

CAE Research Project Meeting Minutes

06-06-2023

- **Participants**
 - Dr. Waleed Farag (PI)
 - Dr. Soundarajan Ezekiel
 - Dr. Xinwen Wu
 - Drew Rado
 - Jared Giesen
 - Kurtis Johnson
 - Samuel Rocco
 - Nathan Metzger
- Meeting started at 10:00 am
- Unanimously approved minutes for meeting on May 31st, 2023

Main Points:

- **Progress report**
 - Drew –
 - Working on IoT test bed paper
 - Kurtis –
 - Tried one hot encoding preprocessed data but this produced too much data to be usable
 - Tried changing ratio of Benign to DDoS to Port scan data to 1:1:1 but this did not improve accuracy of XGBoost
 - Sam –
 - No updates, busy with GenCyber preparation
 - Jared –
 - No updates, busy with GenCyber preparation
 - Nathan –
 - No updates, busy with GenCyber preparation
 - Lynn –
 - Left project

Discussion points

- Need to figure out inconsistent performance of XGBoost
- Consider using K-mean clustering to visualize data
- **Tasks:**
 - Drew: Finalize the IoT paper
 - Kurtis: Add Drew's documentation to ARMZTA folder for Jared.
 - Contact Maria for XGBoost help
 - Continue looking into XGBoost parameters
 - Work on K-mean clustering

Adjournment at 10:35am

Next meeting will be held on Monday, June 19th at 9:00am