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
  - 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.