PROBLEM SET 5

Assigned: November 11, 2020

Due: Friday, December 04 at midnight

Opportunities for bonus points applied to your homework score. Any that you do must be turned in by the last data of finals. Be warned: I will run your code with an automated tool that compares it to publically available code on webpages and github. It is not fooled by simply renaming variables or functions.

- 1. Sign up for kaggle.com, pick any public dataset, and perform some kind of analysis of it. It could just be data cleaning and visualization, it could be a more in-depth exploratory analysis, or it could be actually doing classification or regression. Worth up to 10% boost in your *total* homework score, depending on how thorough it is. To turn this in just setup a time to show me what you have done.
- 2. Pick any publicly available dataset and design a machine learning assignment for the next time I offer the course. You can get some points for an interesting assignment about topics we have already covered, but to maximize the points choose a topic we didn't have a homework assignment on either deep learning or some topic we covered briefly or not at all. Worth up to 10% boost in your *total* homework score, depending on how thorough it is. Email me your submission, either as a python file, Jupyter notebook, or zip files.
- 3. Complete part or all of Andreas Müller's deep learning homework assignment here: https://raw.githubusercontent.com/amueller/COMS4995-s20/master/homework/homework5-aml-2020.pdf. Worth up to 20% boost in your *total* homework score, depending on how thorough it is. Email me your submission, either as a python file, Jupyter notebook, or zip files.