Lab-9 :

1. EarlyStopping() and ModelCheckpoint() functions:

es=EarlyStopping(monitor='val\_loss', mode='min', verbose=1, patience=10)

mc=ModelCheckpoint('best\_Trand-Flat\_model\_LSTM\_GOLD.keras',monitor='val\_loss',mode='min',verbose=1,save\_best\_only=True)

2. code and training result using model.fit():

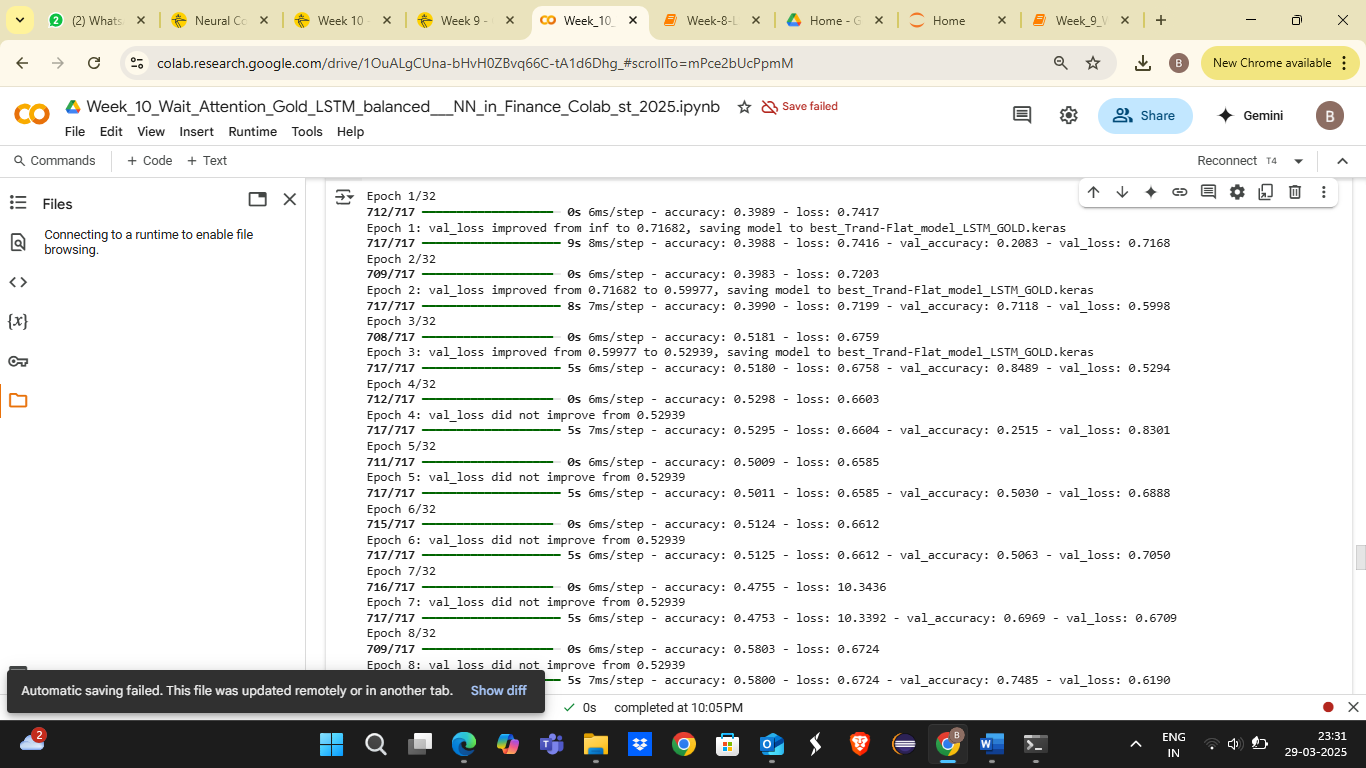
history=model.fit(X\_train,y\_train,batch\_size=12,epochs=32,

                  validation\_split=0.2,shuffle=True,

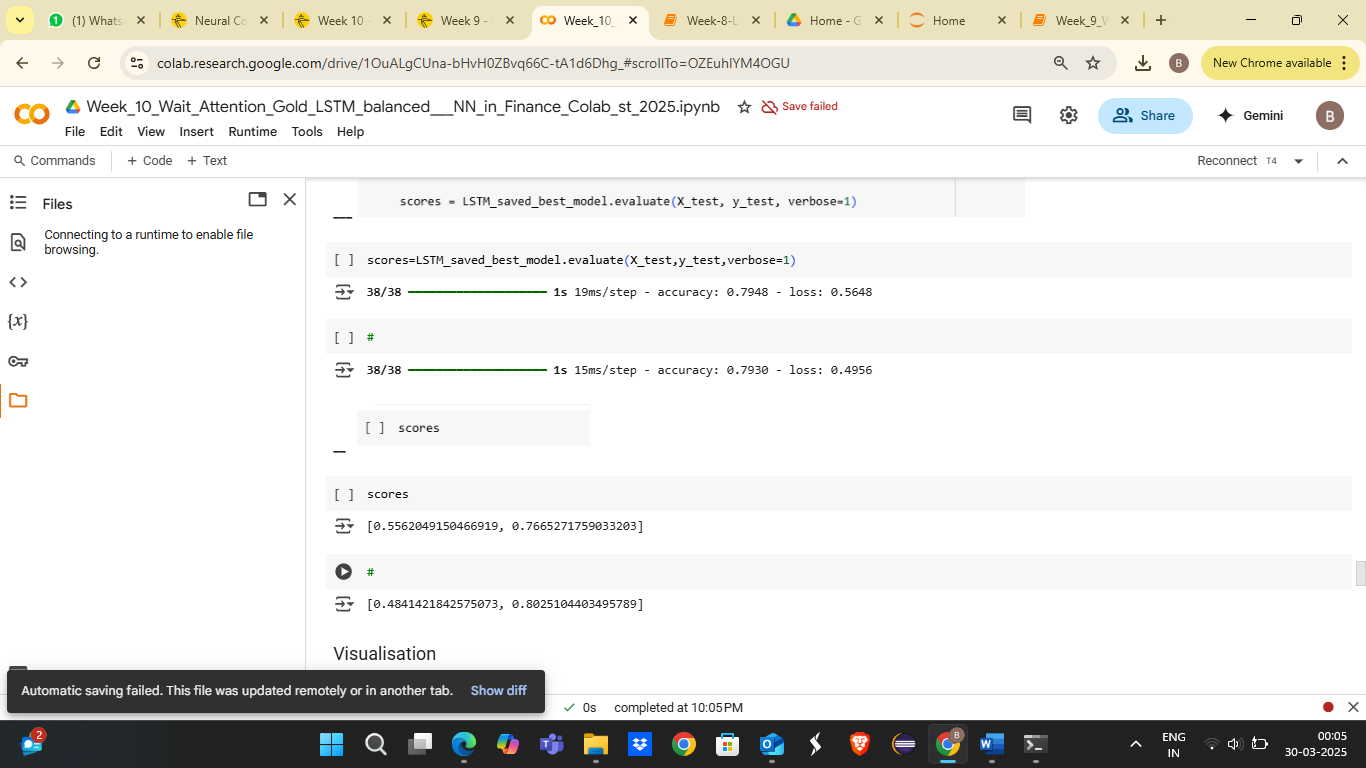
                  verbose=1,callbacks=[es,mc],

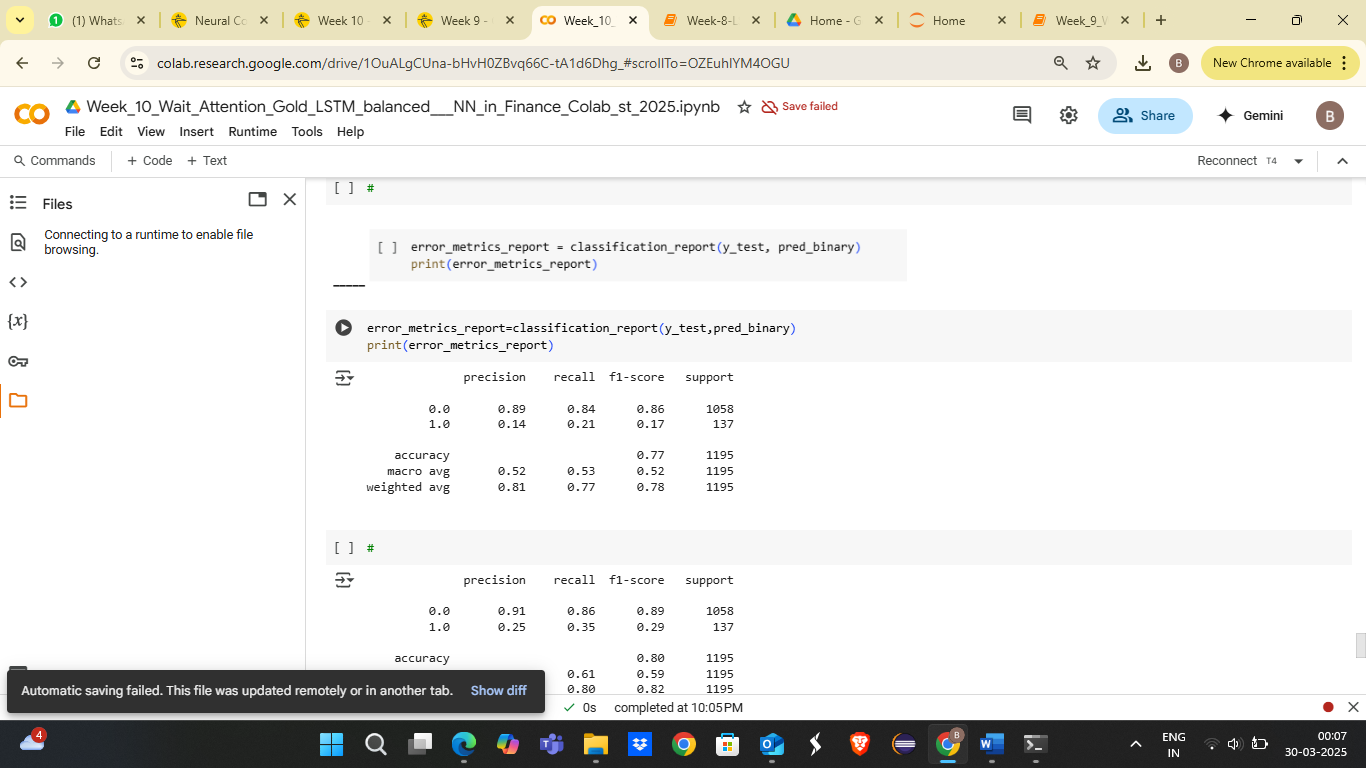
                  class\_weight=class\_weight\_dict

)



3. The resulting test Accuracy and other error metrics for the classification task using classification\_report():





4. Accuracy detailed graph:

