Zero Trust Research Project (ARMZTA) Meeting Minutes

12-20-2023

Participants

- Dr. Waleed Farag (PI)
- Dr. Soundararajan Ezekiel
- Dr. Xin-Wen Wu
- Jared Giesen
- Micah Sherry
- Nicholas Reid
- Sam Moffat

Meeting started at 12:00 pm

Progress Report

- Sam
  - Has completed on-boarding with HR.
  - Worked on organizing the student effort.
- Jared
  - Busy with another project.
- Micah
  - Ran three additional DCNN architectures. Garnering similar results to the previous trial at around 84% for 15 classifications.
- Justin
  - Still working on troubleshooting XGBoost.
- Nicholas
  - Reading assigned sources regarding machine learning and Kafka.

Discussion Points

- Two posters will be needed for the next scholar's forum.
- Be sure to update Dr. Ezekiel on progress ahead of meetings.
- Collaborative Learning and its role in integration must be explored soon.

Tasks

- Team
  - Implement a static dataset model.
  - Work towards a detection algorithm for live feed data.
- Sam
  - Work with Nicholas in the Kafka implementation to begin feeding and testing algorithms off the live feed data.
- Jared
  - Implement a simulated federated algorithm using Flower on the static model.

- Drew
    - Prepare all current students for handover, especially Micah for the Zeek-Kafka server.
    - Continue to finalize the IoT paper.
- Micah
    - Help with any on boarding for Nicholas and new members.
    - Ensure the Matlab license is generalized for anyone's use.
- Justin
    - Troubleshoot the XGBoost algorithm for the static dataset and begin developing the SVM algorithm with the help of Maria, etc.
- Nicholas
    - Work with Sam on running algorithms off the Kafka data.

Adjournment at 12:55 pm

Next meeting will be held on Tuesday Jan. 2nd at 12:00 pm