Homework1

March 31, 2023

1 Stats 21 - HW 1 - Due 4/15/2023 by 11:59PM

Homework is usually an opportunity to practice coding and to train your problem solving and critical thinking skills. Putting Python to use is where learning happens.

Copying and pasting another's solutions takes away your learning opportunities. It is also academic dishonesty.

ChatGPT is always allowed in this class, but do remember, it is not foolproof and if your solution looks too much like another submission, I am required to file a report

1.1 Suggestions before you start

- I recommend trying different things (e.g., PyCharm and its competitors) so that you can arrive at your own decision as to what works best for your needs.
- You can also watch some YouTube videos, such as (I do not work for them or get any money, they just talked about many of the tools you saw this week) https://www.youtube.com/watch?v=lLTjfbTMbC4

1.2 Assignment

1.3 Part 1

Please record yourself (so you need to be on screen, Zoom is a reasonable recorder with share screen) talking about and working with the following:

a. Jupyter notebook or Jupyter lab or Google Colab and demonstrate that you can create a new .ipynb file and modify it. Or that you can download an existing one and read it into your session.

b. PyCharm or comparable (e.g., IDLE, Visual Studio, Spyder) and show that you can create a new .py file, modify it and run it with visible results.

c. pip or Anaconda and prove that you can install a new package (any package, doesn't matter, suggest Pandas and Numpy if you don't already have them)

You can be as creative or as dull as you want to be. You improvise your video or you could ask ChatGPT to write a script for you (just try not to look like you are reading it, you are aiming for natural and relaxed) or something in-between. Please limit the total length of your video to 5 minutes. Thank you.

1.4 Part 2

Please make the recording available to me for viewing

- If the video can be uploaded to Bruinlearn, that would be most optimal, you can use compression software to shrink the size of a video OR
- If you have a YouTube account, upload it to YouTube and make sure I have access to the link. You can always set a video to Private if you don't want the whole world to see it

- OR some other method of allowing me to view it online. You are graded on content, not delivery.

To make certain that I have access to your video in the eventt that it cannot be uploaded to BruinLearn, please upload the link/location information on a document (PDF preferred) with your name somewhere on the document please. Thank you.