

CPRE 491 - Weekly Report #1

Date: 10/1/2021

Team: 08

Project Title: Extracting Black-box Deep Learning Models via
Software-based Power Consumption Measurements

Members:

- Austen Van Brogen
- Michael Mazur
- Long Ly
- David Swarts
- Danielle Rodriguez
- Noah George

What we've accomplished in the past week/what we've been researching:

- Austen Van Brogen: Worked on requirements document, kept meeting minutes
- Michael Mazur - read through research paper and reviewing requirements doc
- Long Ly - Created problem statement and requirements for project
- David Swarts : Read through papers from Professor Gulmezoglu. Worked on requirements document. Research basics of neural networks.
- Danielle Rodriguez: Read through papers from Professor Gulmezoglu to help build requirements.
- Noah George: Worked on project requirements; decided to be on data collection team

What we're planning to do in the coming week:

- Austen Van Brogen: Get a presentation set up. Do a presentation in class, Create project plan
- Long Ly - Research different power consumption methods, tensor flow library and pulling key values from power consumption measurements
- Michael Mazur - Start to look into data collection for the neural network
- David Swarts - Continue researching how side channel attacks work, how data can be collected from power measurements, and how you define a neural network.
- Danielle Rodriguez - Help team develop and present project plan and do individual research on neural networks.
- Noah George: Start looking at data collection, developing and presenting project plan

Issues we had in the previous week:

- Austen Van Brogen: Difficulty understanding specifics of the project, Time to work on presentation was pretty tight,
- Long Ly - Issues with time and scheduling. Difficulty understanding scope and requirements of project. Low effort research dedicated to project
- Michael Mazur - issues with fully understanding the research papers for the project and working in this class with other classes.
- David Swarts: Difficulty with balancing this class with other responsibilities. Understanding the scope of the project, what needs to get done, where to go for more information.
- Danielle Rodriguez: issues with scheduling to complete the presentation on top of the requirements assignment
- Noah George: Scheduling time we can all meet to complete additional presentation