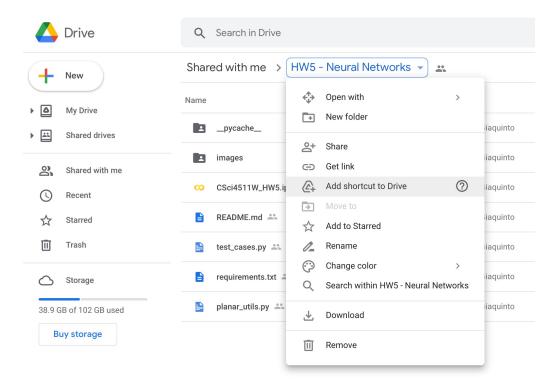
Homework #5



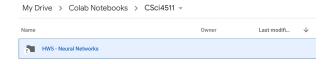
Due Apr 23 by 6pm **Points** 100 **Submitting** a file upload **File Types** ipynb, py, jpeg, jpg, pdf, zip, and txt

Go to the google drive folder with all the materials: https://drive.google.com/drive/folders
//unFnq0mhlKTslPEy8ThJ8z4r9Z6b3yeV?usp=sharing
//unFnq0mhlKTslPEy8ThJ8z4r9Z6b3yeV?usp=sharing)

Make a copy of the folder in your own google drive in the location "Colab Notebooks" > "CSci4511".



You should see this in your drive:



See the README file in the folder for how to complete and submit the notebook. Good luck!

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UPDATE: If you downloaded the notebook folder before 4/17/2021 you may get an error when trying to mount your google drive, just fix the typo by changing how the HW_PATH variable is set to:

```
HW_PATH = os.path.join(CLASS_PATH, "HW5 - Neural Networks")
```

HINT: Since we aren't assuming everyone is familiar in linear algebra, I want to clarify that unless the equations in the notebook specifically use the star "*" symbol, then it is referring to doing matrix multiplications. To do matrix multiplication use numpy, for example:

```
np.dot(W1, X)
```

If you do see the "*" in an equation that refers to element-wise multiplication, which you can do by:

```
np.multiply(np.log(A2), Y)
```

or, equivalently:

```
np.log(A2) * Y
```

Hope that helps!

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