Journal Report 9
11/11/19-11/15/19
Addison Phelps
Computer Systems Research Lab
Period 2, White

Daily Log

Monday November 11

I spent time looking online as to how other people were implementing ResNet50 on their datasets, and I noticed that many people were coding out each and every individual layer with relatively the same structure so I thought I would try implementing ResNet50 in that way.

Tuesday November 12

Spent time coding the layers of the ResNet50 network + Yolo classification layer. It was mostly copy-paste and some adjustments, will be sure to leave credits as to where the network was based off of.

Thursday November 14

Spent more time adjusting my original network in a new file, and worked on figuring out how to work on my desktop remotely.

Timeline

Date	Goal	Met
10/28	develop a running object detection framework	yes (well, kind of)
11/04	develop a running object detection framework able to detect logos in realtime	no - not yet
11/11	develop a running object detection framework able to detect logos in realtime at least 50 percent accuracy	no - not yet
11/18	develop a running object detection framework able to detect logos in realtime at least 80 percent accuracy	no - not yet
12/2	develop a running object detection framework able to detect logos in realtime and blur possible logos	no - not yet

Reflection

I moved my goals back a bit just because my final winter goal is detecting ”easy” logos with 90 percent accuracy at around 30 fps, and I felt that my earlier goals were a bit ambitious. Last week I did not focus much on the object detection side of my network and more on the image classification again. I tried modifying the original network's classification layer after I noticed many other people implementing it the same way. I'm almost done getting it ready to train and hopefully I see better results than from before. Another thing I was working on is figuring out how to remotely upload files to my desktop at home because I think it would make me much more productive during class time. Usually, I have to code different methods or just research and have to train/implement them at home because my laptop isn't quite powerful enough to train my networks quickly and I don't want to drain its battery.

Winter Goal

Detecting 90 percent of ”easy” logos in around 30 fps.