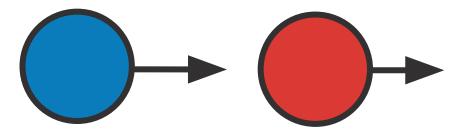
# Artificial Neural Networks Classification

**Deep Learning Pre-Work** 

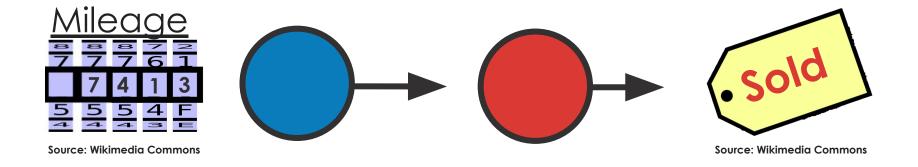
## **Example**





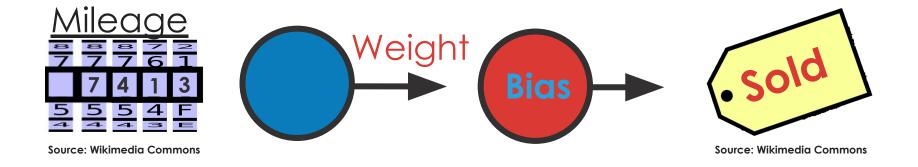
## **Example**

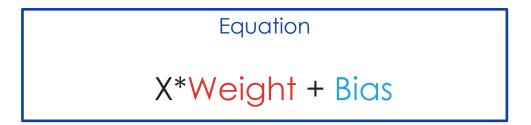




## **Example**

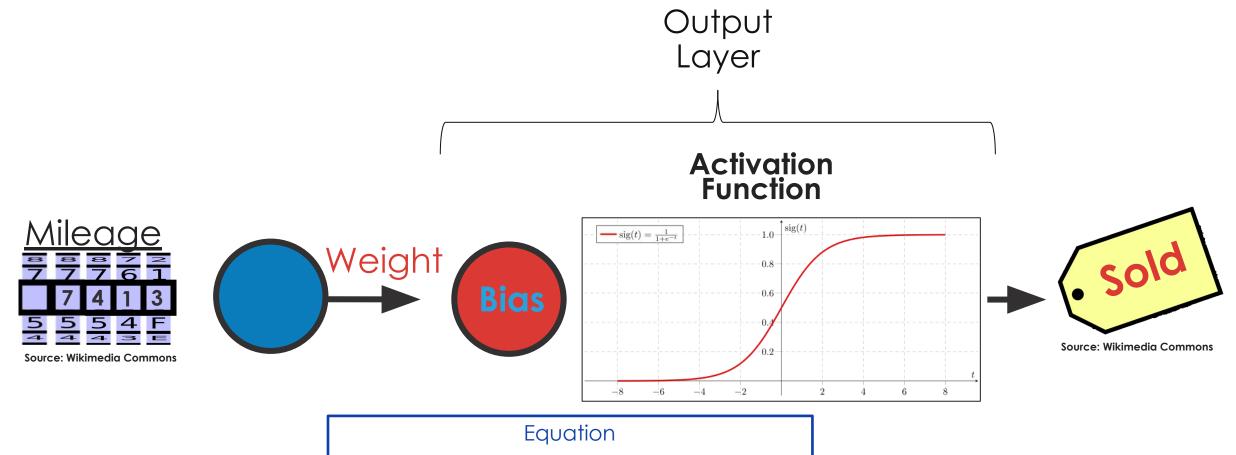






## **Sigmoid Activation Function**

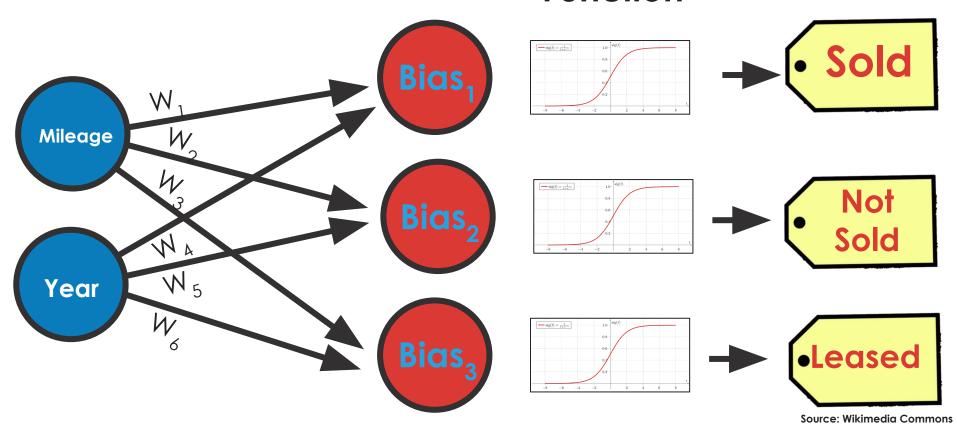




Sig(X<sub>1</sub>\*Weight<sub>1</sub> + Bias)

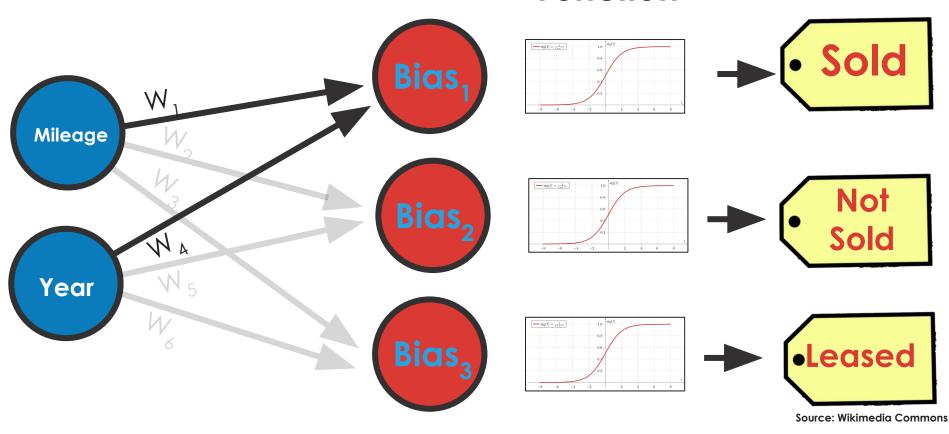


# **Activation Function**





# **Activation Function**

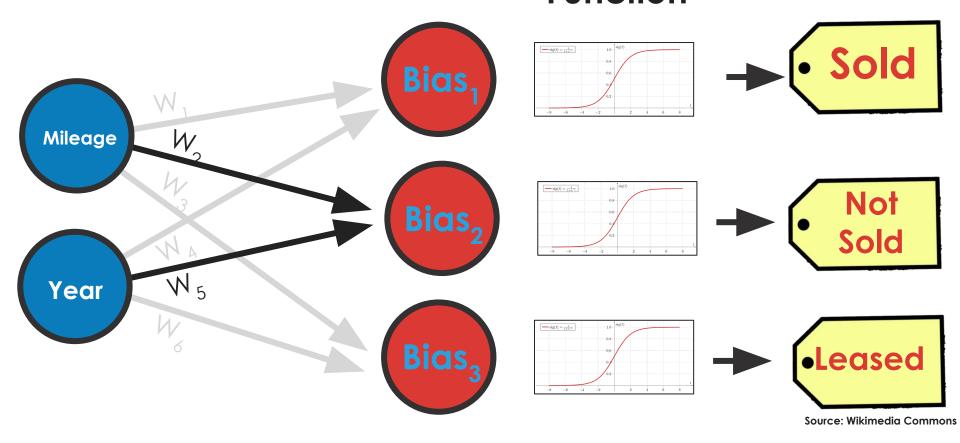


Equation

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



# **Activation Function**



Equation

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

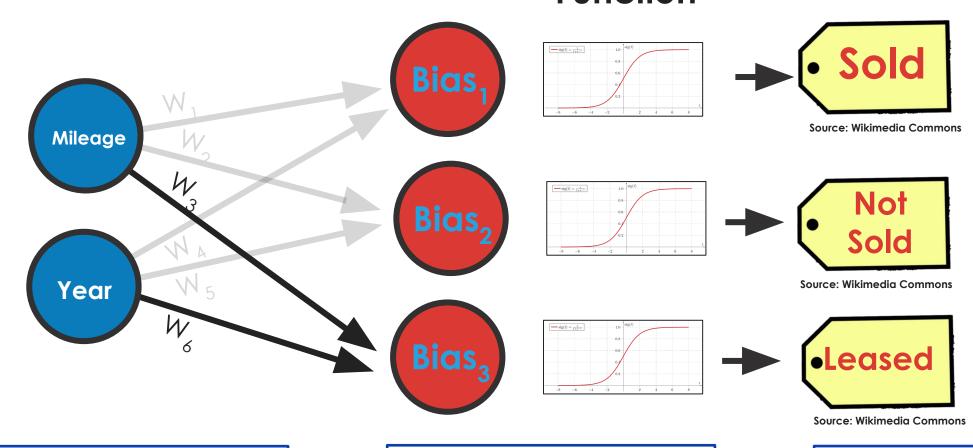
Equation

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

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# **Activation Function**



Equation

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

Equation

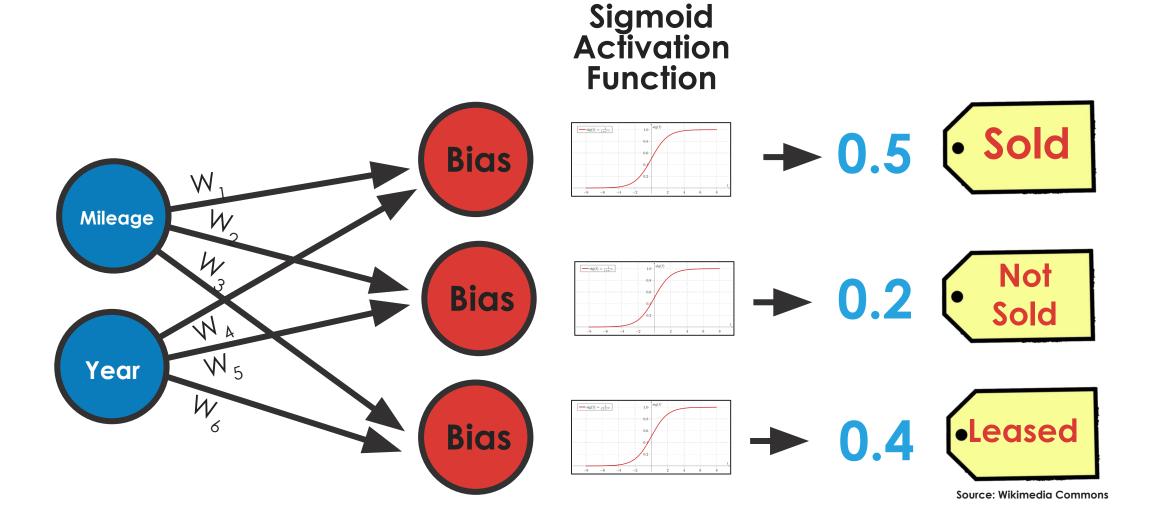
$$Sig(X_1^*W_2 + X_2^*W_5 + Bias_2)$$

Equation

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

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### **Softmax Activation Function**



