CAE Research Project Meeting Minutes

10/28/2021

- 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
- Meeting started at 4:00 p.m.
- Unanimously approved minutes for meeting on October 21, 2021
- Main Points
    - Discussed:
        - Maria & Cassie
            - Started writing report
            - Split IoT-23 data into 60% benign and 40% malicious and created synthetic data, achieved accuracies up to 99% with XGBoost and SVM
        - Zaryn & Sky
            - Getting accuracy up to 100% with DCNN
        - Franklin
            - Achieved higher accuracies with SVM than XGBoost using KDD
        - Ryan
            - Running multiclassification of ToN-IoT captures in XGBoost, achieving up to 92% accuracy
    - Tasks:
        - Maria & Cassie
            - Continue working on report, look further into SVM results
            - Run the same dataset into two XGBoost algorithms to verify they are working correctly
        - Alicia
            - Look into the algorithms to compare them and the datasets to try and find issues, create visualizations
        - Zaryn & Sky
            - Work on image conversion of KDD, look further into DCNN results
        - Franklin
            - Continue working on abstract, try running KDD through SVM in Matlab to compare results
        - Ryan
            - Continue working on multiclassification for the ToN-IoT captures

- Adjournment at 5:00 p.m.
- Next meeting will be held on Wednesday November 3 at 3:00 p.m.