# **Sigmoid Neuron**

## **Sigmoid Model**

### **Model Part 1**

Can we have a smoother (not-so-harsh) function?

1. The sigmoid function is provides a smoother, s-shaped curve as opposed to a stepped line.
2. 
3. The function is defined as y = 1/(1 + exp(-(Σiwixi + b)), where i = 1 to n
4. Substituting different values for (wTx + b) and y, we will be able to trace out a curve similar to the one drawn above