Al & Machine Learning Lesson 5: Classification Models

Warm Up



Journal Prompt

Look at the image below.

- How many colors are in the image below?
- Try finding "yellow".
 - Owere does it start?
 - O Where does it end?



Discuss

If you could teach a computer to separate the colors, how would you do it?



Key Vocabulary

- Categorical Data data that can be separated into groups
- Classification predicting a category based on other features



Rhetorical Question of the Day

How do computers classify data?

Activity





Writing Prompts

Let's say you go to a friend's house and they make a meal that you've never eaten before, so you're not sure if you'll like it or dislike it.

What are some qualities you look for in foods that you think help decide whether you'll like it or dislike it?

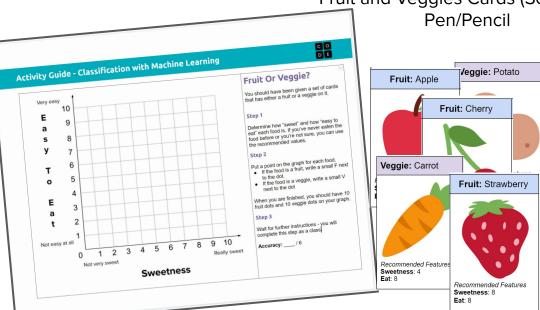


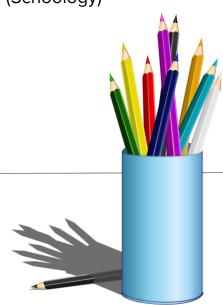
Classification with Machine Learning

You should have:

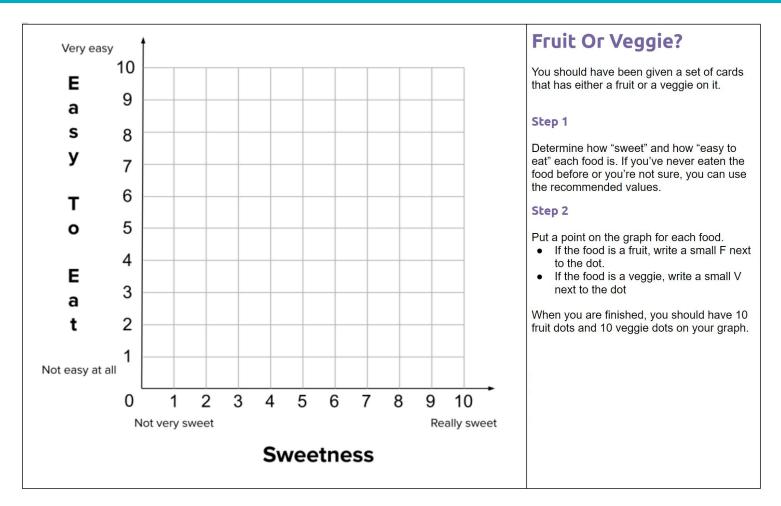
Classification with Machine Learning Activity Guide (Schoology)

Fruit and Veggies Cards (Schoology)

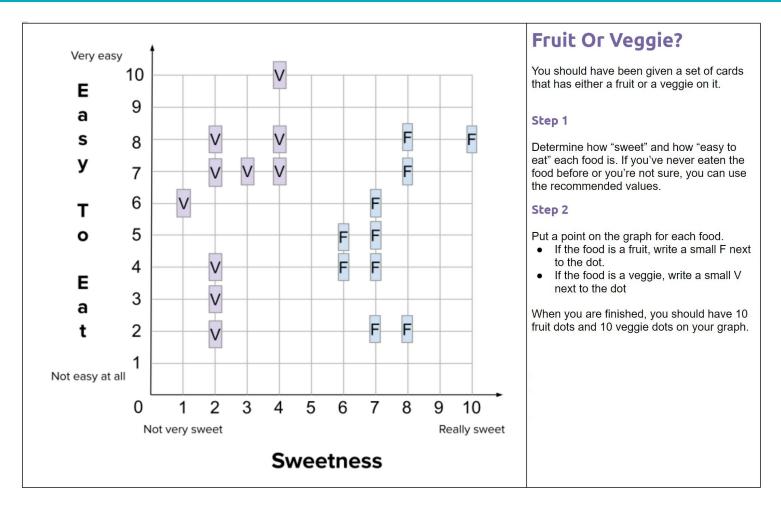




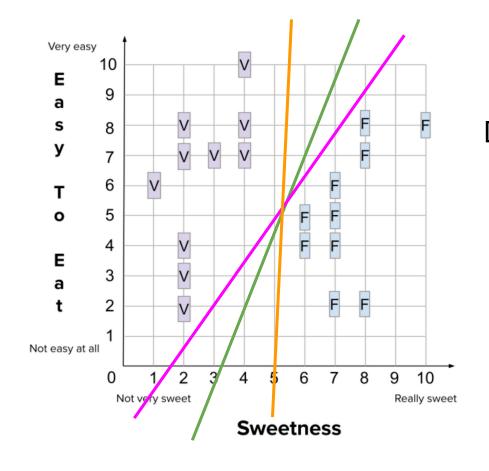












Do This

Draw a line on the graph to split it into two sides - a fruits side and a veggies side.

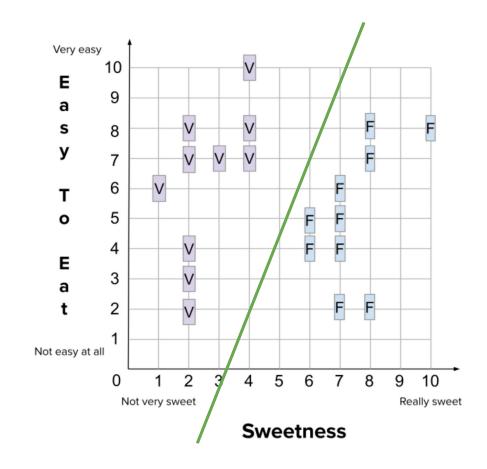
Several examples are on the left - make one of your own!

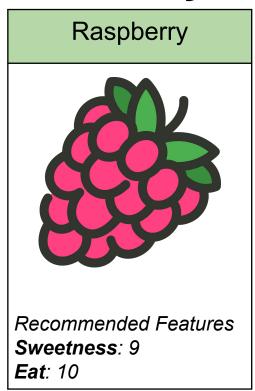


Testing Our Model

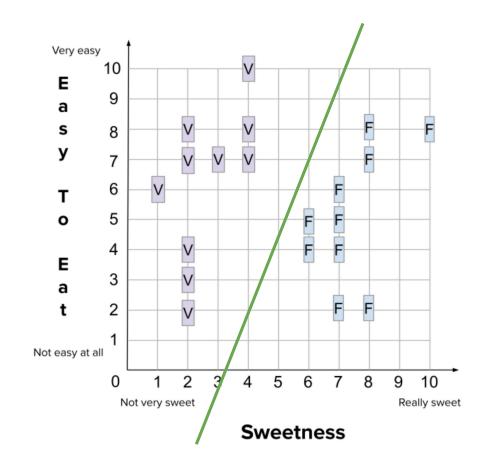
The next several slides have different foods to test against the model. Let's see how well our model does in deciding if something is a fruit or veggie!





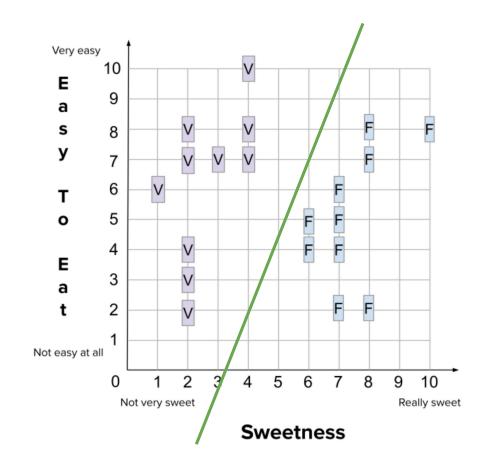


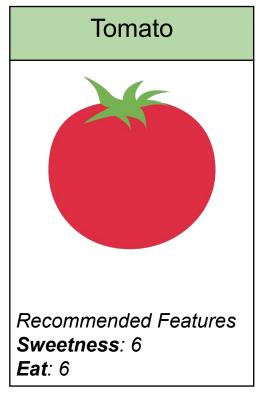




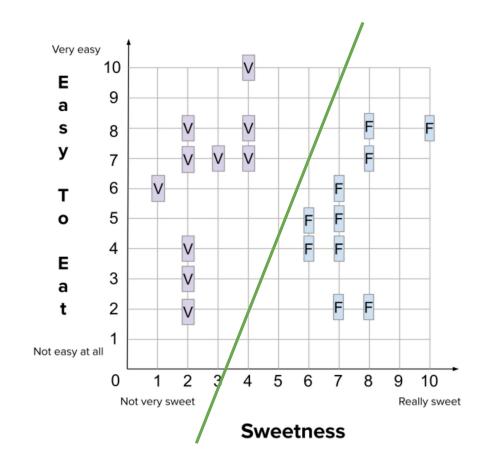






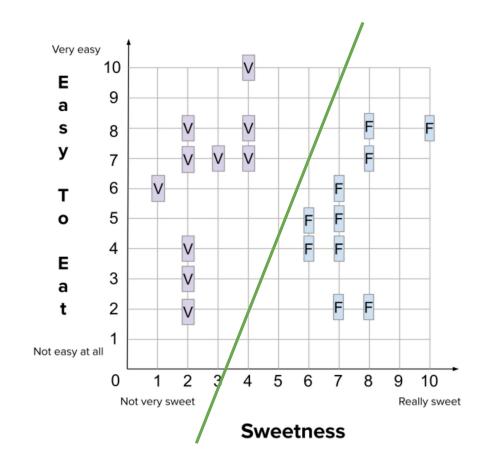






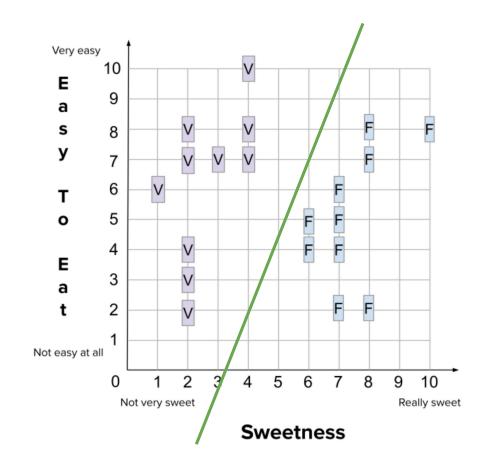


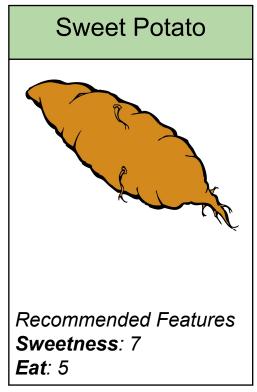




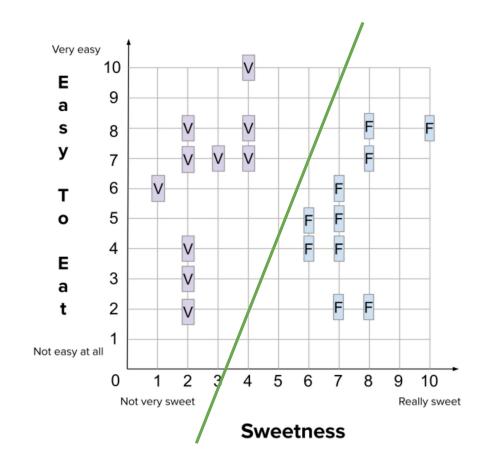


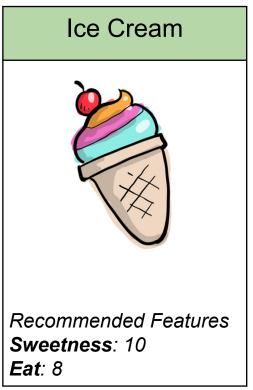




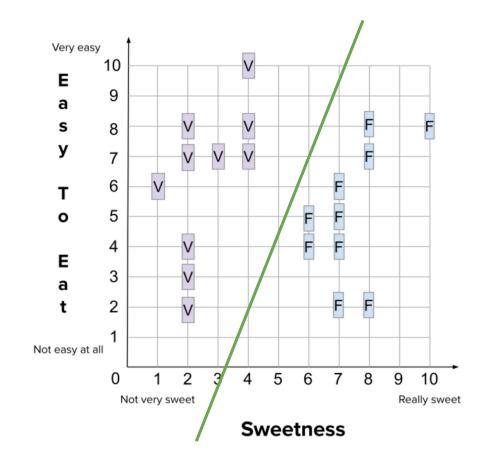














Wrap Up



Writing Prompt

If you were to break down what we did today into steps for a computer to follow, how would you describe those steps?



Question of the Day - Revisited Writing Prompt

How does classification work?