

## **CPRE 491 - Weekly Report #3**

Date: 10/15/2021

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: Created the design document and the lightning talk for it
- Michael Mazur - Got access to remote GPU, worked on the lightning talk for the design document.
- Long Ly - worked on design document. Research neural networks algorithms
- David Swarts : Worked on Design document and it's lightning talk. Learned about lockers and lab access in Coover.
- Danielle Rodriguez: worked on design document
- Noah George: Design section of the design document and lightning talk. Signing into the GPU machine and reading data from the RAPL interface

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

- Austen Van Brogen: Continue to look into machine learning algorithms

- Michael Mazur - Become more familiar with the remote GPU server. Work on building Scrum Board.
- Long Ly - Do further research on power consumption and tensorflow
- David Swarts : Research how to get access to power consumption measurements of a GPU.
- Danielle Rodriguez: continue to research machine learning
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- Noah George: Continue to look into data collection of the RAPL and into how to collect similar power Data from the GPU

**Issues we had in the previous week:**

- Austen Van Brogen: It was difficult to get everyone to meet at one time
- Michael Mazur - Working in this class with other classes/tests. Learning about how the server works.
- Long Ly - Time management and work overload
- David Swarts : Communication.
- Danielle Rodriguez: managing time for meetings with other classes (had 2 exams and 2 labs)
- Noah George: People are busy with midterms and it is hard to meet with everyone at once