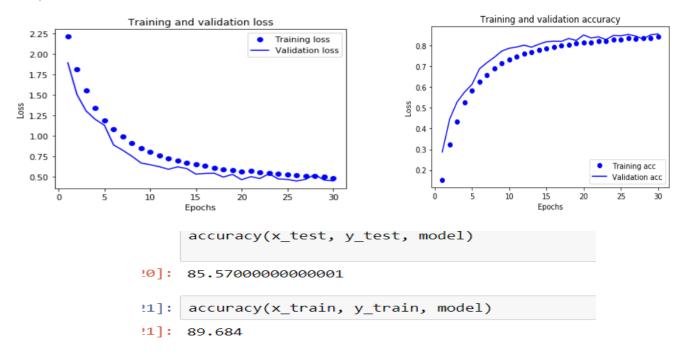
Part 1: Convolutional Neural Network

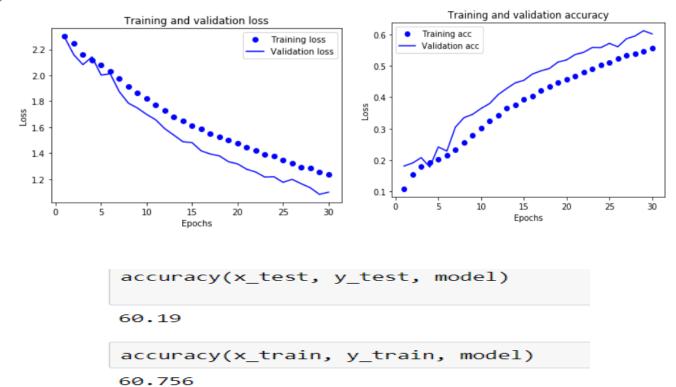
Dataset – CIFAR-10

Our task for the assignment was to do a comparative study of the different types of Optimizers used in improvising the performance of a ML Algorithm. We have applied a handful of optimizers and validated our choice as below:

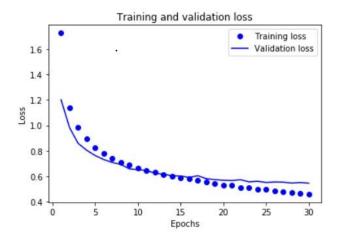
1) ADADELTA



2) SGD

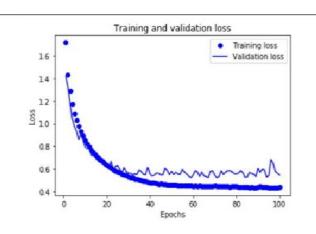


3) ADAGRAD



Test accuracy: 0.8153

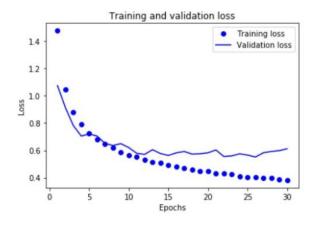
4) RMSPROP



Test loss: 0.546309899520874

Test accuracy: 0.8221

5) ADAM



Epoch 30/30 1563/1563 [======] - 25 Saved trained model at /home/ubuntu/mynotebooks 10000/10000 [======] -

Test loss: 0.6117798939466477

Test accuracy: 0.812