# **Monthly Meeting #8: TA + Group Meeting**

| **Meeting Date:** | Sep 21, 2023 | |
| --- | --- | --- |
| Meeting Time: | 6:15pm ET | |
| Meeting Location: | Virtual | |
| Meeting Type: | Full Group Meeting | |
| Student Team Members: *(check box if in attendance)* | * Rachel * Vanessa * Kashish * Pamela * Elena * Nyah | |
| Other Attendees:  *(e.g., Challenge Advisor, TA)* | Keith Murray, TA | |

**MEETING AGENDA**

1. Going over Project Scope Document with Keith

Phase 1: How we will be using the nuScenes data to identify pedestrians

* Annotated data identifies pedestrians

Next phase, detecting safe vs. unsafe pedestrians

* I.e. standing, lying down labels
* Evaluating level of safety / accuracy of existing tools to identify these risks
* When training DEEP LEARNING MODELS, we usually want to designate a mont, our Motional simulated data model is placed good
* For safe v unsafe model, not enough time.
* Move model with Motional data deadline up a bit
* Access to supercomputer on our campus?
* Debugging, testing and prototyping will happen with a GB of the data, randomly sampled, though all data will live on someonesHBC account
* UPSAMPLE pedestrians
* Or downsample, remove images that don’t have pedestrians, however, dataset becomes smaller
* Make sure dataset is balanced, be careful when training on all data
* Simulated data points should try to be equal
* **Crucial step is trying to get those 200GB of motional data downloaded**
* What should our agenda with Maria be next week, given where we are on the image processing phase??
* Try to solely train models on Python, pandas, etc.
* Keith advises us to use MATLAB sparingly
* Bring data from Mathworks toolbox into Python
* Using ChatGPT to ask Tensorflow
  + “How do I build a CNN on Tensorflow…”
* Asking Chu and Malorie for AWS credits, etc. to help us download the data and

Dates:

Try to have all the results in by the end of November

**MEETING NOTES**

| **Discussion Topic** | **Notes** |
| --- | --- |
| Project Scope and Timeline |  |
| Upcoming Meetings | * 12/5 - BTTAI Final Presentation to the group!! * Meeting with Maria next week |
| Agenda for meeting with Keith | * Debrief 9/14 meeting with Maria * Ask about the dataset - how to download, how to use in Google Colab * Discuss timeline on project scope and deliverables doc, if he hasn’t already given feedback on it by then * Ask how to use 3D data and LIDAR * (if applicable) Ask about tutorials if we have any questions |

**ACTION ITEMS**

| **Task/Assignment** | **Team Member** | **Deadline** |
| --- | --- | --- |
| Tensor Flow tutorials |  |  |
| Downloading the dataset |  |  |
| Send Email or message to Chu or Malorie to get access to some AWS service or similar to gain access to the data,  Cc Keith | Kashish |  |
|  |  |  |