

# Truck Detective Project Meeting

## MINUTES

Meeting date: 02/05/2021 | Meeting location: Zoom

Meeting called by Ben Ruelas

Type of meeting Team Meeting

Note taker Minh Nguyen

Attendees:

- Ben Ruelas
- Dorian Dhamo
- Hy Dang
- Minh Nguyen
- Trang Dao

### AGENDA TOPICS

- Dorian updated us on changes he made to the Riogrande website
  - Added correct links to meeting minutes and other documentation
- Trang made many changes to the project during winter break. We all talked about what she did. She gave a deep demo on everything she did. (Below is a list of all the changes)

|   |
|---|
| Pull new truck dataset  |
| Label dataset   |
| Augment and create 2 final folders (images and masks) for dataset     |
| Convert baseline model to model run on truck dataset (on GPU)         |
| Modify code to achieve better prediction and run model for 50 epoches |
| Write code to pull satellite images with their lon/lat                |
| Create test dataset with lon/lat                                      |
| Write code to run model on test set and save output to .csv file      |
| Research about reducing false positive prediction to our model        |
| Research instance segmentation, Mask-RCNN on Detectron2               |
| Pull new truck dataset with lon/lat and classify images with trucks.  |

Learn BigQuery

Create dataset with lon/lat and label dataset

Write code to run instance segmentation model on new dataset and save result to .csv file

Illustrate the result in BigQuery

Convert dataset and model using COCO format

Write code to evaluate mask-rcnn model

Write code to save satellite images to Google Colab, then upload the images to Google Cloud Storage

Write code to load images from Google Cloud Storage

Download satellite images for 1 area in DFW and run prediction. Output to .csv file and show result on BigQuery