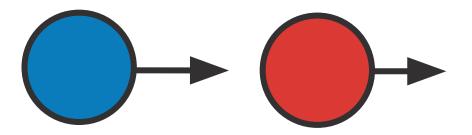
Artificial Neural Networks Classification

Deep Learning Pre-Work

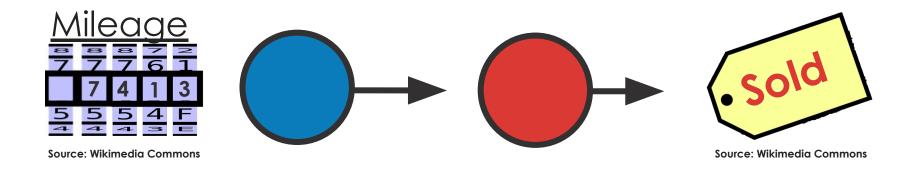
Example





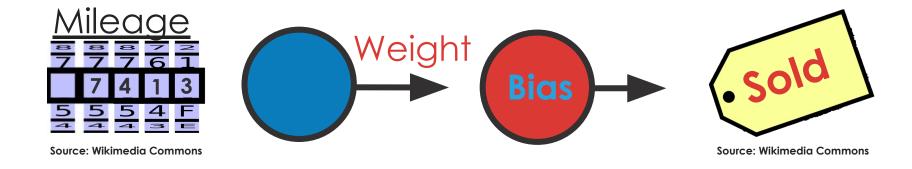
Example

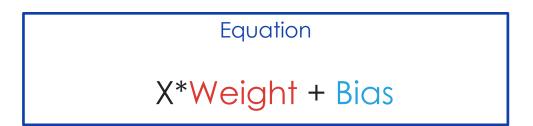




Example

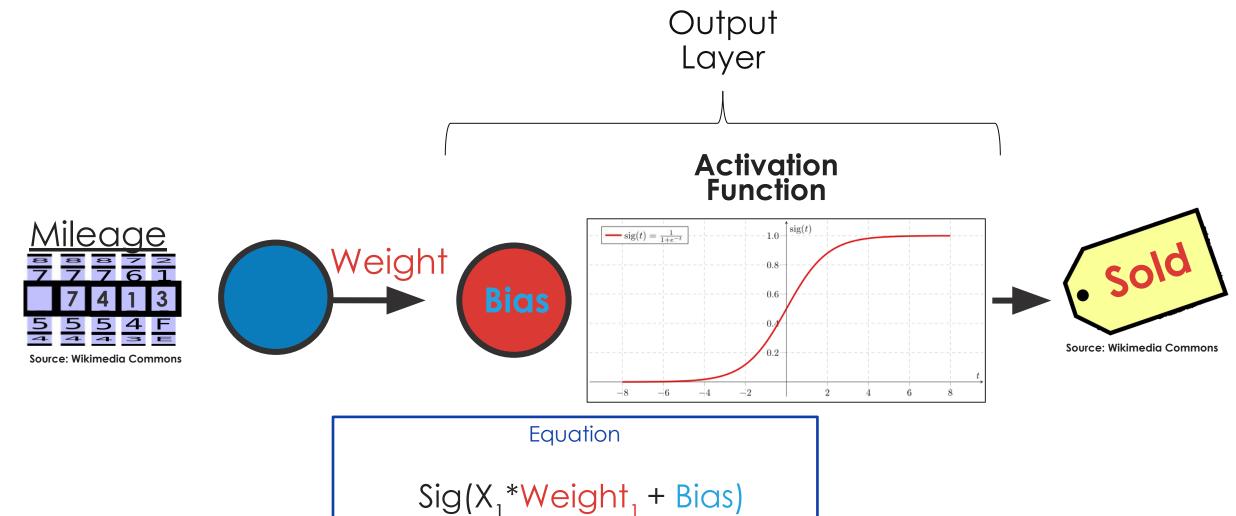






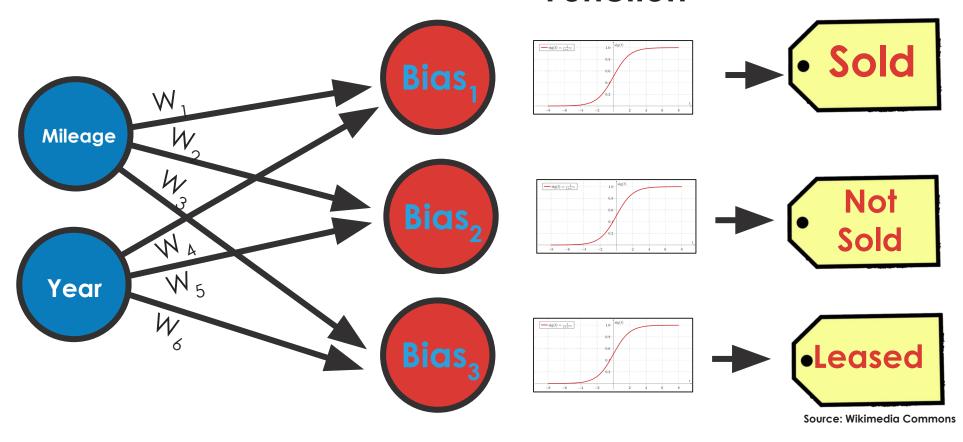
Sigmoid Activation Function





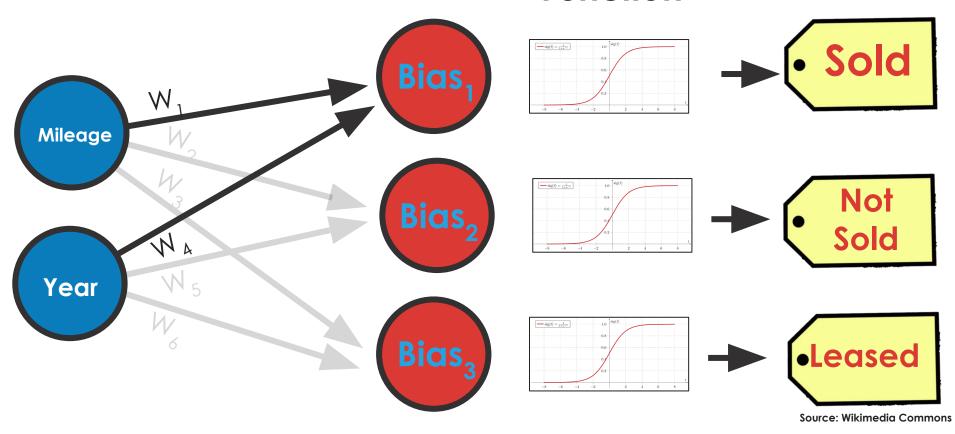


Activation Function





Activation Function

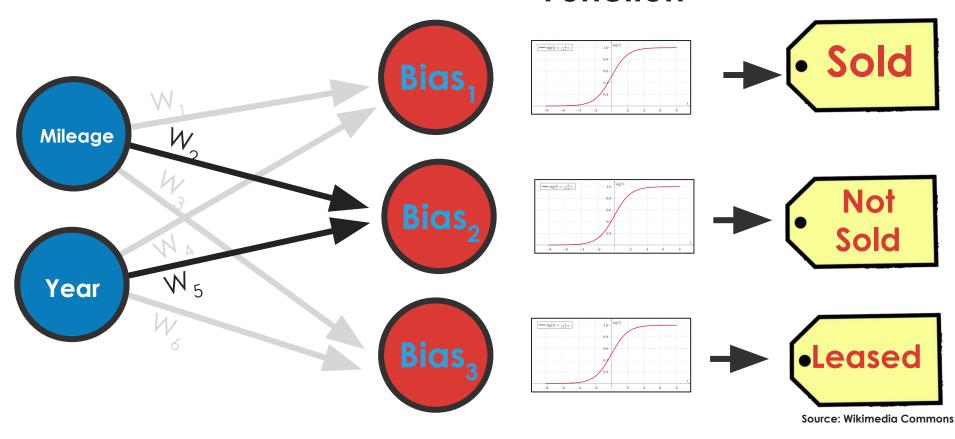


Equation

$$Sig(X_1^*W_1 + X_2^*W_4 + Bias_1)$$



Activation Function



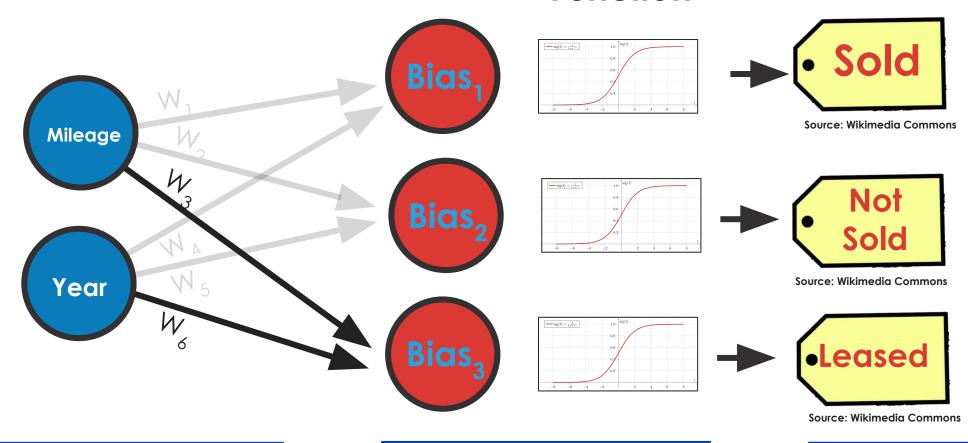
$$Sig(X_1^*W_1 + X_2^*W_4 + Bias_1)$$

Equation

$$Sig(X_1^*W_2 + X_2^*W_5 + Bias_2)$$



Activation Function



 $Sig(X_1^*W_1 + X_2^*W_4 + Bias_1)$

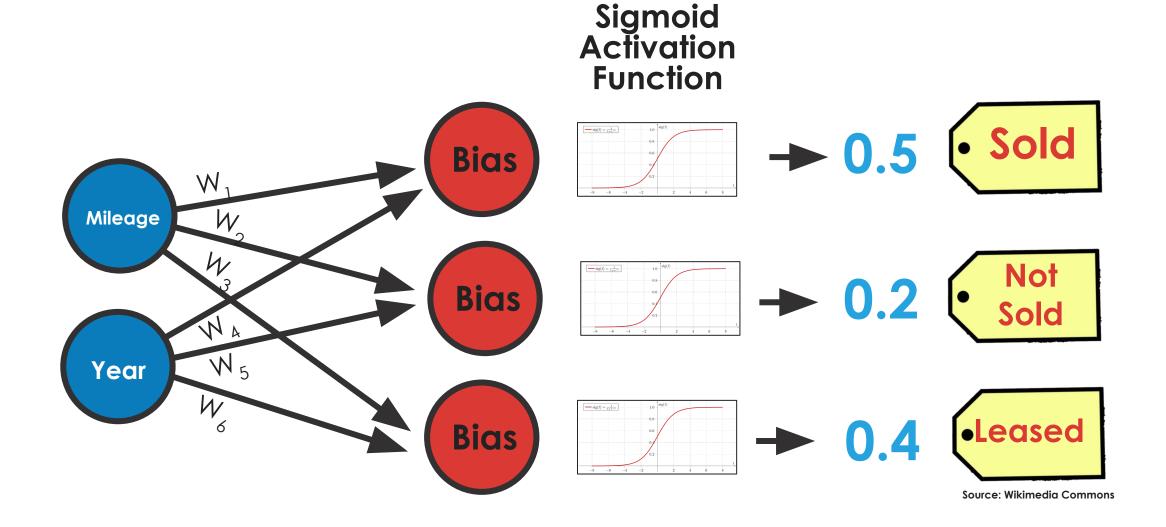
Equation

$$Sig(X_1^*W_2 + X_2^*W_5 + Bias_2)$$

Equation

$$Sig(X_1^*W_3 + X_2^*W_6 + Bias_3)$$





Softmax Activation Function



