CAE Research Project Meeting Minutes

06-28-2023

- Participants
 - Dr. Soundarajan Ezekiel
 - o Dr. Xinwen Wu
 - Jared Giesen
 - Kurtis Johnson
 - o Samuel Rocco
 - o Nathan Metzger
- Meeting started at 11:30 am
- Unanimously approved minutes for meeting on June 18th, 2023

Main Points:

- Progress report
 - o Drew
 - Working on IoT test bed paper
 - o Kurtis
 - Helped Maria with IEEE Access paper
 - Ran XGBoost and SVM on KDD, TON, and IoT23 data sets on Titan for efficiency comparison
 - Ran XGBoost on five datasets testing different parameters on 4080 machine
 - Tested train/test splits, max_depth, and eta (learning rate)
 - Ran SVM on five datasets testing different parameters on 4080 machine
 - Tested train/test splits, C, gamma, and different kernels
 - o Sam
 - Ran TON, KDD, and data captures through tSNE for visualization
 - o Jared
 - Working on getting remote connection into 305 machines
 - Learning DCNN and Matlab from Zaryn's tutorial
 - o Nathan
 - Visualized data sets with k means clustering and PCA

Discussion points

- Finish up respective tasks testing parameters of algorithms and visualizations on all data sets
- Everyone needs to focus on DCNN to quickly preprocess and train all networks on all data sets
- Tasks:
 - Everyone: Learn DCNN by reviewing Zaryn's tutorial
 - Drew: Finalize the IoT paper
 - Kurtis:
 - Finish running SVM on datasets
 - Run XGBoost and SVM on IoT23 dataset
 - o Sam:
 - Run tSNE on the three data sets in Maria's paper
 - o Jared:
 - Set up remote connection to 305 machines
 - Nathan:
 - Reconfigure PCA data visualization

Adjournment at 12:00 pm Next meeting will be held on Wednesday, July 5th at 11:00am