

CAE Research Project Meeting Minutes

05-09-2023

- **Participants**
 - Dr. Waleed Farag (PI)
 - Dr. Soundarajan Ezekiel
 - Dr. Xin-Wen Wu
 - Jitu Nath
 - Niranchana Radha Krishnan
 - Larry Pearlstein
 - Drew Rado
 - Jared Giesen
 - Kurtis Johnson
 - Samuel Rocco
 - Lynn Munro
- Meeting started at 10:00am
- Unanimously approved minutes for meeting on April 26th, 2023

Main Points:

- **Progress report**
 - Kurtis, Sam – Learning the algorithms and how to process the datasets.
 - Drew – Processed the new malicious dataset, reviewed the data and discussed odd results, made visual graphs to display the findings in the data.
- **Discussion points**
 - The data is most likely presenting itself with low accuracy because the IP addresses used in the set are not IP addresses on the network.
 - This shows that XGBoost most likely relies on IP addresses more than SVM when processing data.
 - It would be best to move forward with the project as we have been and recollect the Malicious dataset using legitimate IP addresses on the network.
- **Tasks:**
 - Drew: prepare a new dataset using a pool of known IP addresses on the network and send it to Kurtis for processing
 - Kurtis: process the new dataset and present results

Adjournment at 1:00pm

Next meeting will be held on Friday, May 19th at 9:00am