CAE Research Project Meeting Minutes

11/2/2021

- Participants
  o Dr. Waleed Farag (PI)
  o Dr. Soundararajan Ezekiel (Co-PI)
  o Dr. Xinwen Wu
  o Maria Balega
  o Zaryn Good
  o Franklin May
  o Ryan Gress
  o Sky Semone
  o Alicia Deak
  o Cassie Lefever

- Meeting started at 3:00 p.m.
- Unanimously approved minutes for meeting on October 28, 2021
- Main Points
  o 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
  o 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.