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**Daily Logs**

**Monday, September 30:**

I started creating the 3 necessary YOLO configuration files. I successfully created the two that relate to object information and information on what files and object classes should be used for training. The third configuration file involved downloading the YOLO’s pre-trained weights. I wasn’t able to download this file and realized it’s because I haven’t installed darknet yet.

**Tuesday, October 1:**

I researched how to install darknet on a Windows computer. I found an article that shows how to install darknet using CMake, which I installed earlier. Essentially, I create a CMake project and configure all of the YOLO dependencies (including darknet, CUDA, and CUDNN) inside the project.

**Thursday, October 3:**

I started a CMake project and began adding some of the YOLO dependencies to it. However, some of the dependencies move into a file called “Ungrouped Entries”, which I think means I am not correctly specifying their file path and am therefore attaching a variable with the dependency name instead of the dependency itself.

**Timeline:**

|  |  |  |
| --- | --- | --- |
| Week | Goal | Met? |
| 9/16-9/19 | 1.Install tkinter  2.Use the BBox Label Tool to draw bounding boxes around the handicap parking passes in each photo in the training set. | Yes |
| 9/23-9/26 | 1.Research how to train a program to detect a custom object in YOLO  2.Begin writing training program | Yes |
| 9/30-10/3 | 1. Finish installing darknet  2.Create 3 YOLO configuration files | Started installing darknet; installed ⅔ configuration files |
| 10/7-10/10 | 1.Finish installing darknet  2.Create 3rd YOLO configuration file  3.Determine correct number of iterations to prevent overfitting | No |
| 10/15-10/17 | 1.Finish writing training program and get it to run without an error message | No |

**Reflection:**

This week, I started working with the YOLO dependencies to try to install darknet. This is the largest project I’ve done that involves so many different online programs, like CMake and OpenCV. This helps me learn about how to find programs for functionalities I need and learn how to use them through online documentation, as opposed to coding everything myself. I am also learning a lot about general computer usage, like how to use the command line and file path names.