

CAE Research Project Meeting Minutes

11/30/2021

- Participants
 - o Dr. Waleed Farag (PI)
 - o Dr. Soundararajan Ezekiel (Co-PI)
 - o Dr. Xinwen Wu
 - o Zaryn Good
 - o Ryan Gress
 - o Cassie Lefever
 - o Maria Balega
 - o Alicia Deak
 - o Franklin May
- Meeting started at 3:00 p.m.
- Unanimously approved minutes for meeting on November 23, 2021
- Main Points
 - o Discussed:
 - Maria & Cassie
 - Added graphs, results, and XGBoost abstract to report
 - Dropped 3 labels from preprocessed IoT23 data, ran XGBoost and achieved accuracies up to 99% with 65/35 split performing best
 - Alicia & Franklin
 - Added graphs and results to report, XGBoost precision seems to rise with 65/35 split with the extra column in the preprocessed data
 - Zaryn
 - Working on updating report
 - Ryan
 - Split ToN-IoT data into 50% malicious and 50% benign, XGBoost accuracies were still low around 50%
 - o Tasks:
 - Maria & Cassie
 - Look further into XGBoost results and why 65/35 split accuracy is higher
 - Add figures and results to report
 - Alicia & Franklin
 - Begin running KDD dataset in SVM, work on fine tuning XGBoost for better results, consider a graph to compare XGBoost and SVM
 - Zaryn
 - Add figures and results to report
 - Convert images for IoT23 dataset
 - Ryan & Alicia
 - Run ToN-IoT in SVM to compare results with published paper and XGBoost
- Adjournment at 4:00 p.m.

- Next meeting will be held on Tuesday December 14 at 3:00 p.m.