Journal Report 9

11/11/19-11/14/19

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Period 4, White

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**Daily Logs**

**Monday, November 11:**

I found Linux commands on the CUDA website that will allow me to install CUDA on a Linux system and run a GPU through there.

**Tuesday, November 12:**

I found Linux terminal commands I could use to determine different elements of the Linux system installed on the Syslab computers (like version, architecture, etc.) and used those to install the right version of CUDA on a Syslab computer. Then I created my first GitHub account and figured out how to update my project repository.

**Thursday, November 14:**

I began trying to train YOLO by trying out different commands in the terminal and working through the subsequent errors. Based on these errors, next week I need to work on moving all the files I need to their proper place in the darknet directory and resolving an error with the CUDA installation.

**Timeline:**

|  |  |  |
| --- | --- | --- |
| Week | Goal | Met? |
| 10/28-10/31 | Finish installing YOLO dependencies and darknet in CMake on Windows computer | No longer necessary |
| 11/6-11/7 | 1.Install darknet on a Syslab Linux computer and successfully run a premade YOLO test program  2.Move all the images and configuration files from my personal computer to the Syslab computer so I have all the necessary files for training YOLO | Yes |
| 11/11-11/14 | Install a GPU or find a substitute | Yes |
| 11/18-11/21 | Successfully run training program | No |
| 11/25-11/26 | Begin working to increase accuracy of program | No |
| 12/2 - 12/5 | Get training program to correctly identify handicap parking passes more than half the time | No |
| Winter goal | Get YOLO to identify handicap parking passes in photos with 80% accuracy | No |

**Reflection:**

This week, I created my first GItHub account and learned how to commit updates. On Tuesday, I finished installing CUDA using instructions from the CUDA website, and now I should be able to train YOLO with a GPU. As of now, I have the GPU and all the files I need to run the training program. On Thursday I started trying commands in the terminal to train my program and working through the errors, notably including “No such file or directory” errors (that I think indicate some files are misplaced in the darknet directory) and “unsupported GNU version” errors with CUDA. When I resolve these errors, I will be able to start training my YOLO program, which brings me closer to my winter goal of training the program to reach a specific accuracy level.