Theory and Practice of Deep Learning Keshigeyan Chandrasegaran – 1002327 Coding Homework Week 3 Report

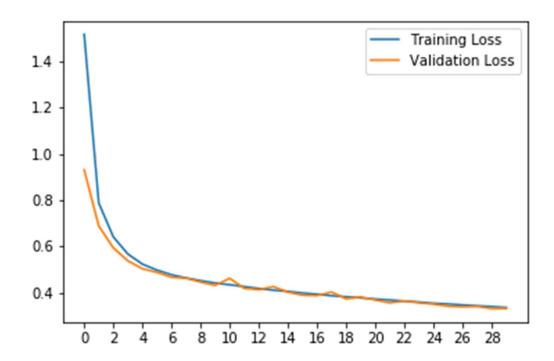
The entire problem was solved using the following setup and hyper-parameters:

Train/ test split = 80%/20%

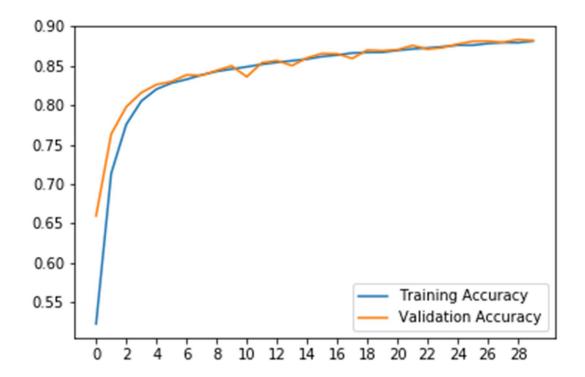
batch_size = 64 (for all train, validation and test sets)

epochs = 30

1. The following graph shows the training loss and validation loss over epochs



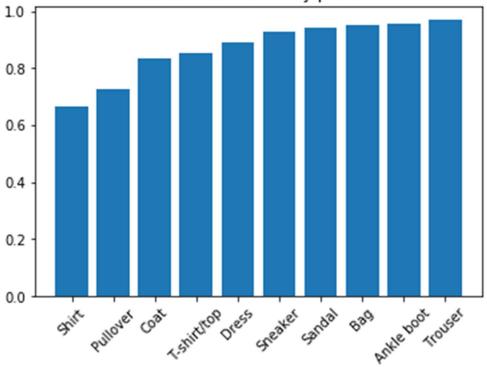
2. The following graph shows the training accuracy and validation accuracy over epochs



- 3. The best accuracy on the test set = 0.871
- 4. The following bar chart shows the ranking of classes by their accuracies in ascending order. The most difficult class to predict is **SHIRT.** The numerical values of accuracy are shown in the table below as well.

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Class	Accuracy
Shirt	0.66750
Pullover	0.72525
Coat	0.83481
T-shirt /Top	0.85126
Dress	0.88803
Sneaker	0.92924
Sandal	0.94349
Bag	0.94891
Ankle boot	0.95548
Trouser	0.96964