Technology used

Python with CUDA or java

CUDA toolkit

Tensor flow or keras at the backend for supporting complex numerical operation for the deep neural net

Numbas and numpy library

Proposed Solution

The current project is using gpu’s to run the deeplearning model. Deep Learning is a new area of Machine Learning research, which has been introduced with the objective of moving Machine Learning closer to one of its original goals: Artificial Intelligence. The project will be about exploring various technologies to change the numerical precision thus evaluating the precision and recall parameters for various types of data such as text, image etc. Significant amount of data would be trained using gpu’s starting from the one’s present in the local machine then testing the data on the testbed such as chameleon. Thus the project is to test whether running the test at half precsion really provides the same level of accuracy as that of the full precision datatype. If the full precision datatypes provides more accuracy as compared to the half precision datatype then it would be contradictory according tto todays theory