

CAE Research Project Meeting Minutes

9/16/2021

- Participants
 - Dr. Waleed Farag (PI)
 - Dr. Soundararajan Ezekiel (Co-PI)
 - Maria Balega
 - Zaryn Good
 - Franklin May
 - Ryan Gress
 - Cassie Lefever
 - Alicia Deak
 - Eliot Hocke
 - Sky Semone
- Meeting started at 3:10 p.m.
- Unanimously approved minutes for meeting on September 9, 2021
- Main Points
 - Discussed:
 - Maria & Cassie
 - Tried to combine files using MATLAB, still getting memory error
 - Could only combine 6 csv files in python, not reading all classifications from the captures when running XGBoost
 - Alicia
 - Working on synthetic data
 - Zaryn
 - Running the Mirai35 through Alex Net, averaging 80% accuracy, focusing on running each capture at time is giving better results
 - Franklin
 - Ran 20% of KDD dataset in XGBoost and SVM using binary classification, achieved 95% accuracy in XGBoost, achieved 93% accuracy in SVM
 - Ryan
 - Ran a capture from TON-IoT dataset in XGBoost using binary classification, achieved 78% accuracy
 - Working with Zaryn to run DCNN
 - Tasks:
 - Maria & Cassie
 - Work on fixing the memory error, try to take classification label separate and concatenate after that when preprocessing
 - Alicia & Eliot
 - Convert IoT23 csv files to dat or txt file to see if it uses less memory
 - Continue working on synthetic data
 - Zaryn
 - Continue running IoT datasets in DCNN

- Franklin
 - Run full KDD dataset in XGBoost and SVM
- Ryan
 - Run other captures from TON-IoT dataset in XGBoost
 - Reformat the TON-IoT data to run through DCNN
- General tasks:
 - Work on abstracts and continue revising them
 - Franklin is working on DCNN abstract
 - Maria is working on XGBoost abstract
- Adjournment at 4:00 p.m.
- Next meeting will be held on Wednesday September 22 at 3:15 p.m. via Dr. Farag's Zoom room