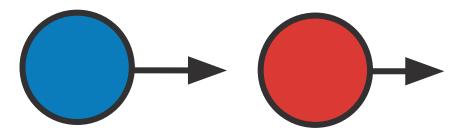
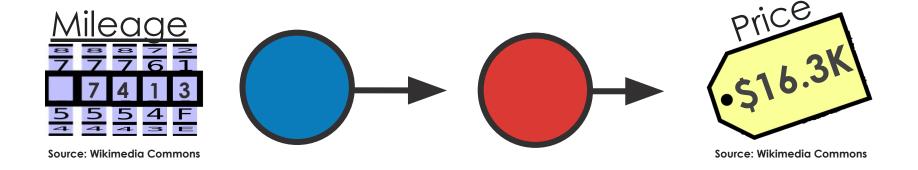
Artificial Neural Networks Regression

Deep Learning Pre-Work

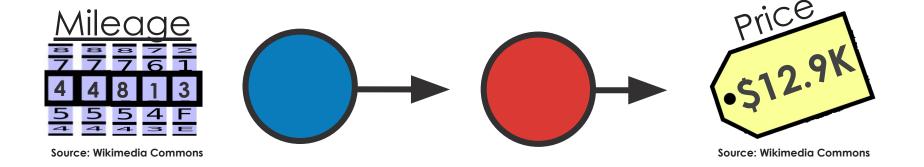




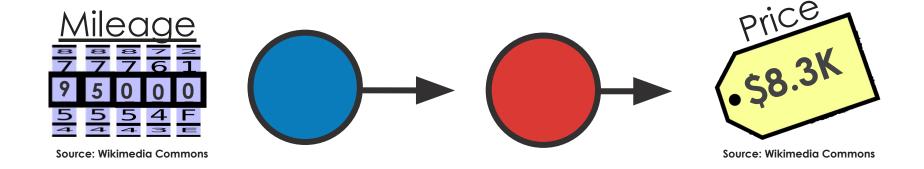






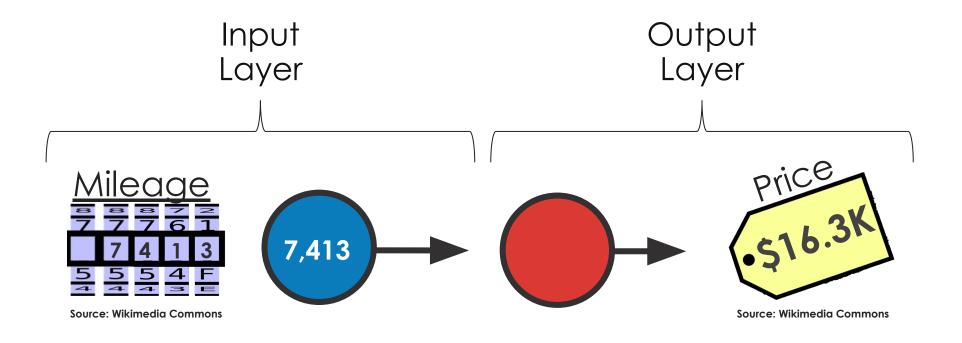






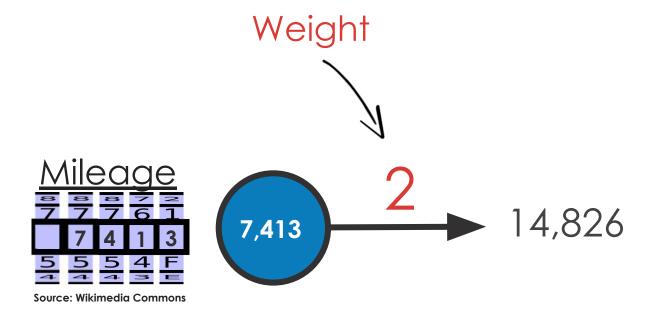
Input/Output Layers

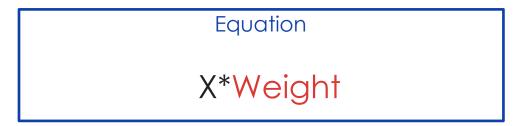




Weights

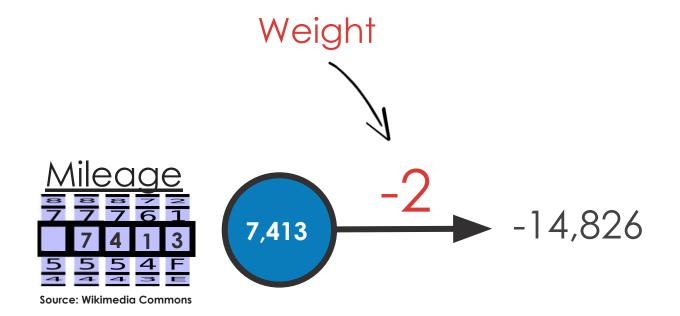


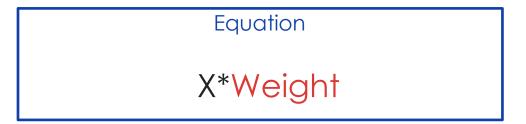




Weights

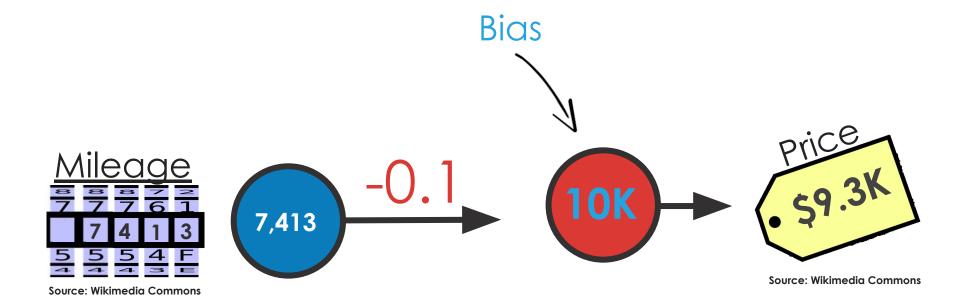


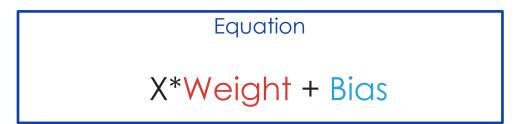




Biases

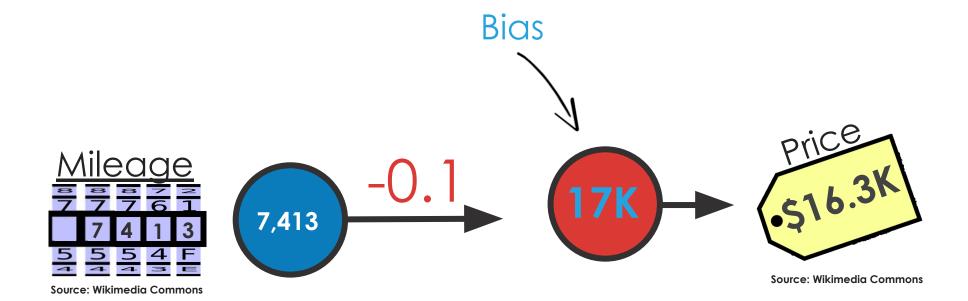


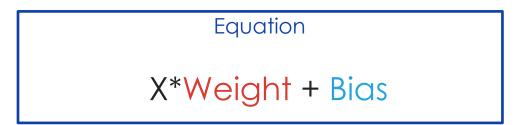




Biases



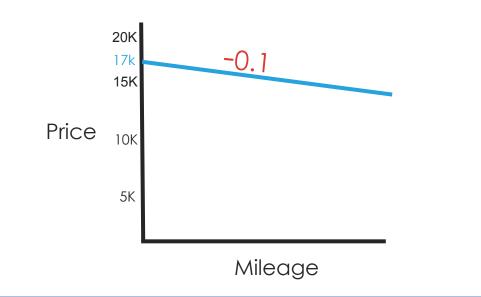






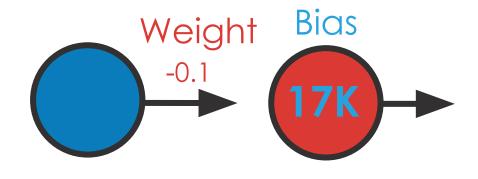
Linear Regression

$$\hat{Y} = X*Slope + Y-intercept$$



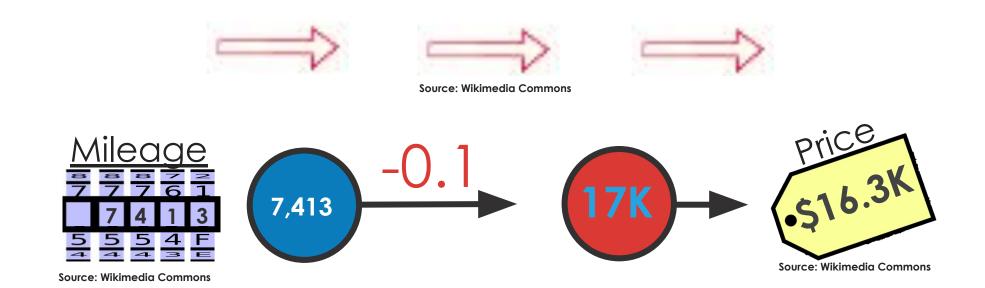
ANN

$$\hat{Y} = X^*Weight + Bias$$



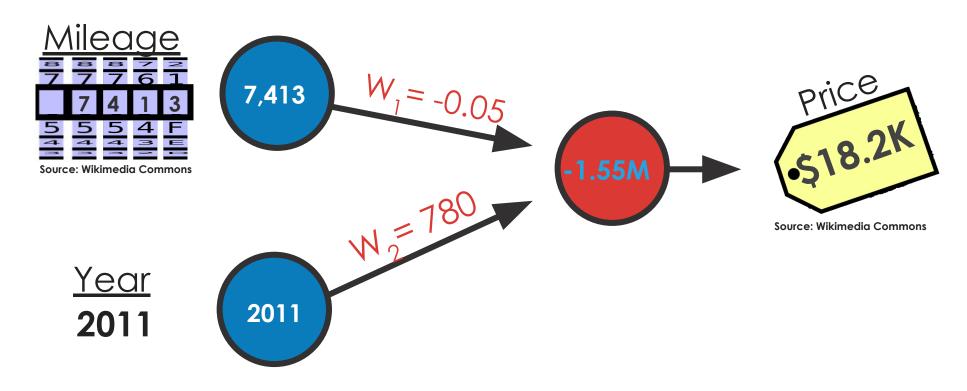
Forward Propagation





Multiple Input Neurons





Equation
$$X_1^* Weight_1 + X_2^* Weight_2 + Bias$$