Meeting - 02/14/23

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What did we do last week?

- **Gilles**
  - Recorded ~3 hours of footage on Pi camera for training purposes for multiple objects, some clips may be used for testing
    - Camera focus is rather sensitive, after vibrations from the car in long drives the focus changes
    - Camera lens is very zoomed in, works for footage collection for training, testing will need a smaller zoom or wide angle lens
    - Footage is also being collected through mobile device cameras on drives for extra data collection
    - Storing all videos in Google Drive
  - Enhanced Road Signs dataset by 450 images, cleaned up data that was input earlier on in the project term, inaccurate annotations and unrealistic points of view are negatively impacting the results come testing on dash cam videos

- The ability to pass multiple weight files into a single detect run has been removed by the YOLOv7 creators due to lacklustre performance, will need to find a new way to run multiple models together
    - Run 4 instances of YOLOv7 "detect.py"
    - Combine intermediate and finalized datasets into one model (weight file)
        - Will need to look into the performance gain/loss from this approach
        - More research needs to be done on how this can be done while maintaining or improving on current results, and compared to running 4 separate instances
- **Josh**
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- **Kareem**
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- **Frank**
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What are we doing this week?

- Discuss with pedestrian group distance estimation
- Determine how to connect models into a cohesive system

Potential blockers?

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Action items

- ☐ Discuss results from various tests in final report.
- ☐ Start to think about the outputting of data.
- ☐ Get barricade footage from the sides of the road - Kareem