Chapter 1: Affinity

1. First, open Jupyter Notebook by first launching Anaconda Nevigator. **Use the Mac OS if you are using the lab computers!**
2. Download the code for today’s lab (and the rest of the labs) from Sakai under:
3. resources/labs/All Code from the Book (zip file)
4. Under the folder for chapter 1, find “ch1\_affinity.ipynb” and open it with Jupyter Notebook.
5. Read the code and try to understand it.
6. **Write additional code**, under the existing code, to get the program to tell you what is the customer LEAST likely to buy if they bought bread, based on confidence.
7. Challenge: Copy the original file. Try to accomplish everything in the original code with as few as possible lines of code. How many lines of code did you end up using? Example:

replace:

num\_apple\_purchases = 0

for sample in X:

if sample[3] == 1: # This person bought Apples

num\_apple\_purchases += 1

with:

num\_apple\_purchases = X[:,3].sum()