

CPRE 491 - Weekly Report #5

Date: 10/28/2021

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: Filled out the weekly report
- Michael Mazur - filled out the weekly report. Watched a neural network tutorial video.
- Long Ly - Further research into neural networks and tensorflow. Brainstorm more testing/requirement ideas
- David Swarts : Watched videos about neural network architecture.
- Danielle Rodriguez: watching youtube videos about neural network concepts: layers, parameters weights, edge detection, etc.
- Noah George: Found nvidia-smi (NVIDIA System Management Interface program). This does provide Some power information, so we will have to see how we can use this program to Collect the data we want

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

- Austen Van Brogen: Work on the next assignment and learn more about machine learning
- Michael Mazur - learn more about neural networks via Youtube.
- Long Ly - Figure out the dataset given by power measurements. Find out more about training/learning process of tensorflow graph like dataset
- David Swarts :.Learn more about how python programming
- Danielle Rodriguez: continue researching and try out a simple network tutorial in python
- Noah George: Explore the nvidia-smi

Issues we had in the previous week:

- Austen Van Brogen: Since there wasn't a lot of work to do this week there wasn't a lot to talk about in the report. Additionally, not all of us were able to make it to our weekly meeting.
- Michael Mazur - none with this class
- Long Ly - Not many outside of the normal time constraints and schedule conflicts
- David Swarts : None.
- Danielle Rodriguez: N/A
- Noah George: There are not a whole lot of people who have tried to do this before, so googling about Has not yielded many useful results