**WEEKLY REPORT and MEETING AGENDA**

Report #: 4 Project Name: 2N1

Date: 3/9/2023 Prepared by: Jackie Mioduski

| Agenda for the weekly meeting |
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| 1. Discussed progress made over the week and our plans for the next sprint 2. Discussing proposed project design changes and explicit descriptions to update (reduction of scope) 3. Discussing availability over Spring Break 4. Deciding on who will do the next report - Coleman 5. Dividing up the work for the Critical Design Review and presentation:    * Jackie - Proposal design    * Ani - validation/testing procedures    * Coleman - division of labor/responsibilities & implementation schedule    * Fabi - Introduction    * Spencer & Tyler - System Description    * Everyone - module-wise specifications |
| Accomplishments during this period |
| 1. Refined vehicle detection using pretrained YOLOv8 model classes (cars, motorcycles, trucks), confirmed through testing 2. Vehicle tracking and counting (assigning numbers) using ByteTrack and Supervision 3. Testing FPS and timings for processing annotated video 4. Front end progress with component placement, analyst view, and data table |
| Plans for next period |
| 1. Running MongoDB server in Docker for the UI to set up data input (local & possibly external) 2. Working on the Critical Design Review over Spring Break and the week coming back 3. Researching front end data table and filtering 4. Machine Learning/back end progress on vehicle states (Stopped/Moving/Parked) |
| Project management status |
| 1. Division of labor accomplished for next period 2. Front and back end basic structures and functionality are coming along (GUI display and ML tracking/labeling) 3. Basic scope of the project is defined and classification/database is the next step 4. Teamwork is mostly split by front/backend groups - we will collaborate to connect the components in a future sprint |

| Minutes from previous meeting |
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| 3-2 Weekly Meeting (Discord), 9 AM   * Finalize project scope w/ rep   + Discuss questions to ask representative   + Ask additional questions regarding user interface * Discuss backend details regarding database * Discuss priorities of project i.e. CV pipeline over UI   + Discuss various vehicle states and which to prioritize * Begin work on testing various ML models   + Research into various aspects of YOLO and Deepsort/Bytetrack   3-6 Meeting to discuss progress (Discord), 6 PM   * ByteTrack demo * Front end difficulties * Plans for the week |