1. Create a submission for this Kaggle competition, Image Classification of Stoke Blood Clot Origin: https://www.kaggle.com/competitions/mayo-clinic-strip-ai/overview/description

Description: The goal of this competition is to classify the blood clot origins in ischemic stroke. Using whole slide digital pathology images, you'll build a model that differentiates between the two major acute ischemic stroke (AIS) etiology subtypes: cardiac and large artery atherosclerosis.

Note: the data provided takes up 395.36 GB of space! I don't have anywhere near that kind of space on my machine. How can I work with the data without downloading it locally? I've seen stuff about loading it into CoLab, which is all well-and-good, but can I use that much space in CoLab? Or maybe simply running in through Kaggle's integrated notebooks?

- 2. Create a Skin Cancer Image Classifier:
 - a. ultimate goal would be to launch a site where a user could submit an image of a mole/mark they're concerned about and get a percentage likelihood that it's cancerous (or abnormal)
 - b. Looking for data....
 - i. Compilation of Data Sources: https://www.thelancet.com/journals/landig/article/PIIS2589-7500%2821%2900252-1/fulltext
 - ii. https://challenge.isic-archive.com/data/#2020
 - iii. https://www.kaggle.com/datasets/kmader/skin-cancer-mnist-ham10000
 - c. reference paper for some work done at Stanford: https://cs.stanford.edu/people/esteva/nature/
 - d. lots of code & project examples online from folks who have approached this challenge
- 3. A fish-keeping image classifier: a program that could take an image of a fish (or plant?) taken at a fish-store and give feedback on what the species is, what the needs of the species are, and potentially even whether it's compatible with their current tank setup at home.
 - a. web-scrape fish data
 - b. find labeled images via web search (?)
 - c. maybe starting with "freshwater tropical" since that's what I'm most familiar with
 - d. could start by scraping this Wikipedia page to get a framework/list of fish to build out the dataset and model on:
 - https://en.wikipedia.org/wiki/List of freshwater aquarium fish species