

CAE Research Project Meeting Minutes

4-26-2023

- **Participants**
 - Dr. Farag (PI)
 - Dr. Wu
 - Dr. Ezekiel
 - Drew Rado
 - Emily Himes
 - Kurtis Johnson
 - Samuel Rocco
 - Sky Semone
 - Maria Balega
 - Zaryn Good
 - Lynn Munro
- Meeting started at 11:10 AM
- Unanimously approved minutes for meeting on April 19th, 2023.

Main Points:

- **Progress report**
 - Sam did some research on XGBoost but did not get a chance to code anything.
 - Drew continued writing IoT paper, is waiting on final revisions from Sky
 - Continued with onboarding.
 - Pre-processed new dataset, and will send it to Maria and Zaryn soon.
 - Sky continued onboarding
 - Preprocessed new data with 2 DDOS collections instead of 8.
 - Worked on new revision of paper with Dr. Wu.
 - Kurtis: attended meeting with Maria, and studied openWRT.
 - Zaryn: began running DCNN on new data from last week.
 - Worked on making a guide for onboarding and DCNN
 - Maria: ran ML methods on new dataset: XGBoost 66% and SVM 99%
 - Emily: worked on documentation.
 - Lynn: reviewed Flower and ML methods.
- **Discussion points/Comments**
 - Make sure that new students can fully operate the tools that we've developed.
 - No meeting next week, and meeting times are subject to change and will be decided in the next few weeks.
 - May 5th will be the last day to collect hours for the spring semester.
 - Departing students should record a Zoom guide and send the link to Dr. Farag, and place it on the One-Drive.
- **Tasks:**
 - Sam: Write new implementation of SVM/XGBoost, compare to the results Maria got.
 - Drew: Lead onboarding and keep facilitating the transfer of knowledge as people leave. Finalize writing
 - Sky: post-process data and help onboard. Continue editing paper and meet with Dr. Wu to finalize the paper.
 - Sam, Kurtis, and Drew: come up with a plan to share OpenWRT knowledge since it is very important to this project.
 - Zaryn: Continue working on DCNN guide and process new data
 - Emily: work on paper and the IoT-testbed paper.
 - Maria: process new IoT dataset.
 - Zach: keep working on dataviz and network stuff

Adjournment at 11:50. Next meeting will be TBA, with no meeting next week.