**Friday, September 22, 2023**

One of my deliverables is inventorying the parts we currently have available so that I can determine what is needed to get the car working and send a list of parts needed. I did that for the first half of class and put my results in a spreadsheet. Then, I continued working on transfer learning. I re-wrote my training script using the Keras Applications API I mentioned last week. However, it ran into an out-of-memory exception on my personal computer’s GPU (which has 12 GB of built-in RAM). I fixed the issue by decreasing batch size, although this made training much slower. Currently I am training with the EfficientNetV2B1 model and a Dense layer going to a single output which is the steering angle of the car. First, I froze the EfficientNet layers and then trained only the Dense layer. Then, I unfroze the entire model and trained it across the whole model with a lower learning rate as to not overfit.