Week: 13 Date: 4/21/2022

15-110 Recitation Week 13

Reminders

- Check6-2 due tomorrow (4/22)
- Check6-1 revisions due tomorrow (4/22)
- Full HW6 due next friday (4/29), no revisions

Overview

- ML Fast Facts
- Monte Carlo: Code Writing
- Data Visualizations with Matplotlib
- HW6 Check in's

Problems

ML Fast Facts

That is the diffe	erence between	classification	, regression,	, and cluste	ering?		
hat is the diffe	erence between	supervised ar	nd unsuperv	vised learni	ng?	 	
//F: A commor	n step in machir	ne learning is	training on	testing da	ta		
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Data Visualization Practice: Matplotlib

Recall the ice cream data from lecture that contains the top 3 favorite ice cream flavors of 110 students from the past 3 semesters. Using the starter code provided, write the following two functions to visualize the data:

- 1) Write the function makeFlavorDict(data) that takes in a 2D list representation of the data and creates and returns a new dictionary mapping the #1 favorite ice cream flavor of students to a count of its occurrences. Use the "#1 cleaned" column of this data for this problem.
- 2) Using the returned dictionary from the function above, write the function visualize(dict) that creates a bar chart for each ice cream flavor.

Monte Carlo

Write a Monte Carlo Method to compute the expected number of units you will take in a given
semester at CMU. Assume you take anywhere from 3 to 5 classes a semester and each class is between 9
and 12 units. Hint: you may want to import a helpful package!