

# CAE Research Project Meeting Minutes

8/16/2021

- Participants
  - Dr. Waleed Farag (PI)
  - Dr. Soundararajan Ezekiel (Co-PI)
  - Maria Balega
  - Zaryn Good
  - Alicia Deak
  - Franklin May
  - Ryan Gress
- Meeting started at 12:00 p.m.
- Unanimously approved minutes for meeting on August 10, 2021
- Main Points
  - Discussed:
    - Maria
      - Looking into Deep Belief Network (DBN), working on coding the algorithm
      - Found a paper using IoT23 dataset that we can compare our results with
    - Alicia
      - Working on creating synthetic data
    - Zaryn
      - Working on image conversion, has the code running and samples, need to run on titan since it takes hours
    - Franklin
      - Looking into DGCNN, results are not as good as DBN, not going to focus on this algorithm
  - Tasks:
    - Maria
      - Continue working on DBN
      - Work on preprocessing IoT23 data similar to the published paper to compare results
    - Alicia
      - Continue working on creating synthetic data
    - Ryan
      - Look into 4 other IoT datasets from the published IoT23 paper
    - Franklin
      - Working on averaging IoT23 datasets using XGBoost, SVM, etc.
      - Run IoT datasets from published paper using XGBoost, SVM, etc.
    - Zaryn
      - Continue working on image conversion using IoT23 data
      - Work with Jackson to run DCNN on titan
- Adjournment at 1 p.m.

- Next meeting will be held on Monday August 23 at 11:30 a.m. via Dr. Farag's Zoom room