CAE Research Project Meeting Minutes

11/2/2021

- Participants
  - Dr. Waleed Farag (PI)
  - Dr. Soundararajan Ezekiel (Co-PI)
  - Dr. Xinwen Wu
  - Maria Balega
  - Zaryn Good
  - Franklin May
  - Ryan Gress
  - Sky Semone
  - Alicia Deak
  - Cassie Lefever
- Meeting started at 3:00 p.m.
- Unanimously approved minutes for meeting on October 28, 2021
- Main Points
  - Discussed:
    - Maria & Cassie
      - Ran two XGBoost algorithms for comparison, achieved 99.99% and 100% accuracies
    - Alicia
      - Looking into the datasets and algorithms to find issues
    - Zaryn & Sky
      - Working on image conversion of KDD and ToN-IoT datasets
      - Created guidelines to use for preprocessing
    - Franklin
      - Working on writing SVM code in Matlab
    - Ryan
      - Ran ToN-IoT using multiclassification, having an issue of getting the same results
  - Tasks:
    - Maria & Cassie
      - Split IoT-23 data into 50% benign and 50% malicious, calculate different errors (MAE, log loss function), continue running SVM
    - Alicia
      - Continue looking into datasets and algorithms
      - Work on report for NSA, work with others to organize folders
    - Zaryn & Sky
      - Work on writing XGBoost algorithm in Matlab
      - Continue working on image conversion and running DCNN
    - Franklin
      - Continue working on writing code for SVM in Matlab

- Ryan
  - Continue running ToN-IoT dataset in XGBoost, fix seed issues
- Adjournment at 3:50 p.m.
- Next meeting will be held on Thursday November 11 at 3:00 p.m.