Task 1

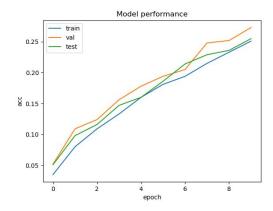
Usage

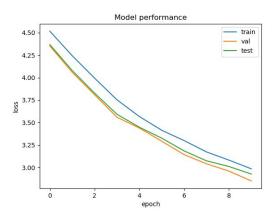
• Inside "part1" folder, with "imagenet_first2500.zip" in, run "bash extract.sh"

Task 2 Usage

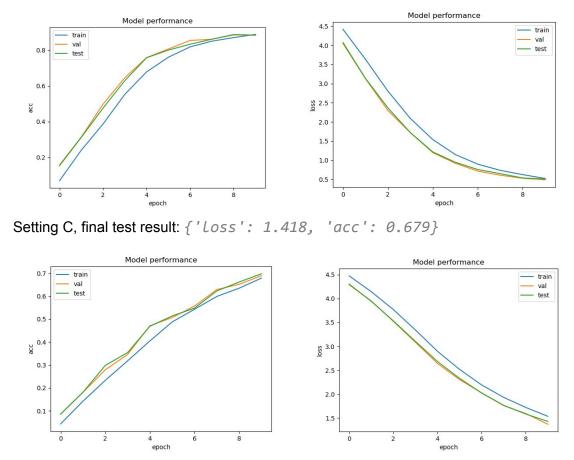
- Inside "part2" folder, with "flowers102stuff.zip" in it, run "bash extract.sh"
- Run "python main.py"
- Run "python visual.py"
- train a deep neural network in three different modes:
 - A once without loading weights and training all layers.
 - B once with loading model weights before training and training all layers.
 - C once with loading model weights before training and training only the last two trainable layers (note: for quite some problems, the approach B is better than C)
- for the homework report at least the following:
 - for each of the 3 settings curves of training loss, validation loss and validation accuracy as a function of epochs (for the best setting you found)
 - for each of the 3 settings the test accuracy of the best model
 - observe differences between the validation and the test accuracy of these models

Setting A, final test result: { 'loss': 2.901, 'acc': 0.251}





Setting B, final test result: { 'Loss': 0.522, 'acc': 0.881}



For generally, in order of improving results, it is A < C < B. For setting A, the validation accuracy is significantly better than test accuracy, but for C and B, the train, validation and test accuracy are very similar.