Report I have tried with different optimizer

I have used adam optimizer with learning_rate = 0.001

Train_dataset = 40000 Val_dataset = 10000 Test_dataset = 10000 (without label)

```
Train on 40000 samples, validate on 10000 samples

Epoch 1/6
40000/40000 [==========] - 24s 612us/step - loss: 1.2514 - acc: 0.5568 - val_loss: 1.0813 - val_acc: 0.6289

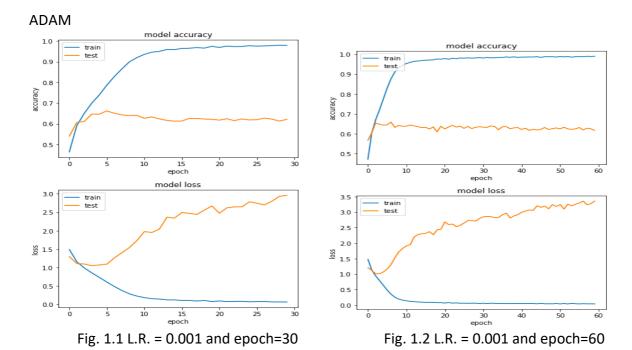
Epoch 2/6
40000/40000 [========] - 18s 441us/step - loss: 0.9118 - acc: 0.6821 - val_loss: 0.9155 - val_acc: 0.6883

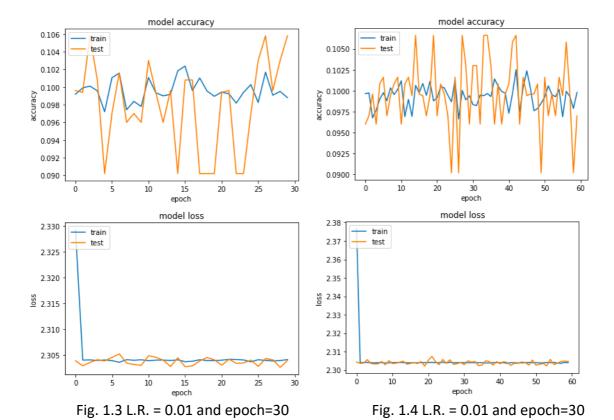
Epoch 3/6
40000/40000 [===========] - 18s 441us/step - loss: 0.7529 - acc: 0.7362 - val_loss: 0.8822 - val_acc: 0.7036

Epoch 4/6
40000/40000 [============] - 18s 439us/step - loss: 0.6102 - acc: 0.7856 - val_loss: 0.8616 - val_acc: 0.7191

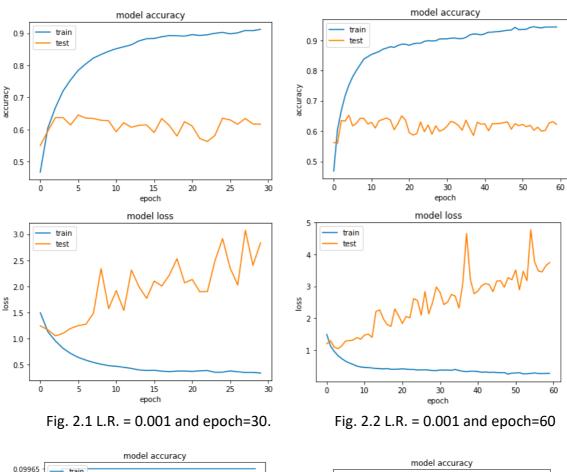
Epoch 5/6
40000/40000 [=============] - 17s 437us/step - loss: 0.4812 - acc: 0.8306 - val_loss: 0.8231 - val_acc: 0.7397

Epoch 6/6
40000/40000 [==============] - 18s 439us/step - loss: 0.3599 - acc: 0.8743 - val_loss: 0.8396 - val_acc: 0.7456
```





RMS



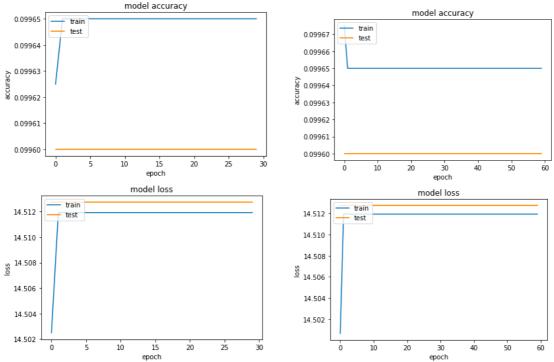
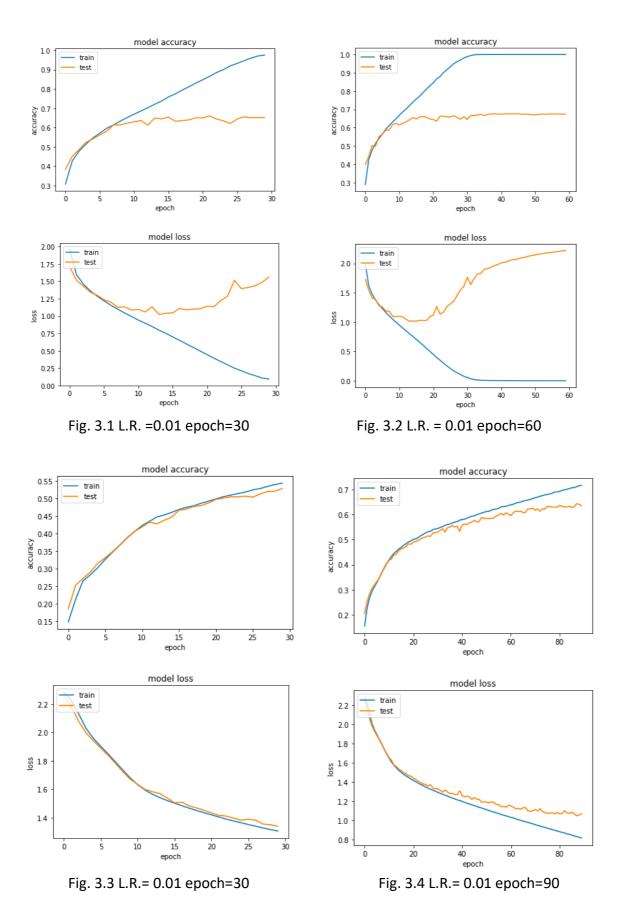


Fig. 2.3 L.R. = 0.01 and epoch = 30

Fig. 2.4 L.R. = 0.01 and epoch=60



ADAGRADE

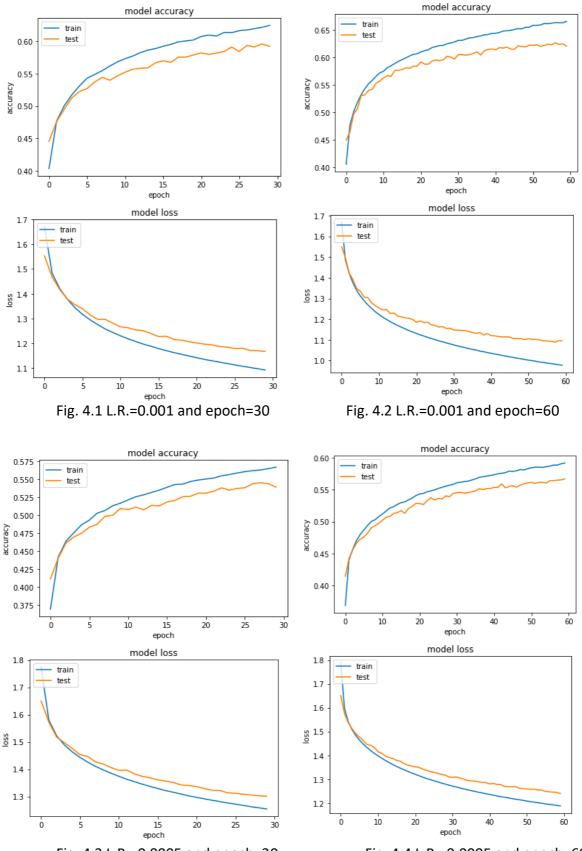


Fig. 4.3 L.R.=0.0005 and epoch=30 Fig. 4.4 L.R.=0.0005 and epoch=60