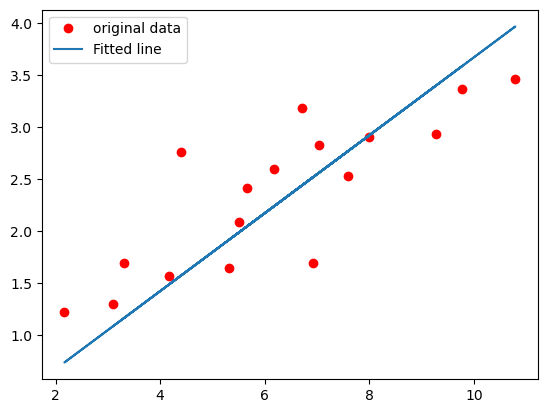
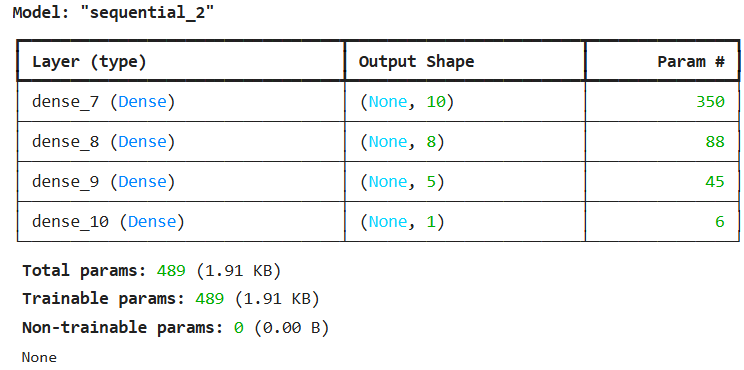
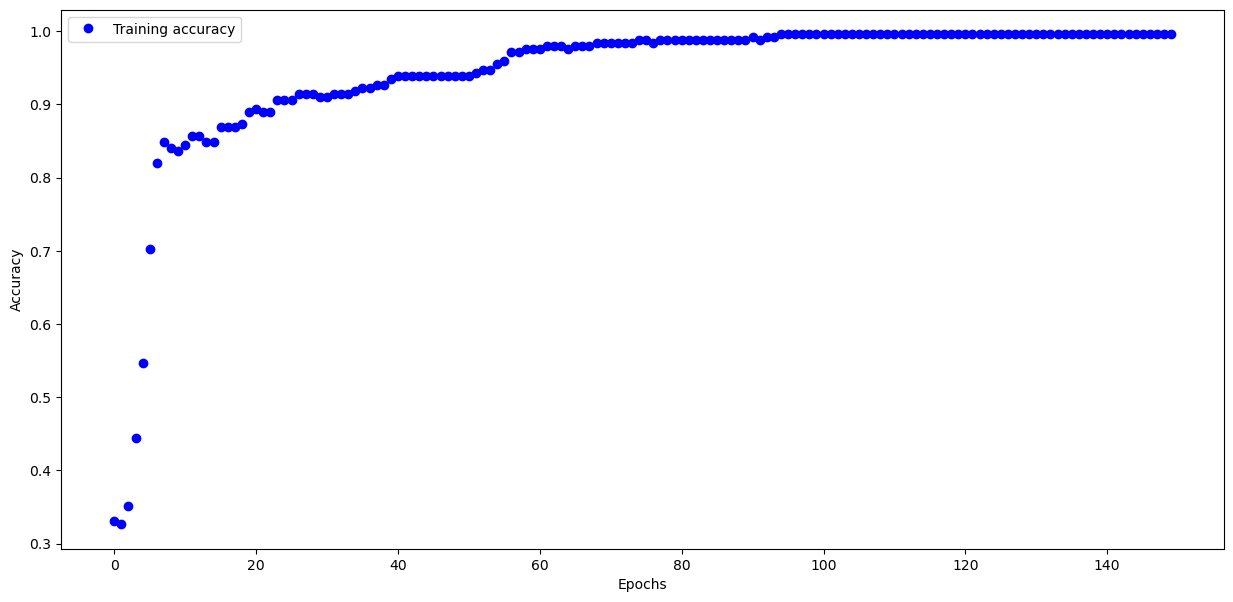
LAB Logbook

Lab 1



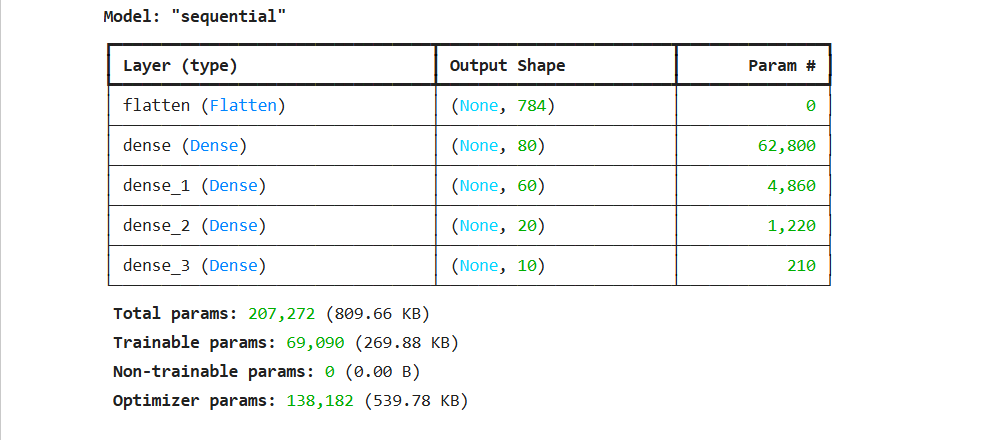
Lab 2

0.96



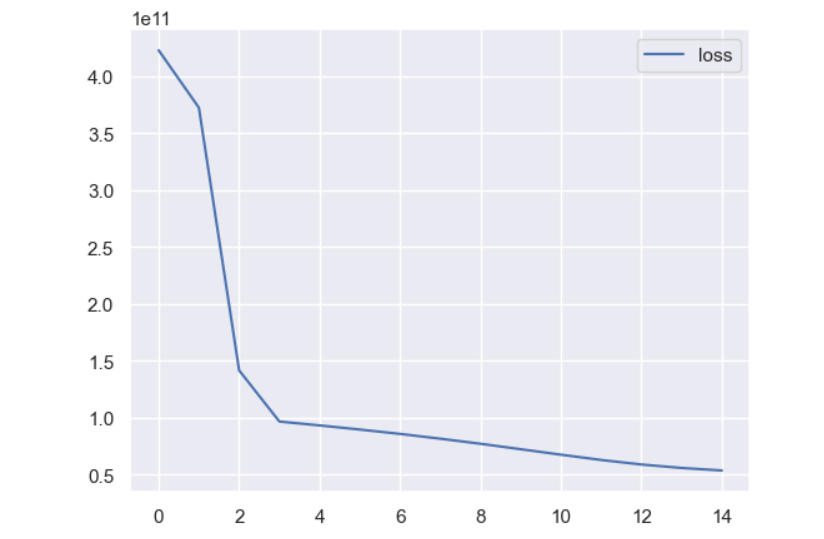
Lab 3

Test accuracy: 0.8855999708175659

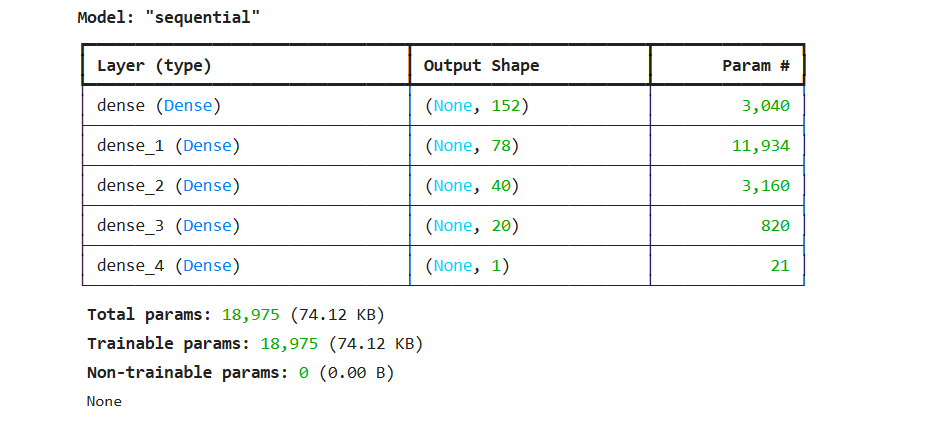


Lab 4

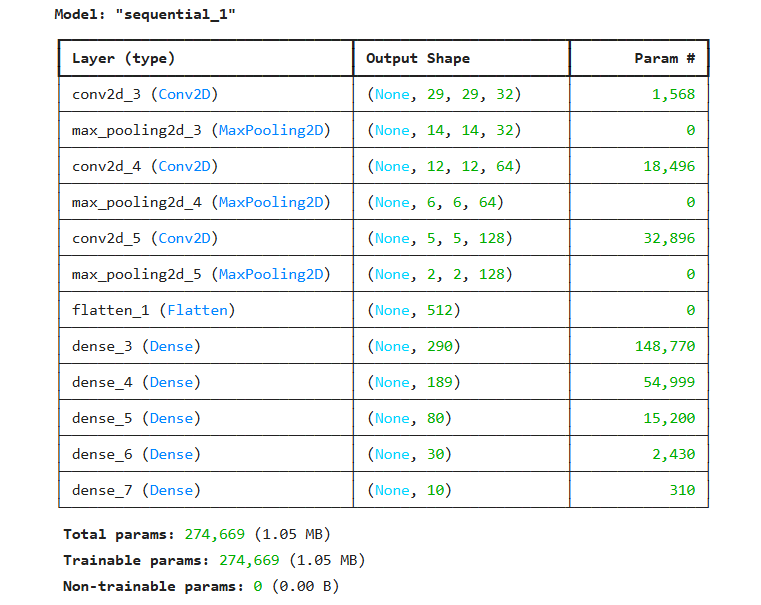
Model’s loss after every epoch

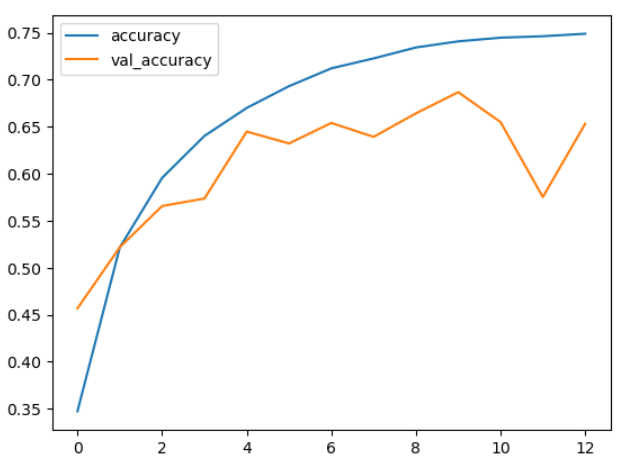


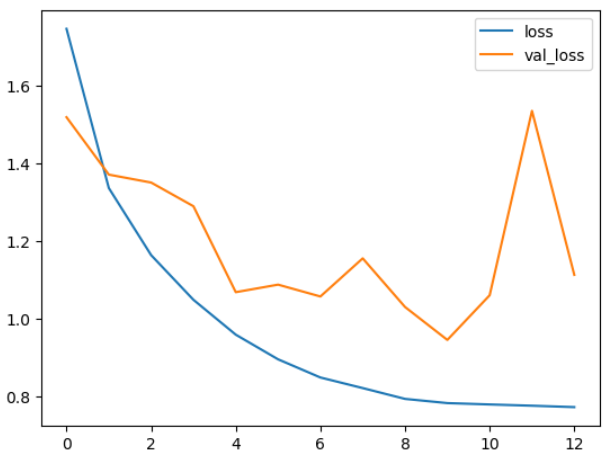
Model summary



Lab 5

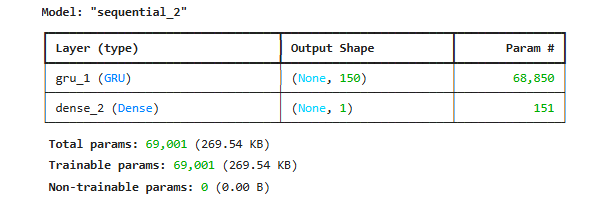




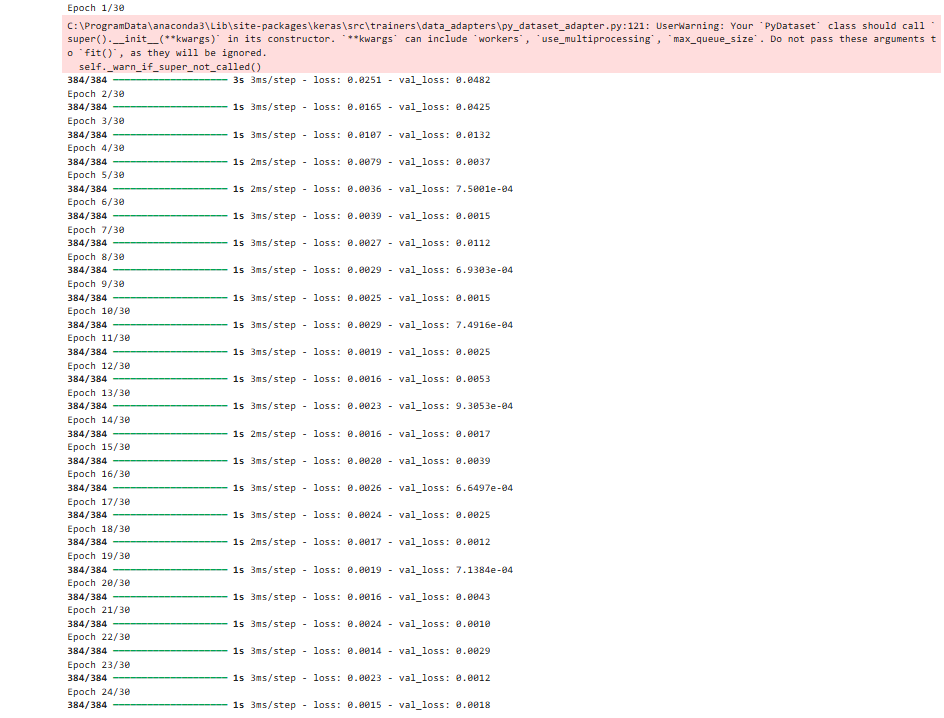


Lab 6

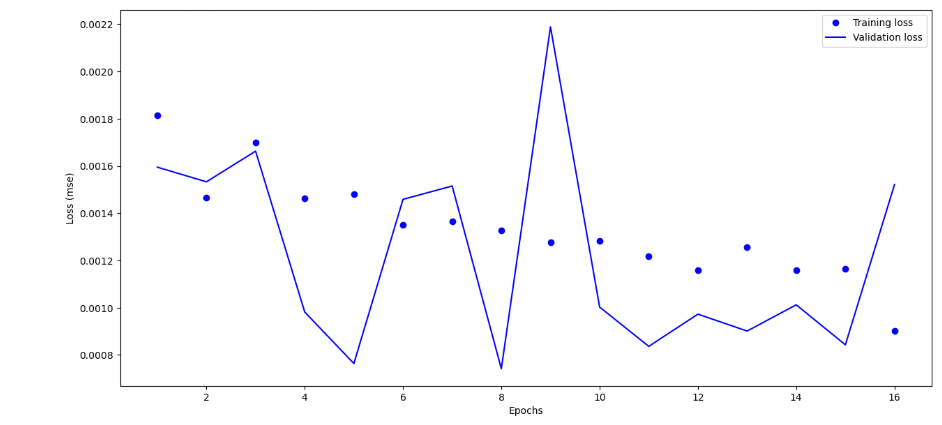
*\*Plot of the 2nd model's summary*



*\*Copy of early-stop code and history\_2 fit-training-process*



*\*Plot of validation and test loss of history\_2*

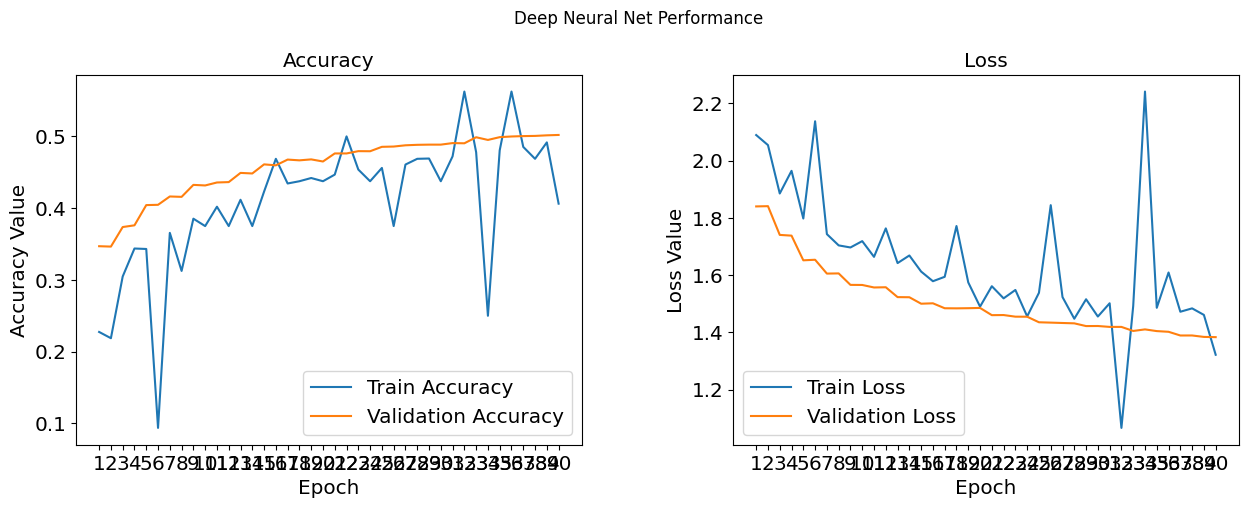
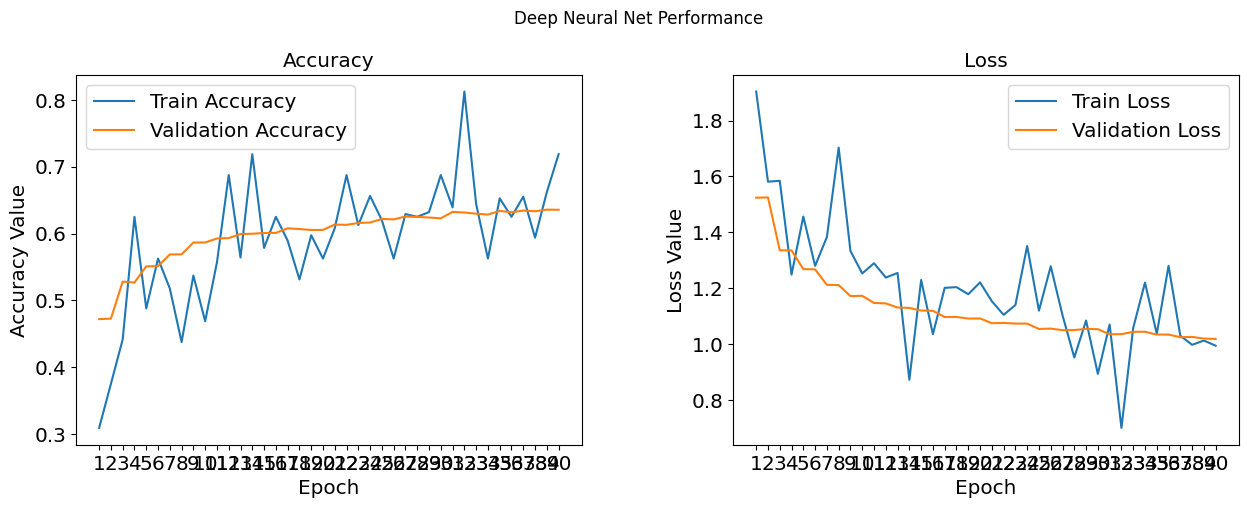


*\*The optimal number of epochs for training model*

Ans : 4

Lab 7

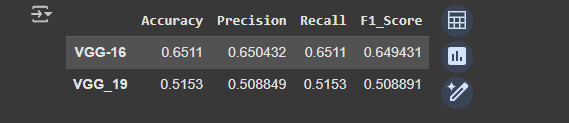
#Graphs for Accuracy and Loss Function for VGG16 and VGG19 (4 graphs in total)



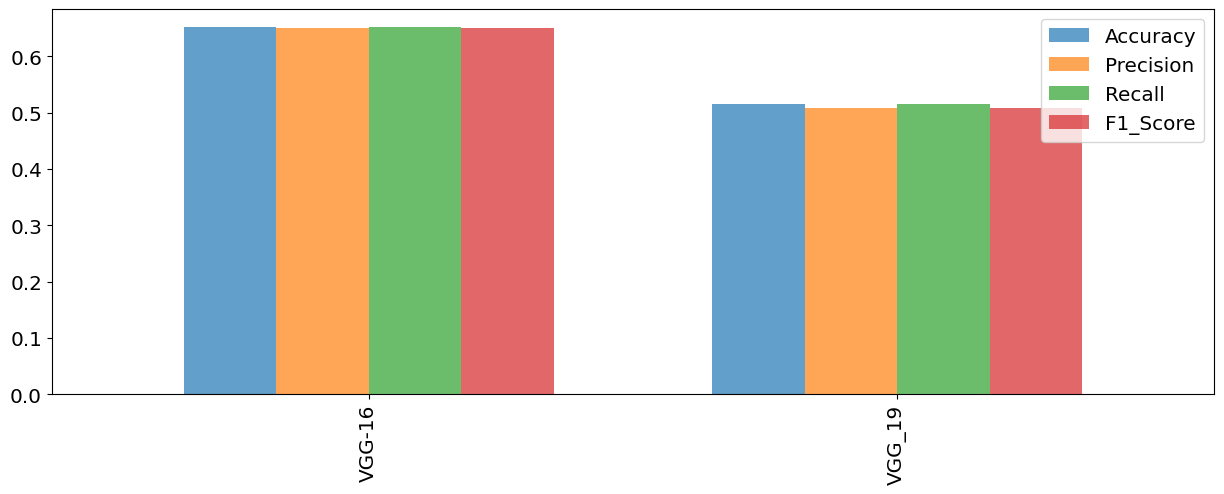
#The optimal number of epochs for training your VGG16 model

Ans:25

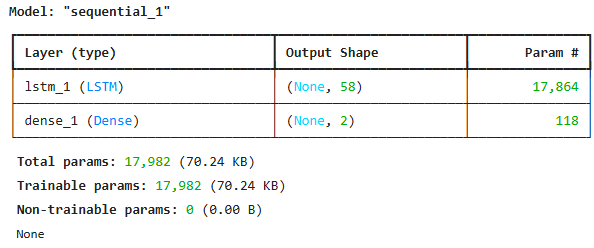
#The final Performance Table

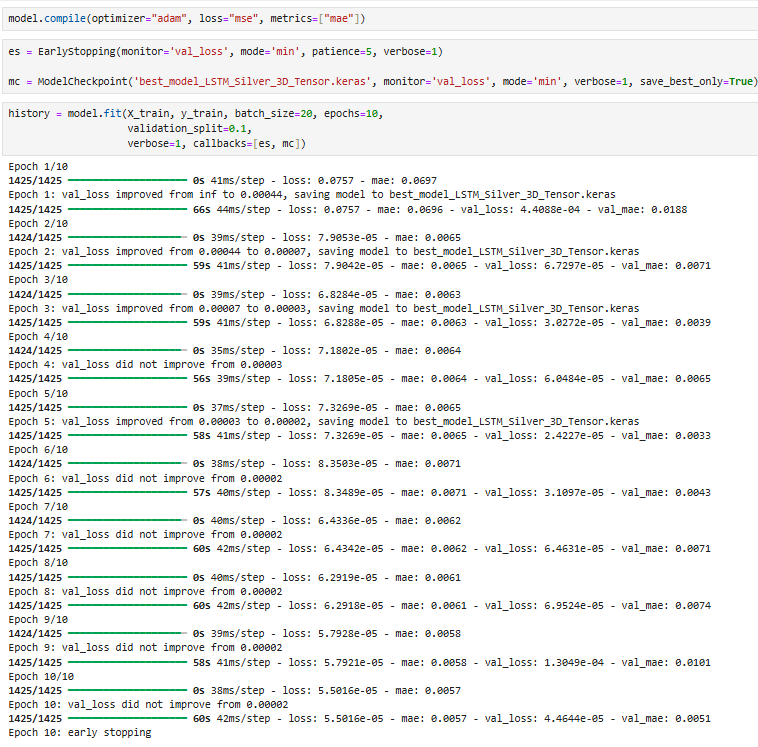


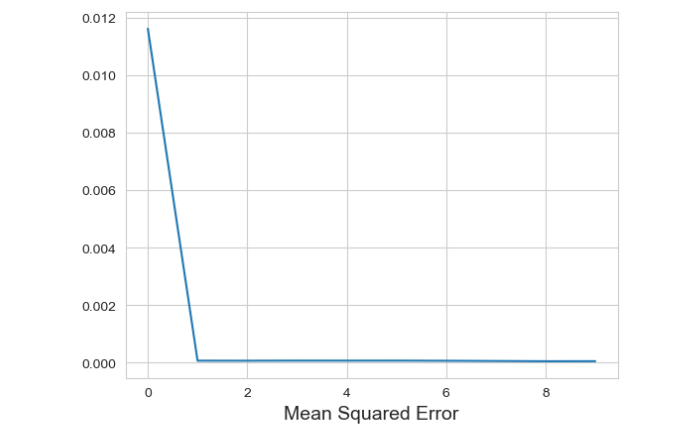
#The performance comparing histogram of VGG16 and VGG19

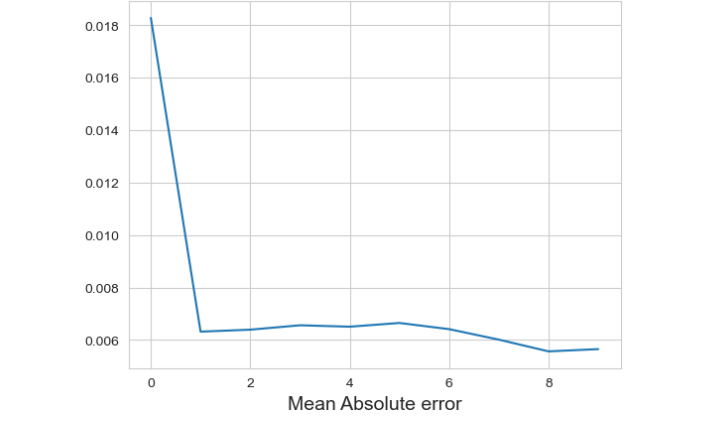


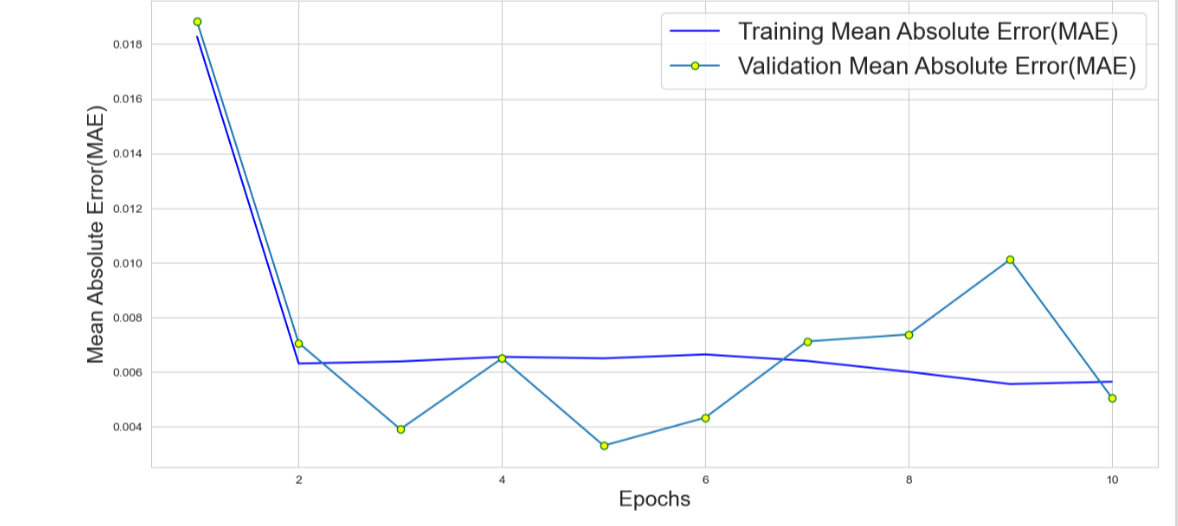
Lab 8



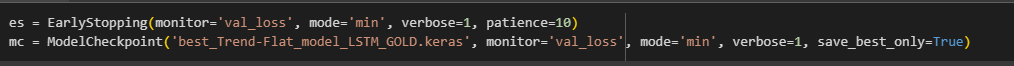


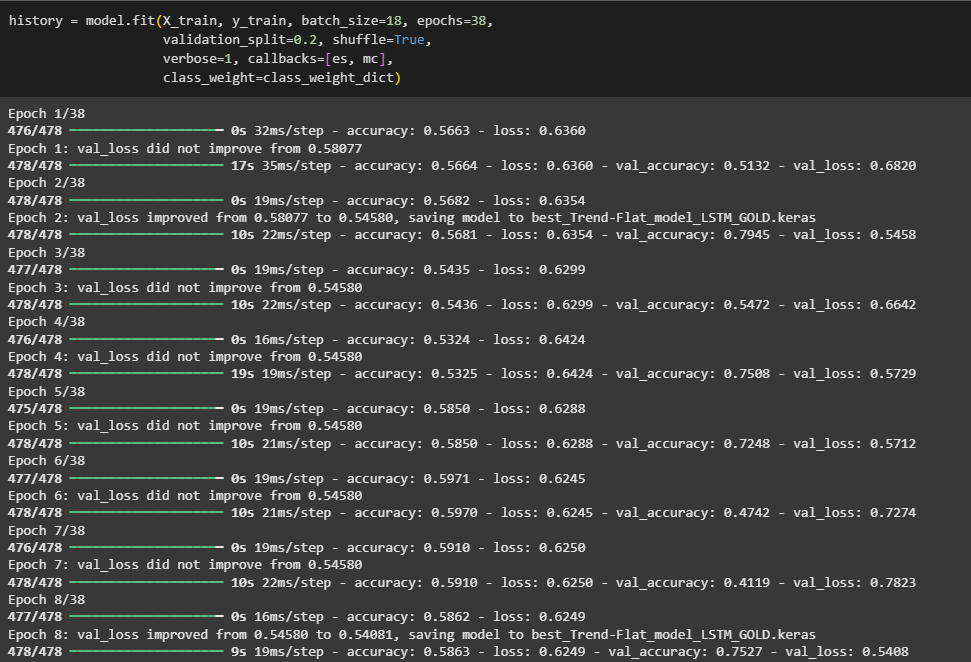


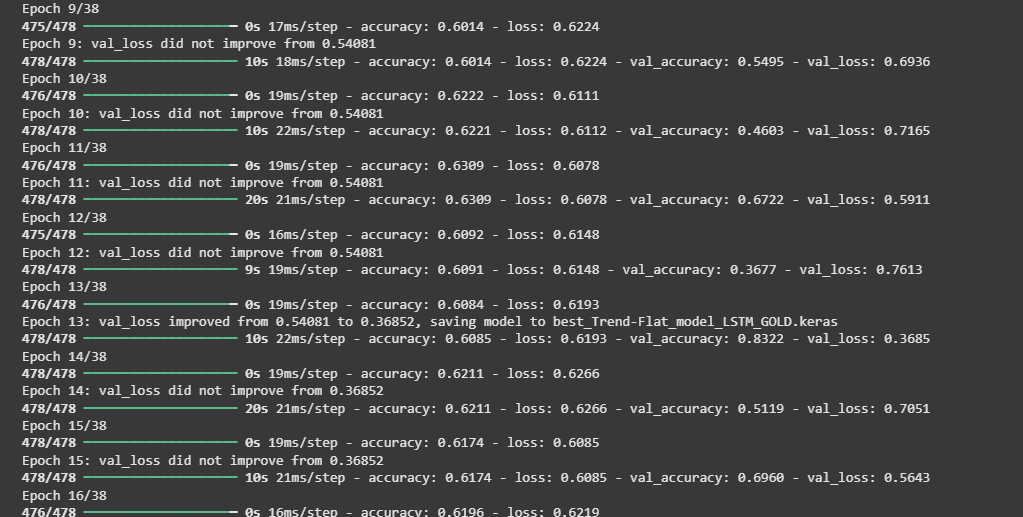


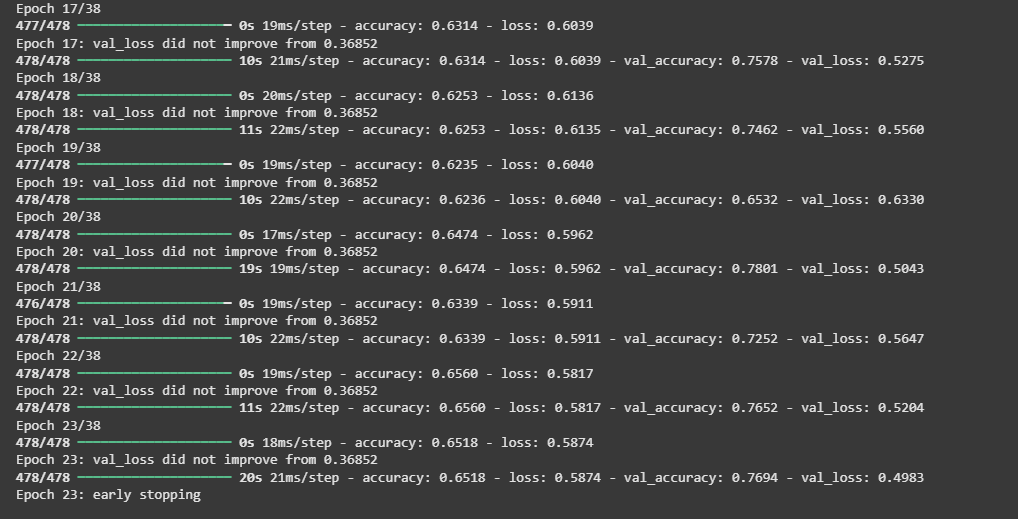


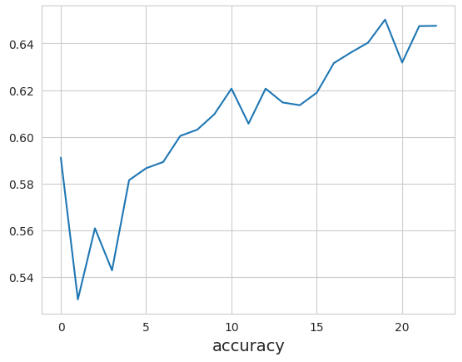
Lab 9

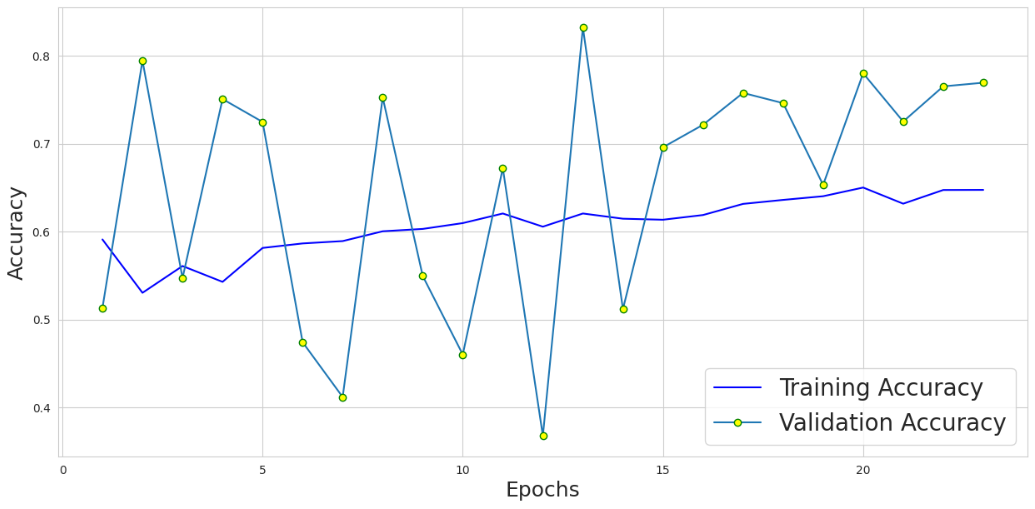


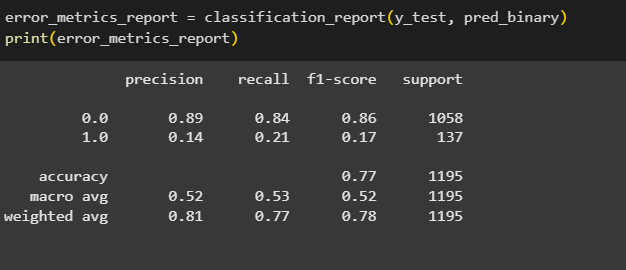








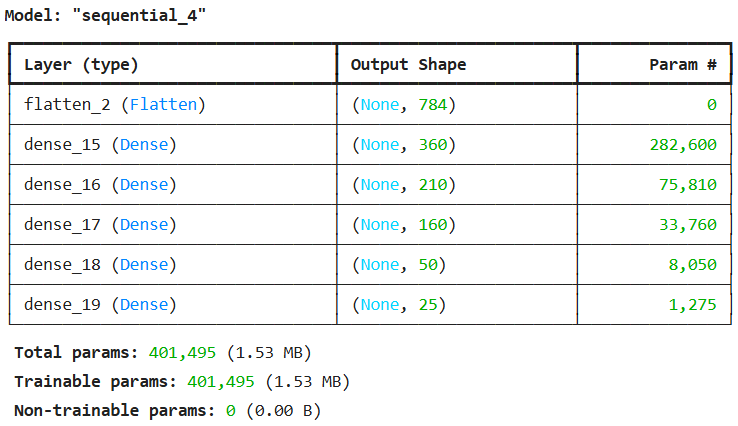




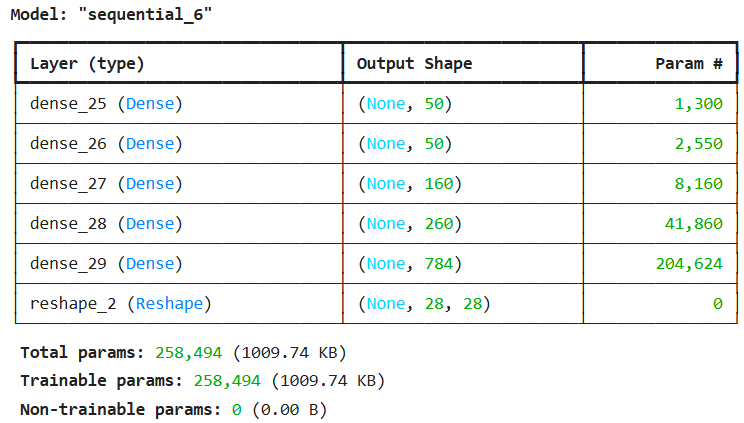
Lab 10

Task-1

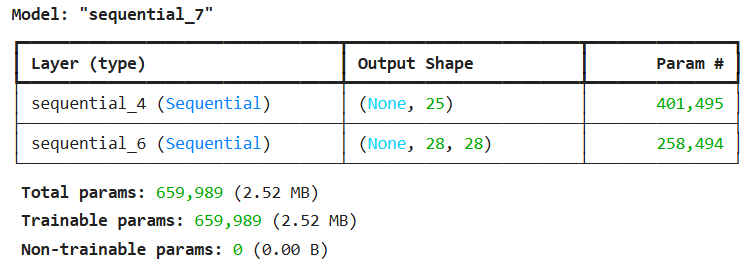
Encoder



Decoder

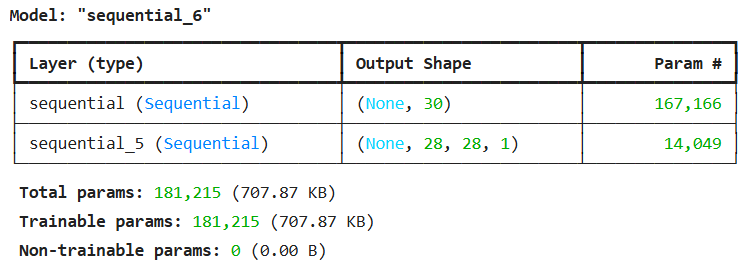


Autoencoder

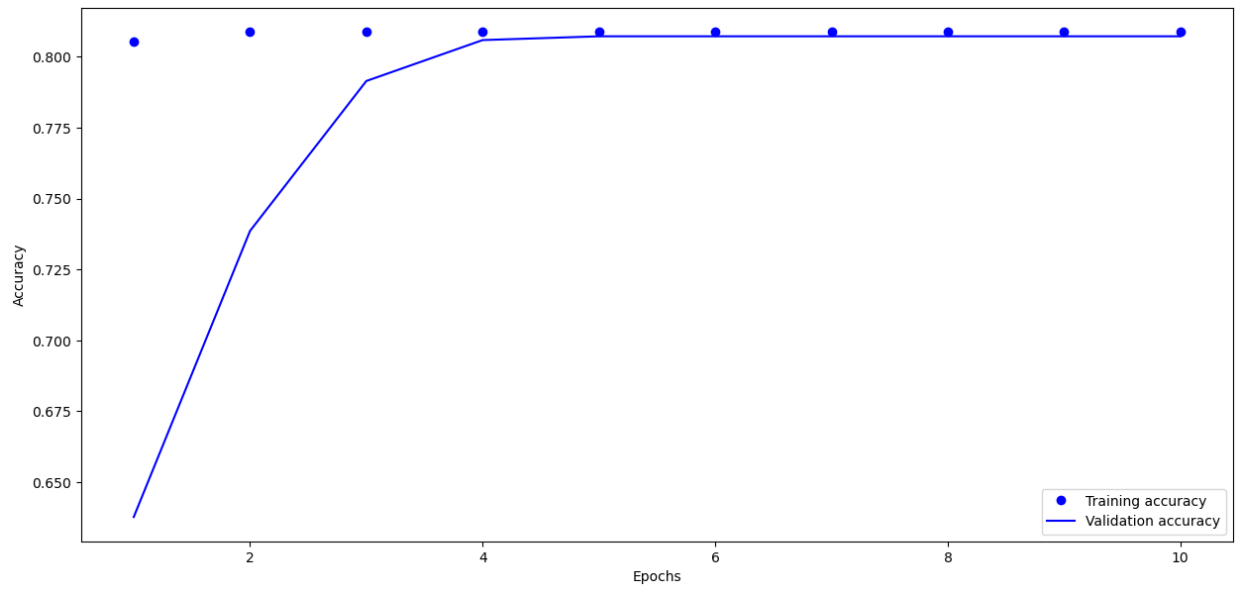


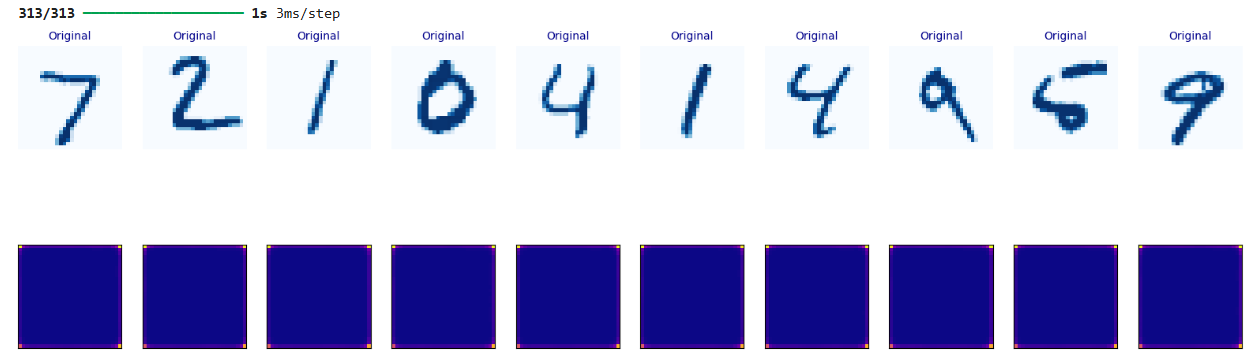
Task-2

Autoencoder2



history\_2 = autoencoder.fit(x=x\_train, y=x\_train, epochs=48,batch\_size=128,shuffle=True, verbose=1,validation\_data=(x\_test, x\_test))





Lab 11

Lab 12