

TRUCK DETECTION TASKS					
TASK	Description	Points	Estimated Time	Assigned to	Problems/status
<b>FALL</b>					
Create github repo	Set up repo for jupyter notebooks	1	< 1 hour	Hy Dang	DONE
Research helper technology	Look into scripts, small utility applications (Bulk satellite image downloader), image "segmenter" and other helper tools that will make development easier.	3	1 hour	Hy Dang	DONE
Get images from mapbox	Set up mapbox functionality	3	8+	Minh	DONE
Create Dataset	Need a centralized data set to pull from. Store in google drive folder	3	~4	Hy and Minh	DONE
Label images	Hand label images	5	10 sec per image ~5hrs per person	ALL	DONE
Research Data Model	Find best model to use for imag segmentation	3	~4	Ben, Trang	DONE
Create Baseline	Pytorch Model of the researched data model - UNET	3	~4	Hy Dang	DONE
Image Processing	Map image into same dimensions	3	~4	Minh	DONE
Train Model	Upload weights to google drive	2	~4	Trang	DONE
Document Work	Everyone will fill out a google document per task to infrom team on what they did and where they are at with the work	1	~1	ALL	DONE
Create Presentation IAB		1	1	Ben	DONE
Present Project		1	4 min	Ben	DONE
<b>WINTER BREAK</b>					
Grow dataset to around 50-100 truck images	Pick images with trucks from MapBoxAPI	4	20	ALL	DONE
Augment Dataset, grow number of truck images to around 3-500	Scale up the dataset	3	5	Ben	DONE
Transition baseline to truck dataset		3	5	Trang, Ben, Dorian	DONE
Train model on truck dataset	Train model with truck dataset	2	10	Trang	DONE
Set up meeting with Greg to clarify project outcomes.		3	2	Ben	DONE
Researching solving problem with instance segmentation	Researching solving problem	5	10	Trang, Hy	DONE
Transition to Detectron2	Solving instance segmentation problem	5	10	Trang, Hy	DONE
<b>SPRING</b>					
<b>TRUCK DETECTION PROJECT</b>					
Researching Engineering Problem	Make the Notebook well-engineering	5	5	Hy	DONE
Meeting to discuss about Engineering problem	Raise topic	3	2	ALL	DONE
<b>Python Script Transition</b>					
Convert getting images	Convert getting images notebook to python script	3	2	Hy	DONE
Setup File for training model	Setup file to train the model	3	3	Ben	DONE
Setup Requirements System	Setup versions/check versions	3	4	Hy	DONE
Setup Predict Model	Predicting file script	5	5	Hy	DONE
Setup Training Model	Training file script	4	5	Hy	DONE
Batching prediction	Predicting multiple images	4	3	Hy	DONE
Divided Work Solution	Storaging problem solver	4	7	Hy	DONE
Testing	Testing	4	5	Hy	DONE
Google Cloud Platform	Create VM	4	5	Dorian	DONE
Implement the code on VM		4	6	Dorian	DONE
Document the codes	Implement pydoc	3	3	Ben	DONE
Final Presentation				ALL	DONE
<b>SALES PREDICTION PROJECT</b>					
Research Dataset		4	4	Minh, Trang	DONE
Research Model		5	3	Minh, Trang	DONE

Make the code run with FastAI		4	5	Minh, Trang	<b>DONE</b>
Preprocessing the dataset		6	6	Minh, Trang	<b>DONE</b>