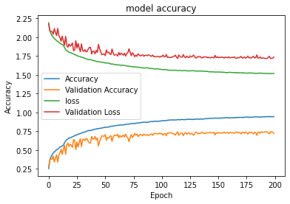
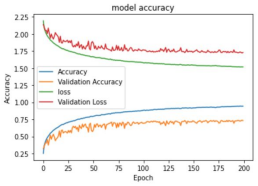
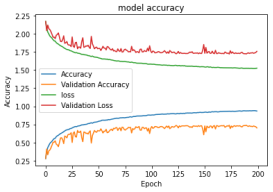
Modification 2

Batch Size 128

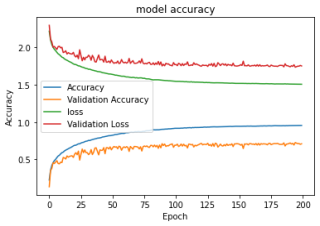
Optimizer=SGD, Epochs=200, Learning_Rate=0.005, Batch_Size=128, Momentum=0.9 Dropout=0.4
Run1
Epoch 200/200 50000/50000 [==============================] - 16s 318us/sample - loss: 1.5186 - accuracy: 0.9424 - val_loss: 1.7372 - val_accuracy: 0.7221 
Run2
Epoch 200/200 50000/50000 [==============================] - 15s 308us/sample - loss: 1.5181 - accuracy: 0.9427 - val_loss: 1.7285 - val_accuracy: 0.7315 
Run3
Epoch 200/200 50000/50000 [==============================] - 15s 303us/sample - loss: 1.5260 - accuracy: 0.9349 - val_loss: 1.7585 - val_accuracy: 0.7018 

Batch Size 256

Optimizer=SGD, Epochs=200, Learning_Rate=0.005, Batch_Size=256, Momentum=0.9 Dropout=0.4

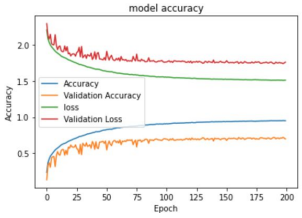
Run1

```
Epoch 200/200
50000/50000 [==============================] - 11s 219us/sample - loss:
  1.5061 - accuracy: 0.9551 - val_loss: 1.7506 - val_accuracy: 0.7089
```



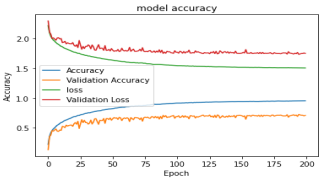
Run2

```
Epoch 200/200
50000/50000 [==============================] - 11s 228us/sample - loss:
  1.5113 - accuracy: 0.9498 - val_loss: 1.7606 - val_accuracy: 0.6987
```

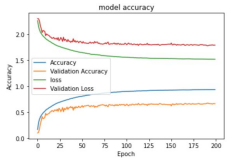
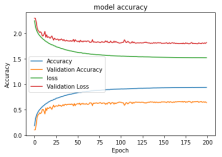
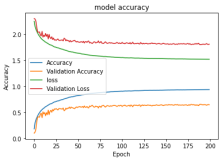


Run3

```
Epoch 200/200
50000/50000 [==============================] - 11s 222us/sample - loss:
  1.5100 - accuracy: 0.9525 - val_loss: 1.7589 - val_accuracy: 0.7002
```

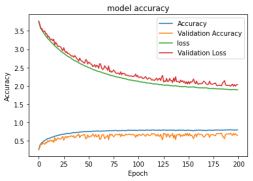
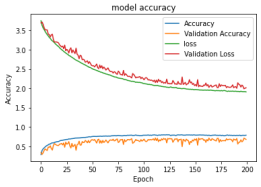
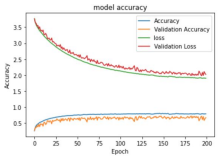


Batch Size 512

Optimizer=SGD, Epochs=200, Learning_Rate=0.005, Batch_Size=512, Momentum=0.9 Dropout=0.4
Run1
Epoch 200/200 50000/50000 [==============================] - 9s 177us/sample - loss: 1.5222 - accuracy: 0.9391 - val_loss: 1.7937 - val_accuracy: 0.6654 
Run2
Epoch 200/200 50000/50000 [==============================] - 9s 174us/sample - loss: 1.5224 - accuracy: 0.9388 - val_loss: 1.8213 - val_accuracy: 0.6377 
Run3
Epoch 200/200 50000/50000 [==============================] - 9s 172us/sample - loss: 1.5222 - accuracy: 0.9392 - val_loss: 1.8122 - val_accuracy: 0.6477 

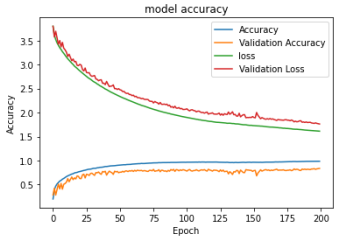
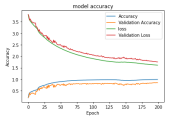
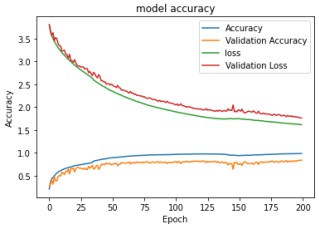
Modification 3

Batch Size 128

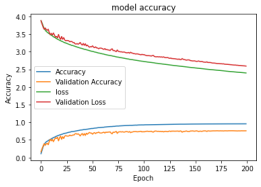
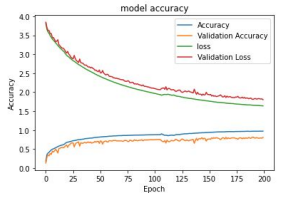
Optimizer=SGD, Epochs=200, Learning_Rate=0.005, Batch_Size=128, Momentum=0.9 Dropout=0.4
Run1
Epoch 200/200 50000/50000 [==============================] - 19s 376us/sample - loss: 1.8900 - accuracy: 0.8030 - val_loss: 2.0398 - val_accuracy: 0.6517 
Run2
Epoch 200/200 50000/50000 [==============================] - 17s 350us/sample - loss: 1.9082 - accuracy: 0.7876 - val_loss: 2.0144 - val_accuracy: 0.6800 
Run3
Epoch 200/200 50000/50000 [==============================] - 17s 334us/sample - loss: 1.9058 - accuracy: 0.7895 - val_loss: 2.0225 - val_accuracy: 0.6720 

Modification 4

5x5 Kernel

Optimizer=SGD, Epochs=200, Learning_Rate=0.005, Batch_Size=128, Momentum=0.9
Run1
Epoch 200/200 50000/50000 [==============================] - 20s 394us/sample - loss: 1.6122 - accuracy: 0.9853 - val_loss: 1.7615 - val_accuracy: 0.8366 **And best** 
Run2
Epoch 200/200 50000/50000 [==============================] - 20s 397us/sample - loss: 1.6120 - accuracy: 0.9867 - val_loss: 1.7514 - val_accuracy: 0.8473 **And best** 
Run3
Epoch 200/200 50000/50000 [==============================] - 20s 394us/sample - loss: 1.6184 - accuracy: 0.9859 - val_loss: 1.7642 - val_accuracy: 0.8395 **And best** 

7x7 Kernel

Optimizer=SGD, Epochs=200, Learning_Rate=0.005, Batch_Size=128, Momentum=0.9
Run1
Epoch 200/200 50000/50000 [==============================] - 20s 394us/sample - loss: 2.3981 - accuracy: 0.9555 - val_loss: 2.5932 - val_accuracy: 0.7594 
Run2
Epoch 200/200 50000/50000 [==============================] - 20s 401us/sample - loss: 1.6401 - accuracy: 0.9748 - val_loss: 1.8026 - val_accuracy: 0.8095 
Run3
Epoch 200/200 **50000/50000 [==============================] - 19s 379us/sample - loss: 1.6189 - accuracy: 0.8420 - val_loss: 1.7298 - val_accuracy: 0.7306**