Truck Detective Project Meeting |MINUTES

Meeting date: *09/22/2020* | Meeting location: *Zoom*

Meeting called by	Ben Ruelas	Attendees:
		- Ben Ruelas
Type of meeting	Client Meeting + Team Meeting	- Hy Dang
		- Trang Dao
		- Minh Nguyen
Note taker	Dorian Dhamo	- Dorian Dhamo
		- Dr. Wei
		- Greg Adams

AGENDA TOPICS

- **Contents**
    - Fort Capital acquires properties though different ways (mixed), mainly though cold calls. Look at an interesting building, do a little research and give a call to the person that owns it.
    - Current strategy is focused on class B buildings (not the fancy looking ones but the big warehouse looking buildings).
    - Competitors, same as Fort Capital, main purpose is to connect their investors with the building owner that is trying to sell his building, whoever is the company that succeeds in connecting the two get the transaction fees. Fort Capital main revenue stream comes from the transaction fees.
    - Another main focus is to operate the buildings, make the tenants happy rather than just treated as a one-time transaction fee.
    - Ben (Team Lead) asked if the project is going to be something that will be starting from scratch or is there some groundwork already laid down for use.
    - According to Greg it is a new project that has not been introduced before. The project is mainly focused on machine learning and image segmentation on satellite images.
    - Main resource is going to be Google CoLab.
    - How is going to be benefiting from this project?
    - The acquisition people are going to be the main people looking at the created maps from this project to and decide which building to look at and the interest in that building or tweak the data a little and look at a different angel for another way to make a profit.

- Image segmentation is going to be the main focus on this project, the rest are open goals.
- Deliverables: Google CoLab with the training, and model needed for the image segmentation, generate you own training a validation test sets and color them by hand.
- Step one, figure out how to get a whole bunch of images. Step two, figure out how to label them and create the segmentation. Third part, build a model. Forth part, figure out how to tune that model.
- Dr Wei: explaining that the main purpose of all these questions from the TCU senior design team is to be able to turn in a report from the meeting with the client.
- Main reason why the TCU Senior Design team is working on this project is to create better data recourses for all these investors that when they are interested in a commercial real-estate building there are not clear data's, or the information is wrong or not clear.
- Be able to clarify industrial areas and where do the big 18-wheel trails go though, in that order investors can invest in commercial real-estate area in between or in the real-estate area.
- Dr. Wei: Find out how to work on a data-oriented project, the steps that need to be taken.
- Hy explained his personal experience where he had to do image segmentation about wounds in the hospital, he was interning in. Similar to what we have to do for the Senior Design Project. The accuracy he got was at around 85%, which is a pretty good result for the data that was given.
- According to Greg, going to a new field, is hard not to get distracted and not know what will actually work best for you and what do you need to stick with. However, you can't learn all of them because there are deadlines that must be meet.
- Just stick with your gut on which one you believe will get the job done the way you want it too.
- Hyperconvergence, to be use towards the end to make parameters as good as they can for the fast Ai.
- That wraps up the first meeting for this project.
- **Work Distribution:**
  - Introduction team members
  - Asking questions about the company (Vision and Document)
  - Technologies: PyTorch, Mapbox API, manually label tools
  - Segmentation Problem + Classification Problem
  - Use Case: The people at warehouse will use the software to classify the properties
  - Vision Document (Hy Dang + Ben Ruelas)