

This is the rough notes for what was happening week-to-week in chats, webcalls, and github kanban boards.

20/12-27/12

All task are done except for making powerpoint

12/12-19/12

Models are complete, reports are all that is needed

5/12-11/12

We needed a different format for Yolo though CVAT has it provided.

Training done for initial training and posted in github.

Hyperparameter tuning and retraining can start

Dmitrijs has a method to improve model, we will go with that approach

28/11-4/12

Group meeting with Pavlyuk if the idea that Dmitrijs is feasible for using the Yolo model.

Adjusting changing the training baseline since does align with project rubric.

Pavlyuk agreed so we Dmitrij will train with Yolo

20/11 - 27/11

1001 objects labeled. Labeled exported as PASCAL VOO on repo. DG will organize and start training models. Eden will consult Palyuk to see if we are there is acceptable and if there is anything

12/11 - 19/11

No meetings, adjustment to 2.1 and we will be annotating images. GG will organize CVAT organization

4/11 - 11/11

We will discuss 1c, 1d for how many items and how to annotate

DG will have images ready to be annotated by next week

CVAT and VOC format will be used. Which cameras were decided

28/10 - 3/11

Google meets talking about 1a, b, c and d

1a will be decided first, finding research and posted on Kanban board by Thursday.

1.b, 1.c, 1.d are able to follow from which models to use

DG comment:

1b) An initial inspection showed that all cameras (broadcasts) at dusk and in darkness have very poor quality, which will not allow for determining vehicle types. At best, only the total number of vehicles can be counted.

The camera for the cable-stayed bridge near the Islande Hotel is too far away and low in quality.

The camera for the Stone Bridge is much better, even in low light.

Solution: Collect data only for day time

20/10 - 27/10

Proposal Final Draft done

To discuss : Given that the goal of this project is to determine the overall congestion of the bridge, there's no need at this stage to detail vehicle types. We will only use generalized classes V, C, and S, without subgroups. However, we need these generalized types so that, in the future, this data can be analyzed to identify which of these major classes has the most impact on congestion (though this topic is beyond the scope of this project).

Additionally, we are excluding objects such as humans, scooters, and motorcycles from the study, as these objects do not significantly impact the overall picture of congestion.

Here adjusted table with

V

C

S

Talk with Pavlyuk to make sure proposal viability along with recommendations

Draft proposal made

10/10 - 20/10

Google meets for deciding computer vision for identifying cars

Discussions for what to focus

Group formed with topic chosen, communication with whatsapp

