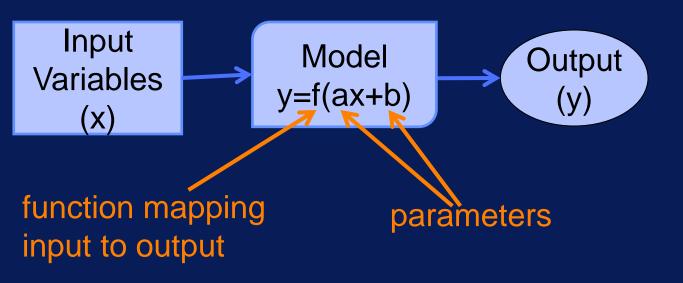
Building and Applying a Classification Model

After this video you will be able to...

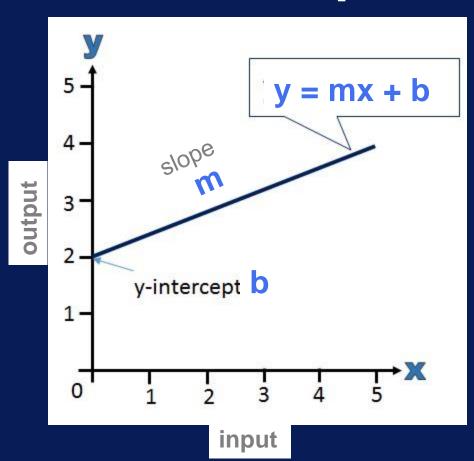
- Discuss what building a classification model means
- Explain the difference between building and applying a model
- Summarize why the parameters of a model need to be adjusted

What is a Machine Learning Model?

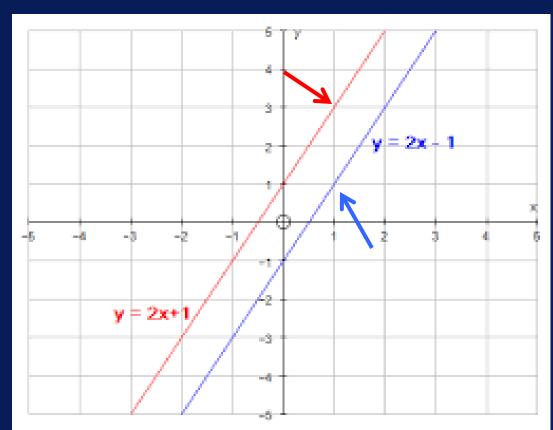
 A mathematical model with parameters that map input to output



Example of Model



Adjusting Model Parameters

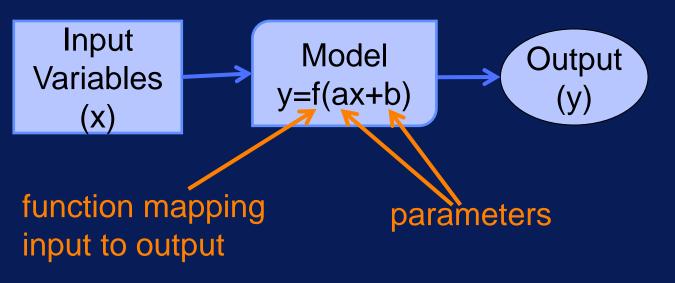


slope m = 2y-intercept b = -1x=1 => y=2*1-1=1

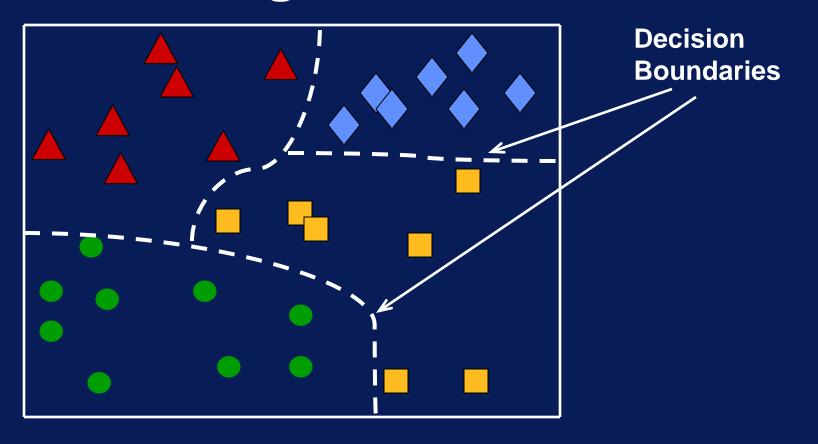
slope m = 2 y-intercept b = +1 x=1 => y=2*1+1= 3

Building Machine Learning Model

Model parameters are adjusted during model training to change input-output mapping.



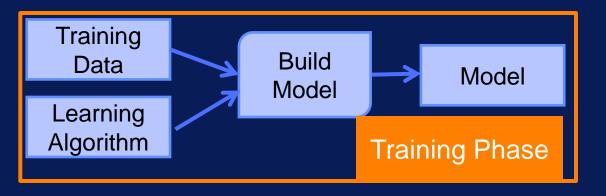
Building Classification Model

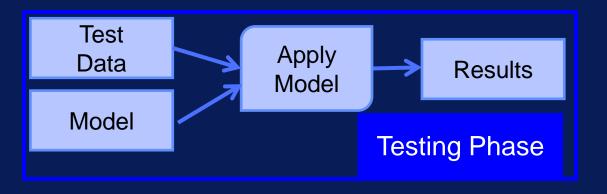


Building vs. Applying Model

- Training Phase
 - Adjust model parameters
 - Use training data
- Testing Phase
 - Apply learned model
 - Use new data

Building vs. Applying Model





Building a Classification Model

