Abstract

Every year, students like myself, who are exploring computational-heavy research may be at a disadvantage as their home computer may not be suitable enough or may take a lot of time to produce a result set. In this research, we are investigating the viability and requirements needed to utilise school computers to create a PAAS that can serve the needs for undergraduate researchers. A computer cluster utilising 25 school computers will be created and benchmarked for performance while also creating a platform for students to be able to submit multiple neural network models to train them concurrently by utilising distributed TensorFlow. (When results are finished, briefly state findings of paper)