

LSTM on DonorsChoose

In [41]:

```
%matplotlib inline
import warnings
warnings.filterwarnings("ignore")
import sqlite3
import pandas as pd
import numpy as np
import nltk
import string
import matplotlib.pyplot as plt
import seaborn as sns
from pickle import load, dump
from nltk.stem.porter import PorterStemmer
import re
import string
from nltk.corpus import stopwords
from nltk.stem import PorterStemmer
from nltk.stem.wordnet import WordNetLemmatizer
from sklearn.metrics import roc_auc_score
import pickle
from tqdm import tqdm
import os
import plotly.offline as offline
offline.init_notebook_mode()
from collections import Counter
from sklearn.preprocessing import StandardScaler
from keras.layers import BatchNormalization, Dense, Dropout, Input, Embedding, LSTM, Flatten, GlobalAveragePooling1D, GlobalMaxPooling1D
from keras.layers import Conv1D, MaxPool1D, LeakyReLU, ELU, SpatialDropout1D, MaxPooling1D
from keras.models import Model, Sequential, load_model
from keras.preprocessing.text import Tokenizer, one_hot
from keras.layers.merge import concatenate
from keras.preprocessing.sequence import pad_sequences
from keras import regularizers
from keras.optimizers import *
from keras.callbacks import ModelCheckpoint, EarlyStopping, TensorBoard, ReduceLROnPlateau
from sklearn import model_selection
from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import TfidfVectorizer, CountVectorizer
import tensorflow as tf
from sklearn.preprocessing import LabelEncoder
```

Importing the data

In [14]:

```
project_data = pd.read_csv('preprocessed_data.csv')
```

In [15]:

```
project_data.head(1)
```

Out[15]:

	school_state	teacher_prefix	project_grade_category	teacher_number_of_previously_posted_projects	project_is_approved
0	ca	mrs	grades_prek_2	53	1

Splitting the data into Test - Train

In [16]:

```
y=project_data['project_is_approved']
features = project_data.drop(["project_is_approved"],axis=1)
```

In [17]:

```
#https://scikit-learn.org/stable/modules/generated/sklearn.model_selection.train_test_split.html
#split the data into train and test fo bag of words
x_train,x_test,y_train,y_test=model_selection.train_test_split(features,y,test_size=0.30,stratify=y,
,random_state=0)
```

Model-1

Essay model

In [19]:

```
tokenizer = Tokenizer(num_words=5000)
tokenizer.fit_on_texts(x_train["essay"].tolist())
sequences_train = tokenizer.texts_to_sequences(x_train["essay"])
sequences_test = tokenizer.texts_to_sequences(x_test["essay"])
```

In [20]:

```
print("No. of datapoints in X_train :",len(x_train))
print("No. of datapoints in X_test :",len(x_test))
print("Shape of Y_train :",y_train.shape)
print("Shape of Y_test :",y_test.shape)
```

```
No. of datapoints in X_train : 76473
No. of datapoints in X_test : 32775
Shape of Y_train : (76473,)
Shape of Y_test : (32775,)
```

In [21]:

```
# word_index: dictionary mapping words (str) to their rank/index (int)
# http://faroit.com/keras-docs/1.2.2/preprocessing/text/
word2idx = tokenizer.word_index
print('Found %s unique tokens.' % len(word2idx))
```

Found 49329 unique tokens.

In [22]:

```
# https://keras.rstudio.com/reference/pad_sequences.html
max_review_length = 350
encoded_train = pad_sequences(sequences_train,maxlen=max_review_length,padding='post')
encoded_test = pad_sequences(sequences_test, maxlen=max_review_length,padding='post')

print('Shape of train data tensor:', encoded_train.shape)
print('Shape of test data tensor:', encoded_test.shape)
```

```
Shape of train data tensor: (76473, 350)
Shape of test data tensor: (32775, 350)
```

In [23]:

```
# Loading Embedding File
pickle_in = open("glove_vectors","rb")
```

```
glove_words = pickle.load(pickle_in)
```

In [24]:

```
MAX_VOCAB_SIZE=5000
num_words = min(MAX_VOCAB_SIZE, len(word2idx) + 1)
embedding_matrix = np.zeros((num_words, 300))
for word, i in word2idx.items():
    if i < MAX_VOCAB_SIZE:
        embedding_vector = glove_words.get(word)
        if embedding_vector is not None:
            # words not found in embedding index will be all zeros.
            embedding_matrix[i] = embedding_vector

print(num_words)
print(embedding_matrix.shape)
```

```
5000
(5000, 300)
```

In [26]:

```
# load pre-trained word embeddings into an Embedding layer
# note that we set trainable = False so as to keep the embeddings fixed
MAX_SEQUENCE_LENGTH=350
embedding_layer = Embedding(
    num_words,
    300,
    weights=[embedding_matrix],
    input_length=MAX_SEQUENCE_LENGTH,
    trainable=False
)
input_text = Input(shape=(MAX_SEQUENCE_LENGTH,), name="input_text")
x = embedding_layer(input_text)
x = LSTM(4, return_sequences=True)(x) # dropout=0.5
flatten_1 = Flatten()(x)
```

Teacher prefix layer

In [28]:

```
no_of_unique_prefix = x_train["teacher_prefix"].nunique()
embedding_size_prefix = int(min(np.ceil((no_of_unique_prefix)/2), 50 ))
# Input and Embedding Layer
input_prefix = Input(shape=(1,), name="teacher_prefix")
embedding_prefix = Embedding(no_of_unique_prefix, embedding_size_prefix, name="emb_pre", trainable=True)(input_prefix)
flatten_2 = Flatten()(embedding_prefix)

lb = LabelEncoder()
encoder_prefix_train = lb.fit_transform(x_train["teacher_prefix"])
encoder_prefix_test = lb.transform(x_test["teacher_prefix"])
```

School State layer

In [29]:

```
no_of_unique_state = x_train["school_state"].nunique()
embedding_size_state = int(min(np.ceil((no_of_unique_state)/2), 50 ))
# Input and Embedding Layer
input_state = Input(shape=(1,), name="school_prefix")
embedding_state = Embedding(no_of_unique_state, embedding_size_state, name="emb_state", trainable=True)(input_state)
flatten_3 = Flatten()(embedding_state)

encoder_state_train = lb.fit_transform(x_train["school_state"])
encoder_state_test = lb.transform(x_test["school_state"])
```

Project Grade Category layer

In [30]:

```
no_of_unique_grade = x_train["project_grade_category"].nunique()
embedding_size_grade = int(min(np.ceil((no_of_unique_grade)/2), 50))
# Input and Embedding Layer
input_grade= Input(shape=(1,),name="grade_cat")
embedding_grade = Embedding(no_of_unique_grade,embedding_size_grade,name="emb_grade",trainable=True)(input_grade)
flatten_4 = Flatten()(embedding_grade)

encoder_grade_train = lb.fit_transform(x_train["project_grade_category"])
encoder_grade_test = lb.transform(x_test["project_grade_category"])
```

Clean Categories layer

In [31]:

```
no_of_unique_subcat = x_train["clean_categories"].nunique()
embedding_size_subcat = int(min(np.ceil((no_of_unique_subcat)/2), 50))

# Input and Embedding Layer
input_subcat= Input(shape=(1,),name="sub_cat")
embedding_subcat = Embedding(no_of_unique_subcat,embedding_size_subcat,name="emb_subcat",trainable=True)(input_subcat)
flatten_5 = Flatten()(embedding_subcat)

le = LabelEncoder()
le.fit(x_train["clean_categories"])
x_test["clean_categories"] = x_test["clean_categories"].map(lambda s: '<unknown>' if s not in le.classes_ else s) #unknown is used as value if are any unknown values
le.classes_ = np.append(le.classes_, '<unknown>')
encoder_subcat_train = le.transform(x_train["clean_categories"])
encoder_subcat_test= le.transform(x_test["clean_categories"])
```

Clean subcategories layer

In [32]:

```
no_of_unique_subcat_1 = x_train["clean_subcategories"].nunique()
embedding_size_subcat_1 = int(min(np.ceil((no_of_unique_subcat_1)/2), 50))
# Input and Embedding Layer
input_subcat_1= Input(shape=(1,),name="sub_cat_1")
embedding_subcat_1 = Embedding(no_of_unique_subcat_1+1,embedding_size_subcat_1,name="emb_subcat_1",trainable=True)(input_subcat_1)#adding +1
flatten_6 = Flatten()(embedding_subcat_1)
le = LabelEncoder()
le.fit(x_train["clean_subcategories"])
x_test["clean_subcategories"] = x_test["clean_subcategories"].map(lambda s: '<unknown>' if s not in le.classes_ else s)
le.classes_ = np.append(le.classes_, '<unknown>')

encoder_subcat_1_train = le.transform(x_train["clean_subcategories"])
encoder_subcat_1_test= le.transform(x_test["clean_subcategories"])
```

Numerical features

In [33]:

```
# Preparing Text Data As per Our Model
x_train["len_essay"] = x_train["essay"].apply(len)
x_test["len_essay"] = x_test["essay"].apply(len)
```

In [34]:

```
num_train_1=x_train['len_essay'].values.reshape(-1, 1)
num_train_2=x_train['price'].values.reshape(-1, 1)
```

```

num_train_1=x_train['price'].values.reshape(-1, 1)
num_train_3=x_train['teacher_number_of_previously_posted_projects'].values.reshape(-1, 1)

num_test_1=x_test['len_essay'].values.reshape(-1, 1)
num_test_2=x_test['price'].values.reshape(-1, 1)
num_test_3=x_test['teacher_number_of_previously_posted_projects'].values.reshape(-1, 1)
num_train=np.concatenate((num_train_1,num_train_2,num_train_3),axis=1)
num_test=np.concatenate((num_test_1,num_test_2,num_test_3),axis=1)

```

In [35]:

```

from sklearn.preprocessing import StandardScaler
norm=StandardScaler()
norm_train=norm.fit_transform(num_train)
norm_test=norm.transform(num_test)

```

In [36]:

```

# Input and Embedding Layer
num_feats = Input(shape=(3,),name="numerical_features")
num_feats_ = Dense(1,activation="relu")(num_feats)

```

In [37]:

```

x_concatenate =
concatenate([flatten_1,flatten_2,flatten_3,flatten_4,flatten_5,flatten_6,num_feats_])

```

In [38]:

```

x = Dense(16,activation="relu")(x_concatenate)
x=Dropout(0.2)(x)
x = Dense(8,activation="relu")(x)
x=Dropout(0.2)(x)
x = Dense(4,activation="relu")(x)
x = BatchNormalization()(x)
output = Dense(2, activation='sigmoid', name='output')(x)
model_1 = Model(inputs=[input_text,input_prefix,input_state,input_grade,
                        input_subcat,input_subcat_1,num_feats],outputs=[output])

```

In [39]:

```

train_data_1 = [encoded_train,encoder_prefix_train,encoder_state_train,
                encoder_grade_train,encoder_subcat_train,encoder_subcat_1_train,norm_train]
test_data_1 = [encoded_test,encoder_prefix_test,encoder_state_test,encoder_grade_test,
               encoder_subcat_test,encoder_subcat_1_test,norm_test]
from keras.utils import np_utils
Y_train = np_utils.to_categorical(y_train, 2)
Y_test = np_utils.to_categorical(y_test, 2)

```

In [41]:

```

checkpoint_1 = ModelCheckpoint("model_1.h5", monitor='val_loss', verbose=1, save_best_only=True, save_weights_only=False, mode='auto', period=1)
earlystop_1 = EarlyStopping(monitor='val_loss', min_delta=0, patience=0, verbose=1, mode='auto', baseline=None, restore_best_weights=True)
reduce_lr_1 = ReduceLROnPlateau(monitor='val_loss', factor = 0.2, patience = 1, verbose = 1, min_delta = 0.0001)
tensorboard_1 = TensorBoard(log_dir='graph_1', histogram_freq=0, batch_size=64, write_graph=True, write_grads=False, write_images=False, embeddings_freq=0, embeddings_layer_names=None, embeddings_metadata=None, embeddings_data=None, update_freq='epoch')
callbacks_1 = [checkpoint_1,earlystop_1,tensorboard_1,reduce_lr_1]

```

In [43]:

```

# Defining Custom ROC-AUC Metrics
from sklearn.metrics import roc_auc_score

def auc1(y_true, y_pred):
    if len(np.unique(y_true[:,1])) == 1:
        return 0.5
    else:

```

```

else:
    return roc_auc_score(y_true, y_pred)

def auROC(y_true, y_pred):
    return tf.py_func(auc1, (y_true, y_pred), tf.double)

```

In [42]:

```

# model compilation
model_1.compile(loss='binary_crossentropy', optimizer='adam', metrics=[auROC])

```

In [45]:

```
model_1.summary()
```

Model: "model_1"

Layer (type)	Output Shape	Param #	Connected to
input_text (InputLayer)	(None, 350)	0	
embedding_1 (Embedding)	(None, 350, 300)	1500000	input_text[0][0]
teacher_prefix (InputLayer)	(None, 1)	0	
school_prefix (InputLayer)	(None, 1)	0	
grade_cat (InputLayer)	(None, 1)	0	
sub_cat (InputLayer)	(None, 1)	0	
sub_cat_1 (InputLayer)	(None, 1)	0	
lstm_1 (LSTM)	(None, 350, 4)	4880	embedding_1[0][0]
emb_pre (Embedding)	(None, 1, 3)	15	teacher_prefix[0][0]
emb_state (Embedding)	(None, 1, 26)	1326	school_prefix[0][0]
emb_grade (Embedding)	(None, 1, 2)	8	grade_cat[0][0]
emb_subcat (Embedding)	(None, 1, 26)	1326	sub_cat[0][0]
emb_subcat_1 (Embedding)	(None, 1, 50)	19650	sub_cat_1[0][0]
numerical_features (InputLayer)	(None, 3)	0	
flatten_1 (Flatten)	(None, 1400)	0	lstm_1[0][0]
flatten_2 (Flatten)	(None, 3)	0	emb_pre[0][0]
flatten_3 (Flatten)	(None, 26)	0	emb_state[0][0]
flatten_4 (Flatten)	(None, 2)	0	emb_grade[0][0]
flatten_5 (Flatten)	(None, 26)	0	emb_subcat[0][0]
flatten_6 (Flatten)	(None, 50)	0	emb_subcat_1[0][0]
dense_1 (Dense)	(None, 1)	4	numerical_features[0][0]
concatenate_1 (Concatenate)	(None, 1508)	0	flatten_1[0][0] flatten_2[0][0] flatten_3[0][0] flatten_4[0][0] flatten_5[0][0] flatten_6[0][0] dense_1[0][0]
dense_2 (Dense)	(None, 16)	24144	concatenate_1[0][0]
dropout_1 (Dropout)	(None, 16)	0	dense_2[0][0]
dense_3 (Dense)	(None, 8)	136	dropout_1[0][0]

dropout_2 (Dropout)	(None, 8)	0	dense_3[0][0]
dense_4 (Dense)	(None, 4)	36	dropout_2[0][0]
batch_normalization_1 (BatchNor	(None, 4)	16	dense_4[0][0]
output (Dense)	(None, 2)	10	batch_normalization_1[0][0]
=====			
Total params: 1,551,551			
Trainable params: 51,543			
Non-trainable params: 1,500,008			

In [193]:

```
history_1 = model_1.fit(train_data_1,Y_train,batch_size=64,
                        epochs=20,validation_data=(test_data_1,Y_test),callbacks=callbacks_1)
```

Train on 76473 samples, validate on 32775 samples

Epoch 1/20

```
12352/76473 [==>.....] - ETA: 1:03:57 - loss: 0.8033 - auroc: 0.42 - ETA: 44
:42 - loss: 0.7878 - auroc: 0.3891 - ETA: 38:37 - loss: 0.7718 - auroc: 0.44 - ETA: 34:58 - loss:
0.7719 - auroc: 0.46 - ETA: 33:24 - loss: 0.7614 - auroc: 0.48 - ETA: 31:59 - loss: 0.7613 - auroc
: 0.49 - ETA: 31:08 - loss: 0.7534 - auroc: 0.51 - ETA: 30:24 - loss: 0.7491 - auroc: 0.50 - ETA:
29:43 - loss: 0.7466 - auroc: 0.50 - ETA: 29:07 - loss: 0.7458 - auroc: 0.48 - ETA: 28:35 - loss:
0.7477 - auroc: 0.46 - ETA: 28:15 - loss: 0.7494 - auroc: 0.46 - ETA: 27:59 - loss: 0.7449 - auroc
: 0.47 - ETA: 27:42 - loss: 0.7416 - auroc: 0.48 - ETA: 27:31 - loss: 0.7406 - auroc: 0.48 - ETA:
27:23 - loss: 0.7384 - auroc: 0.48 - ETA: 27:13 - loss: 0.7341 - auroc: 0.49 - ETA: 27:08 - loss:
0.7309 - auroc: 0.50 - ETA: 26:56 - loss: 0.7291 - auroc: 0.50 - ETA: 26:45 - loss: 0.7273 - auroc
: 0.50 - ETA: 26:36 - loss: 0.7257 - auroc: 0.50 - ETA: 26:27 - loss: 0.7252 - auroc: 0.50 - ETA:
26:21 - loss: 0.7243 - auroc: 0.50 - ETA: 26:12 - loss: 0.7241 - auroc: 0.50 - ETA: 26:04 - loss:
0.7217 - auroc: 0.50 - ETA: 26:00 - loss: 0.7198 - auroc: 0.50 - ETA: 25:58 - loss: 0.7186 - auroc
: 0.50 - ETA: 25:53 - loss: 0.7175 - auroc: 0.50 - ETA: 25:49 - loss: 0.7166 - auroc: 0.50 - ETA:
25:43 - loss: 0.7163 - auroc: 0.50 - ETA: 25:38 - loss: 0.7145 - auroc: 0.50 - ETA: 25:33 - loss:
0.7129 - auroc: 0.51 - ETA: 25:28 - loss: 0.7116 - auroc: 0.51 - ETA: 25:24 - loss: 0.7110 - auroc
: 0.50 - ETA: 25:20 - loss: 0.7104 - auroc: 0.50 - ETA: 25:14 - loss: 0.7095 - auroc: 0.49 - ETA:
25:10 - loss: 0.7086 - auroc: 0.49 - ETA: 25:05 - loss: 0.7080 - auroc: 0.49 - ETA: 25:03 - loss:
0.7066 - auroc: 0.49 - ETA: 24:59 - loss: 0.7054 - auroc: 0.49 - ETA: 24:55 - loss: 0.7041 - auroc
: 0.49 - ETA: 24:51 - loss: 0.7029 - auroc: 0.49 - ETA: 24:47 - loss: 0.7018 - auroc: 0.49 - ETA:
24:44 - loss: 0.7012 - auroc: 0.49 - ETA: 24:41 - loss: 0.7000 - auroc: 0.49 - ETA: 24:38 - loss:
0.6990 - auroc: 0.49 - ETA: 24:35 - loss: 0.6979 - auroc: 0.50 - ETA: 24:32 - loss: 0.6970 - auroc
: 0.49 - ETA: 24:29 - loss: 0.6960 - auroc: 0.49 - ETA: 24:27 - loss: 0.6949 - auroc: 0.49 - ETA:
24:24 - loss: 0.6941 - auroc: 0.49 - ETA: 24:21 - loss: 0.6931 - auroc: 0.50 - ETA: 24:18 - loss:
0.6924 - auroc: 0.50 - ETA: 24:16 - loss: 0.6914 - auroc: 0.49 - ETA: 24:13 - loss: 0.6905 - auroc
: 0.49 - ETA: 24:11 - loss: 0.6900 - auroc: 0.49 - ETA: 24:08 - loss: 0.6891 - auroc: 0.49 - ETA:
24:06 - loss: 0.6881 - auroc: 0.49 - ETA: 24:06 - loss: 0.6873 - auroc: 0.49 - ETA: 24:05 - loss:
0.6866 - auroc: 0.49 - ETA: 24:02 - loss: 0.6856 - auroc: 0.50 - ETA: 24:01 - loss: 0.6850 - auroc
: 0.50 - ETA: 24:00 - loss: 0.6842 - auroc: 0.49 - ETA: 24:00 - loss: 0.6834 - auroc: 0.49 - ETA:
23:59 - loss: 0.6829 - auroc: 0.49 - ETA: 23:59 - loss: 0.6821 - auroc: 0.49 - ETA: 23:58 - loss:
0.6813 - auroc: 0.49 - ETA: 23:56 - loss: 0.6806 - auroc: 0.49 - ETA: 23:54 - loss: 0.6797 - auroc
: 0.49 - ETA: 23:54 - loss: 0.6790 - auroc: 0.49 - ETA: 23:55 - loss: 0.6782 - auroc: 0.49 - ETA:
23:54 - loss: 0.6773 - auroc: 0.49 - ETA: 23:53 - loss: 0.6768 - auroc: 0.49 - ETA: 23:57 - loss:
0.6763 - auroc: 0.49 - ETA: 24:03 - loss: 0.6756 - auroc: 0.49 - ETA: 24:03 - loss: 0.6750 - auroc
: 0.49 - ETA: 24:04 - loss: 0.6744 - auroc: 0.49 - ETA: 24:08 - loss: 0.6737 - auroc: 0.49 - ETA:
24:10 - loss: 0.6731 - auroc: 0.49 - ETA: 24:10 - loss: 0.6725 - auroc: 0.49 - ETA: 24:13 - loss:
0.6716 - auroc: 0.49 - ETA: 24:13 - loss: 0.6710 - auroc: 0.49 - ETA: 24:13 - loss: 0.6702 - auroc
: 0.49 - ETA: 24:21 - loss: 0.6694 - auroc: 0.49 - ETA: 24:20 - loss: 0.6687 - auroc: 0.49 - ETA:
24:19 - loss: 0.6679 - auroc: 0.49 - ETA: 24:17 - loss: 0.6674 - auroc: 0.49 - ETA: 24:16 - loss:
0.6669 - auroc: 0.49 - ETA: 24:14 - loss: 0.6666 - auroc: 0.49 - ETA: 24:12 - loss: 0.6656 - auroc
: 0.49 - ETA: 24:10 - loss: 0.6651 - auroc: 0.49 - ETA: 24:08 - loss: 0.6645 - auroc: 0.49 - ETA:
24:07 - loss: 0.6639 - auroc: 0.49 - ETA: 24:05 - loss: 0.6633 - auroc: 0.49 - ETA: 24:04 - loss:
0.6625 - auroc: 0.49 - ETA: 24:04 - loss: 0.6621 - auroc: 0.49 - ETA: 24:02 - loss: 0.6615 - auroc
: 0.49 - ETA: 24:02 - loss: 0.6608 - auroc: 0.49 - ETA: 24:02 - loss: 0.6601 - auroc: 0.49 - ETA:
24:00 - loss: 0.6595 - auroc: 0.49 - ETA: 23:59 - loss: 0.6588 - auroc: 0.49 - ETA: 23:57 - loss:
0.6583 - auroc: 0.49 - ETA: 23:55 - loss: 0.6576 - auroc: 0.49 - ETA: 23:53 - loss: 0.6572 - auroc
: 0.49 - ETA: 23:53 - loss: 0.6566 - auroc: 0.49 - ETA: 23:51 - loss: 0.6559 - auroc: 0.49 - ETA:
23:50 - loss: 0.6554 - auroc: 0.49 - ETA: 23:50 - loss: 0.6549 - auroc: 0.49 - ETA: 23:49 - loss:
0.6543 - auroc: 0.49 - ETA: 23:49 - loss: 0.6538 - auroc: 0.49 - ETA: 23:48 - loss: 0.6535 - auroc
: 0.49 - ETA: 23:46 - loss: 0.6529 - auroc: 0.49 - ETA: 23:44 - loss: 0.6523 - auroc: 0.49 - ETA:
23:41 - loss: 0.6518 - auroc: 0.49 - ETA: 23:39 - loss: 0.6512 - auroc: 0.49 - ETA: 23:37 - loss:
0.6505 - auroc: 0.49 - ETA: 23:35 - loss: 0.6496 - auroc: 0.49 - ETA: 23:33 - loss: 0.6492 - auroc
: 0.49 - ETA: 23:31 - loss: 0.6485 - auroc: 0.49 - ETA: 23:30 - loss: 0.6481 - auroc: 0.49 - ETA:
23:28 - loss: 0.6477 - auroc: 0.49 - ETA: 23:26 - loss: 0.6473 - auroc: 0.49 - ETA: 23:25 - loss:
0.6466 - auroc: 0.49 - ETA: 23:23 - loss: 0.6463 - auroc: 0.49 - ETA: 23:20 - loss: 0.6456 - auroc
: 0.49 - ETA: 23:19 - loss: 0.6454 - auroc: 0.49 - ETA: 23:17 - loss: 0.6448 - auroc: 0.49 - ETA:
23:15 - loss: 0.6441 - auroc: 0.49 - ETA: 23:13 - loss: 0.6435 - auroc: 0.49 - ETA: 23:11 - loss:
```

```

23:15 - loss: 0.6441 - auROC: 0.49 - ETA: 23:13 - loss: 0.6435 - auROC: 0.49 - ETA: 23:11 - loss:
0.6430 - auROC: 0.49 - ETA: 23:10 - loss: 0.6426 - auROC: 0.49 - ETA: 23:08 - loss: 0.6420 - auROC
: 0.49 - ETA: 23:06 - loss: 0.6414 - auROC: 0.49 - ETA: 23:04 - loss: 0.6409 - auROC: 0.49 - ETA:
23:02 - loss: 0.6405 - auROC: 0.49 - ETA: 23:01 - loss: 0.6401 - auROC: 0.49 - ETA: 22:59 - loss:
0.6393 - auROC: 0.49 - ETA: 22:57 - loss: 0.6389 - auROC: 0.49 - ETA: 22:55 - loss: 0.6382 - auROC
: 0.49 - ETA: 22:53 - loss: 0.6378 - auROC: 0.49 - ETA: 22:52 - loss: 0.6372 - auROC: 0.49 - ETA:
22:51 - loss: 0.6368 - auROC: 0.49 - ETA: 22:49 - loss: 0.6363 - auROC: 0.49 - ETA: 22:48 - loss:
0.6358 - auROC: 0.49 - ETA: 22:46 - loss: 0.6352 - auROC: 0.49 - ETA: 22:45 - loss: 0.6348 - auROC
: 0.49 - ETA: 22:43 - loss: 0.6344 - auROC: 0.49 - ETA: 22:41 - loss: 0.6338 - auROC: 0.49 - ETA:
22:39 - loss: 0.6334 - auROC: 0.49 - ETA: 22:37 - loss: 0.6330 - auROC: 0.49 - ETA: 22:36 - loss:
0.6329 - auROC: 0.49 - ETA: 22:34 - loss: 0.6325 - auROC: 0.49 - ETA: 22:32 - loss: 0.6323 - auROC
: 0.49 - ETA: 22:31 - loss: 0.6318 - auROC: 0.49 - ETA: 22:30 - loss: 0.6313 - auROC: 0.49 - ETA:
22:29 - loss: 0.6308 - auROC: 0.49 - ETA: 22:27 - loss: 0.6303 - auROC: 0.49 - ETA: 22:25 - loss:
0.6300 - auROC: 0.49 - ETA: 22:24 - loss: 0.6293 - auROC: 0.49 - ETA: 22:22 - loss: 0.6289 - auROC
: 0.49 - ETA: 22:22 - loss: 0.6286 - auROC: 0.49 - ETA: 22:20 - loss: 0.6281 - auROC: 0.49 - ETA:
22:19 - loss: 0.6276 - auROC: 0.49 - ETA: 22:17 - loss: 0.6274 - auROC: 0.49 - ETA: 22:16 - loss:
0.6271 - auROC: 0.49 - ETA: 22:14 - loss: 0.6268 - auROC: 0.49 - ETA: 22:12 - loss: 0.6263 - auROC
: 0.49 - ETA: 22:10 - loss: 0.6261 - auROC: 0.49 - ETA: 22:09 - loss: 0.6257 - auROC: 0.49 - ETA:
22:07 - loss: 0.6251 - auROC: 0.49 - ETA: 22:06 - loss: 0.6246 - auROC: 0.49 - ETA: 22:04 - loss:
0.6244 - auROC: 0.49 - ETA: 22:02 - loss: 0.6243 - auROC: 0.49 - ETA: 22:00 - loss: 0.6238 - auROC
: 0.49 - ETA: 21:59 - loss: 0.6233 - auROC: 0.49 - ETA: 21:57 - loss: 0.6227 - auROC: 0.49 - ETA:
21:55 - loss: 0.6223 - auROC: 0.49 - ETA: 21:55 - loss: 0.6219 - auROC: 0.49 - ETA: 21:53 - loss:
0.6214 - auROC: 0.49 - ETA: 21:51 - loss: 0.6208 - auROC: 0.49 - ETA: 21:50 - loss: 0.6204 - auROC
: 0.49 - ETA: 21:50 - loss: 0.6201 - auROC: 0.49 - ETA: 21:48 - loss: 0.6201 - auROC: 0.49 - ETA:
21:46 - loss: 0.6198 - auROC: 0.49 - ETA: 21:45 - loss: 0.6192 - auROC: 0.49 - ETA: 21:45 - loss:
0.6188 - auROC: 0.49 - ETA: 21:44 - loss: 0.6183 - auROC: 0.49 - ETA: 21:42 - loss: 0.6178 - auROC
: 0.49 - ETA: 21:41 - loss: 0.6175 - auROC: 0.49 - ETA: 21:40 - loss: 0.6171 - auROC: 0.49 - ETA:
21:38 - loss: 0.6167 - auROC: 0.49 - ETA: 21:37 - loss: 0.6163 - auROC: 0.49 - ETA: 21:36 - loss:
0.6160 - auROC: 0.4924768/76473 [=====>.....] - ETA: 21:34 - loss: 0.6154 - aur
oc: 0.49 - ETA: 21:33 - loss: 0.6151 - auROC: 0.49 - ETA: 21:31 - loss: 0.6145 - auROC: 0.49 - ETA
: 21:30 - loss: 0.6140 - auROC: 0.49 - ETA: 21:29 - loss: 0.6134 - auROC: 0.49 - ETA: 21:28 - loss
: 0.6131 - auROC: 0.49 - ETA: 21:26 - loss: 0.6126 - auROC: 0.49 - ETA: 21:25 - loss: 0.6120 - aur
oc: 0.49 - ETA: 21:23 - loss: 0.6115 - auROC: 0.49 - ETA: 21:22 - loss: 0.6110 - auROC: 0.49 - ETA
: 21:20 - loss: 0.6104 - auROC: 0.49 - ETA: 21:19 - loss: 0.6100 - auROC: 0.49 - ETA: 21:18 - loss
: 0.6094 - auROC: 0.49 - ETA: 21:16 - loss: 0.6090 - auROC: 0.49 - ETA: 21:14 - loss: 0.6083 - aur
oc: 0.49 - ETA: 21:13 - loss: 0.6078 - auROC: 0.49 - ETA: 21:11 - loss: 0.6073 - auROC: 0.49 - ETA
: 21:10 - loss: 0.6068 - auROC: 0.49 - ETA: 21:08 - loss: 0.6065 - auROC: 0.49 - ETA: 21:06 - loss
: 0.6060 - auROC: 0.49 - ETA: 21:06 - loss: 0.6055 - auROC: 0.49 - ETA: 21:04 - loss: 0.6051 - aur
oc: 0.49 - ETA: 21:03 - loss: 0.6046 - auROC: 0.49 - ETA: 21:02 - loss: 0.6042 - auROC: 0.49 - ETA
: 21:00 - loss: 0.6038 - auROC: 0.49 - ETA: 20:59 - loss: 0.6034 - auROC: 0.49 - ETA: 20:58 - loss
: 0.6029 - auROC: 0.49 - ETA: 20:57 - loss: 0.6024 - auROC: 0.49 - ETA: 20:55 - loss: 0.6017 - aur
oc: 0.49 - ETA: 20:53 - loss: 0.6013 - auROC: 0.49 - ETA: 20:51 - loss: 0.6010 - auROC: 0.49 - ETA
: 20:50 - loss: 0.6005 - auROC: 0.49 - ETA: 20:49 - loss: 0.5999 - auROC: 0.49 - ETA: 20:47 - loss
: 0.5996 - auROC: 0.49 - ETA: 20:46 - loss: 0.5992 - auROC: 0.49 - ETA: 20:44 - loss: 0.5985 - aur
oc: 0.49 - ETA: 20:43 - loss: 0.5981 - auROC: 0.49 - ETA: 20:42 - loss: 0.5975 - auROC: 0.49 - ETA
: 20:40 - loss: 0.5972 - auROC: 0.49 - ETA: 20:39 - loss: 0.5966 - auROC: 0.49 - ETA: 20:37 - loss
: 0.5962 - auROC: 0.49 - ETA: 20:36 - loss: 0.5956 - auROC: 0.49 - ETA: 20:34 - loss: 0.5952 - aur
oc: 0.49 - ETA: 20:32 - loss: 0.5948 - auROC: 0.49 - ETA: 20:31 - loss: 0.5944 - auROC: 0.49 - ETA
: 20:30 - loss: 0.5939 - auROC: 0.49 - ETA: 20:28 - loss: 0.5934 - auROC: 0.49 - ETA: 20:26 - loss
: 0.5934 - auROC: 0.49 - ETA: 20:25 - loss: 0.5928 - auROC: 0.49 - ETA: 20:24 - loss: 0.5922 - aur
oc: 0.49 - ETA: 20:23 - loss: 0.5918 - auROC: 0.49 - ETA: 20:22 - loss: 0.5917 - auROC: 0.49 - ETA
: 20:21 - loss: 0.5914 - auROC: 0.49 - ETA: 20:19 - loss: 0.5909 - auROC: 0.49 - ETA: 20:18 - loss
: 0.5905 - auROC: 0.49 - ETA: 20:16 - loss: 0.5902 - auROC: 0.49 - ETA: 20:15 - loss: 0.5897 - aur
oc: 0.49 - ETA: 20:13 - loss: 0.5896 - auROC: 0.49 - ETA: 20:12 - loss: 0.5892 - auROC: 0.49 - ETA
: 20:10 - loss: 0.5888 - auROC: 0.49 - ETA: 20:08 - loss: 0.5884 - auROC: 0.49 - ETA: 20:07 - loss
: 0.5881 - auROC: 0.49 - ETA: 20:05 - loss: 0.5877 - auROC: 0.49 - ETA: 20:04 - loss: 0.5875 - aur
oc: 0.49 - ETA: 20:03 - loss: 0.5872 - auROC: 0.49 - ETA: 20:01 - loss: 0.5871 - auROC: 0.49 - ETA
: 19:59 - loss: 0.5869 - auROC: 0.49 - ETA: 19:58 - loss: 0.5867 - auROC: 0.49 - ETA: 19:56 - loss
: 0.5862 - auROC: 0.49 - ETA: 19:55 - loss: 0.5861 - auROC: 0.49 - ETA: 19:54 - loss: 0.5856 - aur
oc: 0.49 - ETA: 19:52 - loss: 0.5852 - auROC: 0.49 - ETA: 19:51 - loss: 0.5848 - auROC: 0.49 - ETA
: 19:49 - loss: 0.5843 - auROC: 0.49 - ETA: 19:48 - loss: 0.5842 - auROC: 0.49 - ETA: 19:46 - loss
: 0.5839 - auROC: 0.49 - ETA: 19:45 - loss: 0.5835 - auROC: 0.49 - ETA: 19:43 - loss: 0.5832 - aur
oc: 0.49 - ETA: 
```



```
oc: 0.49 - ETA: 18:56 - loss: 0.5714 - auroc: 0.49 - ETA: 18:55 - loss: 0.5711 - auroc: 0.49 - ETA
: 18:53 - loss: 0.5710 - auroc: 0.49 - ETA: 18:52 - loss: 0.5706 - auroc: 0.49 - ETA: 18:51 - loss
: 0.5702 - auroc: 0.49 - ETA: 18:49 - loss: 0.5698 - auroc: 0.49 - ETA: 18:48 - loss: 0.5694 - aur
oc: 0.49 - ETA: 18:46 - loss: 0.5687 - auroc: 0.49 - ETA: 18:45 - loss: 0.5684 - auroc: 0.49 - ETA
: 18:44 - loss: 0.5678 - auroc: 0.49 - ETA: 18:42 - loss: 0.5674 - auroc: 0.49 - ETA: 18:41 - loss
: 0.5670 - auroc: 0.49 - ETA: 18:40 - loss: 0.5670 - auroc: 0.49 - ETA: 18:38 - loss: 0.5665 - aur
oc: 0.49 - ETA: 18:37 - loss: 0.5661 - auroc: 0.49 - ETA: 18:35 - loss: 0.5659 - auroc: 0.49 - ETA
: 18:34 - loss: 0.5655 - auroc: 0.49 - ETA: 18:32 - loss: 0.5650 - auroc: 0.49 - ETA: 18:31 - loss
: 0.5647 - auroc: 0.49 - ETA: 18:29 - loss: 0.5643 - auroc: 0.49 - ETA: 18:28 - loss: 0.5638 - aur
oc: 0.49 - ETA: 18:27 - loss: 0.5634 - auroc: 0.49 - ETA: 18:25 - loss: 0.5630 - auroc: 0.49 - ETA
: 18:24 - loss: 0.5629 - auroc: 0.49 - ETA: 18:22 - loss: 0.5628 - auroc: 0.49 - ETA: 18:21 - loss
: 0.5625 - auroc: 0.49 - ETA: 18:20 - loss: 0.5625 - auroc: 0.49 - ETA: 18:18 - loss: 0.5622 - aur
oc: 0.49 - ETA: 18:17 - loss: 0.5621 - auroc: 0.49 - ETA: 18:15 - loss: 0.5619 - auroc: 0.49 - ETA
: 18:14 - loss: 0.5616 - auroc: 0.49 - ETA: 18:13 - loss: 0.5613 - auroc: 0.49 - ETA: 18:11 - loss
: 0.5608 - auroc: 0.49 - ETA: 18:10 - loss: 0.5604 - auroc: 0.49 - ETA: 18:08 - loss: 0.5603 - aur
oc: 0.49 - ETA: 18:07 - loss: 0.5601 - auroc: 0.49 - ETA: 18:06 - loss: 0.5595 - auroc: 0.49 - ETA
: 18:04 - loss: 0.5592 - auroc: 0.49 - ETA: 18:03 - loss: 0.5590 - auroc: 0.49 - ETA: 18:02 - loss
: 0.5586 - auroc: 0.49 - ETA: 18:00 - loss: 0.5582 - auroc: 0.49 - ETA: 17:59 - loss: 0.5582 - aur
oc: 0.49 - ETA: 17:57 - loss: 0.5581 - auroc: 0.49 - ETA: 17:56 - loss: 0.5579 - auroc: 0.49 - ETA
: 17:54 - loss: 0.5577 - auroc: 0.49 - ETA: 17:53 - loss: 0.5577 - auroc: 0.49 - ETA: 17:52 - loss
: 0.5575 - auroc: 0.49 - ETA: 17:50 - loss: 0.5574 - auroc: 0.49 - ETA: 17:49 - loss: 0.5573 - aur
oc: 0.49 - ETA: 17:48 - loss: 0.5572 - auroc: 0.49 - ETA: 17:46 - loss: 0.5569 - auroc: 0.49 - ETA
: 17:45 - loss: 0.5566 - auroc: 0.49 - ETA: 17:43 - loss: 0.5563 - auroc: 0.49 - ETA: 17:42 - loss
: 0.5563 - auroc: 0.49 - ETA: 17:41 - loss: 0.5559 - auroc: 0.49 - ETA: 17:39 - loss: 0.5555 - aur
oc: 0.49 - ETA: 17:38 - loss: 0.5553 - auroc: 0.49 - ETA: 17:37 - loss: 0.5550 - auroc: 0.49 - ETA
: 17:35 - loss: 0.5546 - auroc: 0.49 - ETA: 17:34 - loss: 0.5544 - auroc: 0.49 - ETA: 17:32 - loss
: 0.5540 - auroc: 0.49 - ETA: 17:31 - loss: 0.5537 - auroc: 0.49 - ETA: 17:30 - loss: 0.5535 - aur
oc: 0.49 - ETA: 17:28 - loss: 0.5530 - auroc: 0.49 - ETA: 17:27 - loss: 0.5528 - auroc: 0.49 - ETA
: 17:26 - loss: 0.5526 - auroc: 0.49 - ETA: 17:24 - loss: 0.5524 - auroc: 0.49 - ETA: 17:23 - loss
: 0.5521 - auroc: 0.49 - ETA: 17:22 - loss: 0.5517 - auroc: 0.49 - ETA: 17:20 - loss: 0.5515 - aur
oc: 0.49 - ETA: 17:19 - loss: 0.5511 - auroc: 0.49 - ETA: 17:17 - loss: 0.5508 - auroc: 0.49 - ETA
: 17:16 - loss: 0.5506 - auroc: 0.49 - ETA: 17:15 - loss: 0.5503 - auroc: 0.49 - ETA: 17:13 - loss
: 0.5502 - auroc: 0.49 - ETA: 17:12 - loss: 0.5503 - auroc: 0.49 - ETA: 17:11 - loss: 0.5497 - aur
oc: 0.49 - ETA: 17:09 - loss: 0.5494 - auroc: 0.49 - ETA: 17:08 - loss: 0.5491 - auroc: 0.49 - ETA
: 17:07 - loss: 0.5490 - auroc: 0.49 - ETA: 17:05 - loss: 0.5488 - auroc: 0.495937184/76473
[=====>.....] - ETA: 17:04 - loss: 0.5488 - auroc: 0.49 - ETA: 17:03 - loss: 0.
5486 - auroc: 0.49 - ETA: 17:01 - loss: 0.5487 - auroc: 0.49 - ETA: 17:00 - loss: 0.5484 - auroc:
0.49 - ETA: 16:59 - loss: 0.5479 - auroc: 0.49 - ETA: 16:57 - loss: 0.5477 - auroc: 0.49 - ETA: 16
:56 - loss: 0.5476 - auroc: 0.49 - ETA: 16:55 - loss: 0.5472 - auroc: 0.49 - ETA: 16:53 - loss: 0.
5468 - auroc: 0.49 - ETA: 16:52 - loss: 0.5466 - auroc: 0.49 - ETA: 16:51 - loss: 0.5462 - auroc:
0.49 - ETA: 16:49 - loss: 0.5461 - auroc: 0.49 - ETA: 16:48 - loss: 0.5459 - auroc: 0.49 - ETA: 16
:47 - loss: 0.5455 - auroc: 0.49 - ETA: 16:45 - loss: 0.5455 - auroc: 0.49 - ETA: 16:44 - loss: 0.
5453 - auroc: 0.49 - ETA: 16:42 - loss: 0.5451 - auroc: 0.49 - ETA: 16:41 - loss: 0.5448 - auroc:
0.49 - ETA: 16:40 - loss: 0.5446 - auroc: 0.49 - ETA: 16:38 - loss: 0.5442 - auroc: 0.49 - ETA: 16
:37 - loss: 0.5440 - auroc: 0.49 - ETA: 16:36 - loss: 0.5440 - auroc: 0.49 - ETA: 16:34 - loss: 0.
5437 - auroc: 0.49 - ETA: 16:33 - loss: 0.5433 - auroc: 0.49 - ETA: 16:32 - loss: 0.5432 - auroc:
0.49 - ETA: 16:30 - loss: 0.5430 - auroc: 0.49 - ETA: 16:29 - loss: 0.5425 - auroc: 0.49 - ETA: 16
:27 - loss: 0.5422 - auroc: 0.49 - ETA: 16:26 - loss: 0.5420 - auroc: 0.49 - ETA: 16:25 - loss: 0.
5417 - auroc: 0.49 - ETA: 16:23 - loss: 0.5412 - auroc: 0.49 - ETA: 16:22 - loss: 0.5410 - auroc:
0.49 - ETA: 16:21 - loss: 0.5408 - auroc: 0.49 - ETA: 16:19 - loss: 0.5404 - auroc: 0.49 - ETA: 16
:18 - loss: 0.5400 - auroc: 0.49 - ETA: 16:17 - loss: 0.5398 - auroc: 0.49 - ETA: 16:15 - loss: 0.
5395 - auroc: 0.49 - ETA: 16:14 - loss: 0.5394 - auroc: 0.49 - ETA: 16:13 - loss: 0.5391 - auroc:
0.49 - ETA: 16:11 - loss: 0.5389 - auroc: 0.49 - ETA: 16:10 - loss: 0.5385 - auroc: 0.49 - ETA: 16
:09 - loss: 0.5381 - auroc: 0.49 - ETA: 16:07 - loss: 0.5376 - auroc: 0.49 - ETA: 16:06 - loss: 0.
5373 - auroc: 0.49 - ETA: 16:05 - loss: 0.5372 - auroc: 0.49 - ETA: 16:03 - loss: 0.5370 - auroc:
0.49 - ETA: 16:02 - loss: 0.5367 - auroc: 0.49 - ETA: 16:01 - loss: 0.5365 - auroc: 0.49 - ETA: 15
:59 - loss: 0.5360 - auroc: 0.49 - ETA: 15:58 - loss: 0.5359 - auroc: 0.49 - ETA: 15:57 - loss: 0.
5357 - auroc: 0.49 - ETA: 15:55 - loss: 0.5353 - auroc: 0.49 - ETA: 15:54 - loss: 0.5350 - auroc:
0.49 - ETA: 15:53 - loss: 0.5348 - auroc: 0.49 - ETA: 15:51 - loss: 0.5344 - auroc: 0.49 - ETA: 15
:50 - loss: 0.5340 - auroc: 0.49 - ETA: 15:49 - loss: 0.5337 - auroc: 0.49 - ETA: 15:47 - loss: 0.
5337 - auroc:
```

[illegible]

```
: 0.49 - ETA: 11:03 - loss: 0.5004 - auroc: 0.49 - ETA: 11:02 - loss: 0.5001 - auroc: 0.49 - ETA
: 11:01 - loss: 0.5000 - auroc: 0.49 - ETA: 11:00 - loss: 0.5002 - auroc: 0.49 - ETA: 10:58 - loss
: 0.5001 - auroc: 0.49 - ETA: 10:57 - loss: 0.4999 - auroc: 0.49 - ETA: 10:56 - loss: 0.4998 - aur
oc: 0.49 - ETA: 10:54 - loss: 0.4997 - auroc: 0.49 - ETA: 10:53 - loss: 0.4997 - auroc: 0.49 - ETA
: 10:52 - loss: 0.4996 - auroc: 0.49 - ETA: 10:51 - loss: 0.4994 - auroc: 0.49 - ETA: 10:49 - loss
: 0.4992 - auroc: 0.49 - ETA: 10:48 - loss: 0.4988 - auroc: 0.49 - ETA: 10:47 - loss: 0.4988 - aur
oc: 0.49 - ETA: 10:45 - loss: 0.4987 - auroc: 0.49 - ETA: 10:44 - loss: 0.4986 - auroc: 0.49 - ETA
: 10:43 - loss: 0.4986 - auroc: 0.49 - ETA: 10:42 - loss: 0.4984 - auroc: 0.49 - ETA: 10:40 - loss
: 0.4983 - auroc: 0.49 - ETA: 10:39 - loss: 0.4983 - auroc: 0.49 - ETA: 10:38 - loss: 0.4982 - aur
oc: 0.49 - ETA: 10:37 - loss: 0.4979 - auroc: 0.49 - ETA: 10:36 - loss: 0.4978 - auroc: 0.49 - ETA
: 10:34 - loss: 0.4978 - auroc: 0.49 - ETA: 10:33 - loss: 0.4977 - auroc: 0.49 - ETA: 10:32 - loss
: 0.4977 - auroc: 0.49 - ETA: 10:31 - loss: 0.4976 - auroc: 0.49 - ETA: 10:29 - loss: 0.4974 - aur
oc: 0.49 - ETA: 10:28 - loss: 0.4974 - auroc: 0.49 - ETA: 10:27 - loss: 0.4974 - auroc: 0.49 - ETA
: 10:26 - loss: 0.4974 - auroc: 0.49 - ETA: 10:24 - loss: 0.4972 - auroc: 0.49 - ETA: 10:23 - loss
: 0.4971 - auroc: 0.49 - ETA: 10:22 - loss: 0.4969 - auroc: 0.49 - ETA: 10:21 - loss: 0.4968 - aur
oc: 0.49 - ETA: 10:19 - loss: 0.4967 - auroc: 0.49 - ETA: 10:18 - loss: 0.4967 - auroc: 0.49 - ETA
: 10:17 - loss: 0.4966 - auroc: 0.49 - ETA: 10:15 - loss: 0.4968 - auroc: 0.49 - ETA: 10:14 - loss
: 0.4969 - auroc: 0.49 - ETA: 10:13 - loss: 0.4967 - auroc: 0.49 - ETA: 10:12 - loss: 0.4968 - aur
oc: 0.49 - ETA: 10:10 - loss: 0.4966 - auroc: 0.49 - ETA: 10:09 - loss: 0.4964 - auroc: 0.49 - ETA
: 10:08 - loss: 0.4964 - auroc: 0.49 - ETA: 10:07 - loss: 0.4962 - auroc: 0.49 - ETA: 10:05 - loss
: 0.4960 - auroc: 0.49 - ETA: 10:04 - loss: 0.4960 - auroc: 0.49 - ETA: 10:03 - loss: 0.4958 - aur
oc: 0.49 - ETA: 10:01 - loss: 0.4957 - auroc: 0.49 - ETA: 10:00 - loss: 0.4956 - auroc: 0.49 - ETA
: 9:59 - loss: 0.4954 - auroc: 0.4980 - ETA: 9:58 - loss: 0.4952 - auroc: 0.497 - ETA: 9:56 - loss
: 0.4952 - auroc: 0.497 - ETA: 9:55 - loss: 0.4951 - auroc: 0.497 - ETA: 9:54 - loss: 0.4951 - aur
oc: 0.497 - ETA: 9:53 - loss: 0.4952 - auroc: 0.498 - ETA: 9:51 - loss: 0.4951 - auroc: 0.498 - ET
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: 0.4948 - auroc: 0.498 - ETA: 9:46 - loss: 0.4949 - auroc: 0.498 - ETA: 9:45 - loss: 0.4949 - aur
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```

```

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2 - ETA: 56s - loss: 0.4650 - auroc: 0.52 - ETA: 55s - loss: 0.4649 - auroc: 0.52 - ETA: 54s - los  
s: 0.4648 - auroc: 0.52 - ETA: 53s - loss: 0.4648 - auroc: 0.52 - ETA: 51s - loss: 0.4648 - auroc:  
0.52 - ETA: 50s - loss: 0.4648 - auroc: 0.52 - ETA: 49s - loss: 0.4647 - auroc: 0.52 - ETA: 48s -  
loss: 0.4646 - auroc: 0.52 - ETA: 47s - loss: 0.4647 - auroc: 0.52 - ETA: 45s - loss: 
```

Epoch 00001: val_loss improved from inf to 0.40803, saving model to model_1.h5

Epoch 2/20

12416/76473 [==>.....] - ETA: 24:02 - loss: 0.4564 - auroc: 0.53 - ETA: 24:4
9 - loss: 0.3458 - auroc: 0.63 - ETA: 24:29 - loss: 0.3653 - auroc: 0.65 - ETA: 24:18 - loss: 0.36
31 - auroc: 0.66 - ETA: 24:24 - loss: 0.3611 - auroc: 0.68 - ETA: 24:25 - loss: 0.3687 - auroc: 0.
68 - ETA: 24:28 - loss: 0.3927 - auroc: 0.65 - ETA: 24:25 - loss: 0.3853 - auroc: 0.66 - ETA: 24:2
5 - loss: 0.3718 - auroc: 0.66 - ETA: 24:26 - loss: 0.3744 - auroc: 0.68 - ETA: 24:21 - loss: 0.37
82 - auroc: 0.69 - ETA: 24:17 - loss: 0.3847 - auroc: 0.69 - ETA: 24:14 - loss: 0.3925 - auroc: 0.
68 - ETA: 24:12 - loss: 0.3880 - auroc: 0.66 - ETA: 24:12 - loss: 0.3896 - auroc: 0.66 - ETA: 24:1
1 - loss: 0.3903 - auroc: 0.67 - ETA: 24:07 - loss: 0.3878 - auroc: 0.67 - ETA: 24:06 - loss: 0.38
69 - auroc: 0.67 - ETA: 24:05 - loss: 0.3860 - auroc: 0.67 - ETA: 24:04 - loss: 0.3881 - auroc: 0.
67 - ETA: 24:03 - loss: 0.3949 - auroc: 0.68 - ETA: 24:03 - loss: 0.3963 - auroc: 0.68 - ETA: 24:0
1 - loss: 0.4022 - auroc: 0.68 - ETA: 23:58 - loss: 0.3996 - auroc: 0.68 - ETA: 23:56 - loss: 0.39
92 - auroc: 0.69 - ETA: 23:56 - loss: 0.3994 - auroc: 0.68 - ETA: 23:54 - loss: 0.4029 - auroc: 0.
68 - ETA: 23:52 - loss: 0.4059 - auroc: 0.68 - ETA: 23:51 - loss: 0.4013 - auroc: 0.68 - ETA: 23:4
8 - loss: 0.3991 - auroc: 0.68 - ETA: 23:46 - loss: 0.3983 - auroc: 0.68 - ETA: 23:45 - loss: 0.39
94 - auroc: 0.67 - ETA: 23:43 - loss: 0.4003 - auroc: 0.67 - ETA: 23:43 - loss: 0.4004 - auroc: 0.
67 - ETA: 23:41 - loss: 0.4025 - auroc: 0.67 - ETA: 23:39 - loss: 0.4029 - auroc: 0.67 - ETA: 23:3
7 - loss: 0.4021 - auroc: 0.67 - ETA: 23:35 - loss: 0.4028 - auroc: 0.67 - ETA: 23:34 - loss: 0.40
33 - auroc: 0.67 - ETA: 23:33 - loss: 0.4031 - auroc: 0.67 - ETA: 23:33 - loss: 0.4011 - auroc: 0.
67 - ETA: 23:35 - loss: 0.4007 - auroc: 0.67 - ETA: 23:34 - loss: 0.4013 - auroc: 0.67 - ETA: 23:3
3 - loss: 0.3993 - auroc: 0.67 - ETA: 23:31 - loss: 0.4000 - auroc: 0.67 - ETA: 23:30 - loss: 0.40
00 - auroc: 0.67 - ETA: 23:30 - loss: 0.3974 - auroc: 0.67 - ETA: 23:28 - loss: 0.3984 - auroc: 0.
67 - ETA: 23:27 - loss: 0.3989 - auroc: 0.67 - ETA: 23:25 - loss: 0.3991 - auroc: 0.67 - ETA: 23:2
5 - loss: 0.3987 - auroc: 0.67 - ETA: 23:24 - loss: 0.3975 - auroc: 0.67 - ETA: 23:22 - loss: 0.39
86 - auroc: 0.68 - ETA: 23:20 - loss: 0.3966 - auroc: 0.68 - ETA: 23:20 - loss: 0.3958 - auroc: 0.
68 - ETA: 23:18 - loss: 0.3948 - auroc: 0.68 - ETA: 23:17 - loss: 0.3958 - auroc: 0.68 - ETA: 23:1
5 - loss: 0.3956 - auroc: 0.68 - ETA: 23:14 - loss: 0.3960 - auroc: 0.68 - ETA: 23:12 - loss: 0.39
46 - auroc: 0.68 - ETA: 23:10 - loss: 0.3940 - auroc: 0.68 - ETA: 23:09 - loss: 0.3922 - auroc: 0.
68 - ETA: 23:08 - loss: 0.3941 - auroc: 0.68 - ETA: 23:07 - loss: 0.3949 - auroc: 0.68 - ETA: 23:0
5 - loss: 0.3953 - auroc: 0.68 - ETA: 23:04 - loss: 0.3950 - auroc: 0.68 - ETA: 23:03 - loss: 0.39
31 - auroc: 0.68 - ETA: 23:02 - loss: 0.3937 - auroc: 0.68 - ETA: 23:00 - loss: 0.3951 - auroc: 0.
68 - ETA: 22:59 - loss: 0.3943 - auroc: 0.68 - ETA: 22:58 - loss: 0.3962 - auroc: 0.68 - ETA: 22:5
6 - loss: 0.3950 - auroc: 0.68 - ETA: 22:55 - loss: 0.3956 - auroc: 0.68 - ETA: 22:53 - loss: 0.39
43 - auroc: 0.68 - ETA: 22:53 - loss: 0.3922 - auroc: 0.67 - ETA: 22:51 - loss: 0.3904 - auroc: 0.
67 - ETA: 22:50 - loss: 0.3910 - auroc: 0.67 - ETA: 22:48 - loss: 0.3889 - auroc: 0.67 - ETA: 22:4
6 - loss: 0.3898 - auroc: 0.68 - ETA: 22:45 - loss: 0.3923 - auroc: 0.68 - ETA: 22:43 - loss: 0.39
19 - auroc: 0.68 - ETA: 22:41 - loss: 0.3915 - auroc: 0.68 - ETA: 22:40 - loss: 0.3911 - auroc: 0.
68 - ETA: 22:38 - loss: 0.3929 - auroc: 0.68 - ETA: 22:37 - loss: 0.3946 - auroc: 0.68 - ETA: 22:3
5 - loss: 0.3972 - auroc: 0.68 - ETA: 22:34 - loss: 0.3986 - auroc: 0.68 - ETA: 22:32 - loss: 0.39
82 - auroc: 0.68 - ETA: 22:31 - loss: 0.3989 - auroc: 0.68 - ETA: 22:29 - loss: 0.4003 - auroc: 0.
68 - ETA: 22:28 - loss: 0.3995 - auroc: 0.68 - ETA: 22:27 - loss: 0.3979 - auroc: 0.67 - ETA: 22:2
6 - loss: 0.3974 - auroc: 0.67 - ETA: 22:24 - loss: 0.3972 - auroc: 0.67 - ETA: 22:23 - loss: 0.39
73 - auroc: 0.67 - ETA: 22:22 - loss: 0.3969 - auroc: 0.67 - ETA: 22:20 - loss: 0.3969 - auroc: 0.
67 - ETA: 22:19 - loss: 0.3979 - auroc: 0.67 - ETA: 22:17 - loss: 0.3991 - auroc: 0.67 - ETA: 22:1
6 - loss: 0.4010 - auroc: 0.67 - ETA: 22:15 - loss: 0.4009 - auroc: 0.67 - ETA: 22:14 - loss: 0.40
02 - auroc: 0.67 - ETA: 22:13 - loss: 0.4000 - auroc: 0.67 - ETA: 22:11 - loss: 0.4002 - auroc: 0.
67 - ETA: 22:10 - loss: 0.4001 - auroc: 0.67 - ETA: 22:09 - loss: 0.4008 - auroc: 0.67 - ETA: 22:0
7 - loss: 0.4021 - auroc: 0.67 - ETA: 22:07 - loss: 0.4017 - auroc: 0.67 - ETA: 22:05 - loss: 0.40
12 - auroc: 0.67 - ETA: 22:04 - loss: 0.4009 - auroc: 0.67 - ETA: 22:03 - loss: 0.4014 - auroc: 0.
67 - ETA: 22:01 - loss: 0.4022 - auroc: 0.67 - ETA: 22:00 - loss: 0.4014 - auroc: 0.67 - ETA: 21:5
9 - loss: 0.4015 - auroc: 0.67 - ETA: 21:58 - loss: 0.4028 - auroc: 0.66 - ETA: 21:57 - loss: 0.40
24 - auroc: 0.66 - ETA: 21:56 - loss: 0.4024 - auroc: 0.66 - ETA: 21:54 - loss: 0.4025 - auroc: 0.
66 - ETA: 21:53 - loss: 0.4022 - auroc: 0.66 - ETA: 21:51 - loss: 0.4023 - auroc: 0.66 - ETA: 21:5
0 - loss: 0.4027 - auroc: 0.67 - ETA: 21:49 - loss: 0.4025 - auroc: 0.67 - ETA: 21:47 - loss: 0.40
28 - auroc: 0.67 - ETA: 21:46 - loss: 0.4025 - auroc: 0.66 - ETA: 21:45 - loss: 0.4025 - auroc: 0.
67 - ETA: 21:43 - loss: 0.4026 - auroc: 0.66 - ETA: 21:43 - loss: 0.4022 - auroc: 0.67 - ETA: 21:4
2 - loss: 0.4021 - auroc: 0.67 - ETA: 21:41 - loss: 0.4025 - auroc: 0.67 - ETA: 21:39 - loss: 0.40
15 - auroc: 0.67 - ETA: 21:38 - loss: 0.4004 - auroc: 0.67 - ETA: 21:37 - loss: 0.4000 - auroc: 0.
67 - ETA: 21:35 - loss: 0.4004 - auroc: 0.67 - ETA: 21:34 - loss: 0.4006 - auroc: 0.67 - ETA: 21:3
3 - loss: 0.4004 - auroc: 0.67 - ETA: 21:31 - loss: 0.4005 - auroc: 0.67 - ETA: 21:30 - loss: 0.40
22 - auroc: 0.67 - ETA: 21:29 - loss: 0.4019 - auroc: 0.67 - ETA: 21:27 - loss: 0.4017 - auroc: 0.
67 - ETA: 21:27 - loss: 0.4020 - auroc: 0.67 - ETA: 21:26 - loss: 0.4024 - auroc: 0.67 - ETA: 21:2
4 - loss: 0.4027 - auroc: 0.67 - ETA: 21:23 - loss: 0.4025 - auroc: 0.67 - ETA: 21:22 - loss: 0.40
18 - auroc: 0.67 - ETA: 21:21 - loss: 0.4019 - auroc: 0.67 - ETA: 21:20 - loss: 0.4020 - auroc: 0.
67 - ETA: 21:19 - loss: 0.4022 - auroc: 0.67 - ETA: 21:17 - loss: 0.4029 - auroc: 0.67 - ETA: 21:1
6 - loss: 0.4035 - auroc: 0.67 - ETA: 21:15 - loss: 0.4030 - auroc: 0.67 - ETA: 21:14 - loss: 0.40
33 - auroc: 0.67 - ETA: 21:13 - loss: 0.4030 - auroc: 0.67 - ETA: 21:12 - loss: 0.4038 - auroc: 0.
67 - ETA: 21:11 - loss: 0.4034 - auroc: 0.67 - ETA: 21:09 - loss: 0.4033 - auroc: 0.67 - ETA: 21:0
8 - loss: 0.4033 - auroc: 0.67 - ETA: 21:07 - loss: 0.4037 - auroc: 0.67 - ETA: 21:06 - loss: 0.40
40 - auroc: 0.67 - ETA: 21:04 - loss: 0.4031 - auroc: 0.67 - ETA: 21:03 - loss: 0.4022 - auroc: 0.
67 - ETA: 21:01 - loss: 0.4022 - auroc: 0.67 - ETA: 21:00 - loss: 0.4009 - auroc: 0.67 - ETA: 20:5
9 - loss: 0.4007 - auroc: 0.67 - ETA: 20:58 - loss: 0.4012 - auroc: 0.67 - ETA: 20:56 - loss: 0.40
08 - auroc: 0.67 - ETA: 20:55 - loss: 0.4002 - auroc: 0.67 - ETA: 20:54 - loss: 0.4003 - auroc: 0.
67 - ETA: 20:52 - loss: 0.4004 - auroc: 0.67 - ETA: 20:51 - loss: 0.3998 - auroc: 0.67 - ETA: 20:5
0 - loss: 0.4002 - auroc: 0.67 - ETA: 20:48 - loss: 0.3998 - auroc: 0.67 - ETA: 20:47 - loss: 0.39
92 - auroc: 0.67 - ETA: 20:46 - loss: 0.3993 - auroc: 0.67 - ETA: 20:45 - loss: 0.3994 - auroc: 0.

```

76 - ETA: 20:44 - loss: 0.3994 - auroc: 0.67 - ETA: 20:43 - loss: 0.3998 - auroc: 0.67 - ETA: 20:4
1 - loss: 0.3995 - auroc: 0.67 - ETA: 20:40 - loss: 0.3993 - auroc: 0.67 - ETA: 20:39 - loss: 0.39
96 - auroc: 0.67 - ETA: 20:38 - loss: 0.3996 - auroc: 0.67 - ETA: 20:37 - loss: 0.3994 - auroc: 0.
67 - ETA: 20:35 - loss: 0.3994 - auroc: 0.67 - ETA: 20:34 - loss: 0.3988 - auroc: 0.67 - ETA: 20:3
3 - loss: 0.3982 - auroc: 0.67 - ETA: 20:31 - loss: 0.3991 - auroc: 0.67 - ETA: 20:30 - loss: 0.39
95 - auroc: 0.67 - ETA: 20:29 - loss: 0.3993 - auroc: 0.67 - ETA: 20:28 - loss: 0.3993 - auroc: 0.
67 - ETA: 20:26 - loss: 0.3989 - auroc: 0.67 - ETA: 20:25 - loss: 0.3993 - auroc: 0.67 - ETA: 20:2
4 - loss: 0.3996 - auroc: 0.67 - ETA: 20:23 - loss: 0.3993 - auroc: 0.67 - ETA: 20:21 - loss: 0.39
96 - auroc: 0.67 - ETA: 20:20 - loss: 0.3999 - auroc: 0.674524832/76473
[=====>.....] - ETA: 20:19 - loss: 0.3999 - auroc: 0.67 - ETA: 20:17 - loss: 0.
3994 - auroc: 0.67 - ETA: 20:16 - loss: 0.3996 - auroc: 0.67 - ETA: 20:15 - loss: 0.3993 - auroc:
0.67 - ETA: 20:14 - loss: 0.3985 - auroc: 0.67 - ETA: 20:12 - loss: 0.3982 - auroc: 0.67 - ETA: 20
:11 - loss: 0.3982 - auroc: 0.67 - ETA: 20:10 - loss: 0.3984 - auroc: 0.67 - ETA: 20:09 - loss: 0.
3984 - auroc: 0.67 - ETA: 20:08 - loss: 0.3984 - auroc: 0.67 - ETA: 20:06 - loss: 0.3982 - auroc:
0.67 - ETA: 20:05 - loss: 0.3983 - auroc: 0.67 - ETA: 20:04 - loss: 0.3980 - auroc: 0.67 - ETA: 20
:03 - loss: 0.3975 - auroc: 0.67 - ETA: 20:01 - loss: 0.3972 - auroc: 0.67 - ETA: 20:00 - loss: 0.
3973 - auroc: 0.67 - ETA: 19:59 - loss: 0.3976 - auroc: 0.67 - ETA: 19:58 - loss: 0.3977 - auroc:
0.67 - ETA: 19:57 - loss: 0.3976 - auroc: 0.67 - ETA: 19:55 - loss: 0.3977 - auroc: 0.67 - ETA: 19
:54 - loss: 0.3972 - auroc: 0.67 - ETA: 19:54 - loss: 0.3972 - auroc: 0.67 - ETA: 19:52 - loss: 0.
3973 - auroc: 0.67 - ETA: 19:51 - loss: 0.3978 - auroc: 0.67 - ETA: 19:50 - loss: 0.3979 - auroc:
0.67 - ETA: 19:48 - loss: 0.3982 - auroc: 0.67 - ETA: 19:47 - loss: 0.3984 - auroc: 0.67 - ETA: 19
:46 - loss: 0.3989 - auroc: 0.67 - ETA: 19:44 - loss: 0.3990 - auroc: 0.67 - ETA: 19:43 - loss: 0.
3989 - auroc: 0.67 - ETA: 19:42 - loss: 0.3992 - auroc: 0.67 - ETA: 19:41 - loss: 0.3996 - auroc:
0.67 - ETA: 19:39 - loss: 0.3995 - auroc: 0.67 - ETA: 19:38 - loss: 0.3993 - auroc: 0.67 - ETA: 19
:37 - loss: 0.3990 - auroc: 0.67 - ETA: 19:35 - loss: 0.3987 - auroc: 0.67 - ETA: 19:34 - loss: 0.
3987 - auroc: 0.67 - ETA: 19:33 - loss: 0.3988 - auroc: 0.67 - ETA: 19:32 - loss: 0.3995 - auroc:
0.67 - ETA: 19:30 - loss: 0.3991 - auroc: 0.67 - ETA: 19:29 - loss: 0.3994 - auroc: 0.67 - ETA: 19
:28 - loss: 0.3991 - auroc: 0.67 - ETA: 19:26 - loss: 0.3989 - auroc: 0.67 - ETA: 19:25 - loss: 0.
3990 - auroc: 0.67 - ETA: 19:24 - loss: 0.3987 - auroc: 0.67 - ETA: 19:23 - loss: 0.3985 - auroc:
0.67 - ETA: 19:22 - loss: 0.3985 - auroc: 0.67 - ETA: 19:21 - loss: 0.3979 - auroc: 0.67 - ETA: 19
:19 - loss: 0.3979 - auroc: 0.67 - ETA: 19:18 - loss: 0.3976 - auroc: 0.67 - ETA: 19:17 - loss: 0.
3978 - auroc: 0.67 - ETA: 19:16 - loss: 0.3978 - auroc: 0.67 - ETA: 19:15 - loss: 0.3984 - auroc:
0.67 - ETA: 19:13 - loss: 0.3981 - auroc: 0.67 - ETA: 19:12 - loss: 0.3980 - auroc: 0.67 - ETA: 19
:11 - loss: 0.3979 - auroc: 0.67 - ETA: 19:10 - loss: 0.3984 - auroc: 0.67 - ETA: 19:08 - loss: 0.
3979 - auroc: 0.67 - ETA: 19:07 - loss: 0.3978 - auroc: 0.67 - ETA: 19:06 - loss: 0.3976 - auroc:
0.67 - ETA: 19:05 - loss: 0.3970 - auroc: 0.67 - ETA: 19:03 - loss: 0.3975 - auroc: 0.67 - ETA: 19
:02 - loss: 0.3973 - auroc: 0.67 - ETA: 19:01 - loss: 0.3967 - auroc: 0.67 - ETA: 19:00 - loss: 0.
3967 - auroc: 0.67 - ETA: 18:58 - loss: 0.3970 - auroc: 0.67 - ETA: 18:57 - loss: 0.3969 - auroc:
0.67 - ETA: 18:56 - loss: 0.3972 - auroc: 0.67 - ETA: 18:55 - loss: 0.3976 - auroc: 0.67 - ETA: 18
:53 - loss: 0.3983 - auroc: 0.67 - ETA: 18:52 - loss: 0.3983 - auroc: 0.67 - ETA: 18:51 - loss: 0.
3979 - auroc: 0.67 - ETA: 18:50 - loss: 0.3978 - auroc: 0.67 - ETA: 18:49 - loss: 0.3976 - auroc:
0.67 - ETA: 18:47 - loss: 0.3979 - auroc: 0.67 - ETA: 18:46 - loss: 0.3979 - auroc: 0.67 - ETA: 18
:45 - loss: 0.3979 - auroc: 0.67 - ETA: 18:44 - loss: 0.3979 - auroc: 0.67 - ETA: 18:42 - loss: 0.
3979 - auroc: 0.67 - ETA: 18:41 - loss: 0.3980 - auroc: 0.67 - ETA: 18:40 - loss: 0.3980 - auroc:
0.67 - ETA: 18:39 - loss: 0.3979 - auroc: 0.67 - ETA: 18:37 - loss: 0.3976 - auroc: 0.67 - ETA: 18
:36 - loss: 0.3978 - auroc: 0.67 - ETA: 18:35 - loss: 0.3977 - auroc: 0.67 - ETA: 18:34 - loss: 0.
3976 - auroc: 0.67 - ETA: 18:32 - loss: 0.3979 - auroc: 0.67 - ETA: 18:31 - loss: 0.3981 - auroc:
0.67 - ETA: 18:30 - loss: 0.3978 - auroc: 0.67 - ETA: 18:29 - loss: 0.3976 - auroc: 0.67 - ETA: 18
:27 - loss: 0.3974 - auroc: 0.67 - ETA: 18:26 - loss: 0.3978 - auroc: 0.67 - ETA: 18:25 - loss: 0.
3974 - auroc: 0.67 - ETA: 18:24 - loss: 0.3977 - auroc: 0.67 - ETA: 18:23 - loss: 0.3977 - auroc:
0.67 - ETA: 18:21 - loss: 0.3979 - auroc: 0.67 - ETA: 18:20 - loss: 0.3982 - auroc: 0.67 - ETA: 18
:19 - loss: 0.3982 - auroc: 0.68 - ETA: 18:17 - loss: 0.3982 - auroc: 0.67 - ETA: 18:16 - loss: 0.
3981 - auroc: 0.67 - ETA: 18:15 - loss: 0.3984 - auroc: 0.67 - ETA: 18:14 - loss: 0.3982 - auroc:
0.67 - ETA: 18:13 - loss: 0.3981 - auroc: 0.67 - ETA: 18:11 - loss: 0.3976 - auroc: 0.67 - ETA: 18
:10 - loss: 0.3978 - auroc: 0.67 - ETA: 18:09 - loss: 0.3979 - auroc: 0.67 - ETA: 18:08 - loss: 0.
3985 - auroc: 0.67 - ETA: 18:07 - loss: 0.3983 - auroc: 0.67 - ETA: 18:06 - loss: 0.3985 - auroc:
0.67 - ETA: 18:04 - loss: 0.3992 - auroc: 0.67 - ETA: 18:03 - loss: 0.3994 - auroc: 0.67 - ETA: 18
:02 - loss: 0.3995 - auroc: 0.67 - ETA: 18:01 - loss: 0.3994 - auroc: 0.67 - ETA: 18:00 - loss: 0.
3991 - auroc: 0.67 - ETA: 17:58 - loss: 0.3990 - auroc: 0.67 - ETA: 17:57 - loss: 0.3989 - auroc:
0.68 - ETA: 17:56 - loss: 0.3988 - auroc: 0.68 - ETA: 17:55 - loss: 0.3987 - auroc: 0.68 - ETA: 17
:54 - loss: 0.3987 - auroc: 0
```

[illegible]

[illegible]

```
ETA: 9:51 - loss: 0.3952 - auROC: 0.696 - ETA: 9:50 - loss: 0.3954 - auROC: 0.697 - ETA: 9:49 - lo
ss: 0.3956 - auROC: 0.697 - ETA: 9:48 - loss: 0.3956 - auROC: 0.697 - ETA: 9:46 - loss: 0.3956 - a
uroc: 0.697 - ETA: 9:45 - loss: 0.3956 - auROC: 0.697 - ETA: 9:44 - loss: 0.3955 - auROC: 0.697 -
ETA: 9:43 - loss: 0.3954 - auROC: 0.697 - ETA: 9:42 - loss: 0.3954 - auROC: 0.697 - ETA: 9:40 - lo
ss: 0.3956 - auROC: 0.696 - ETA: 9:39 - loss: 0.3957 - auROC: 0.697 - ETA: 9:38 - loss: 0.3957 - a
uroc: 0.697 - ETA: 9:37 - loss: 0.3957 - auROC: 0.697 - ETA: 9:36 - loss: 0.3956 - auROC: 0.697 -
ETA: 9:34 - loss: 0.3955 - auROC: 0.697 - ETA: 9:33 - loss: 0.3956 - auROC: 0.697 - ETA: 9:32 - lo
ss: 0.3955 - auROC: 0.697 - ETA: 9:31 - loss: 0.3956 - auROC: 0.697 - ETA: 9:29 - loss: 0.3956 - a
uroc: 0.697 - ETA: 9:28 - loss: 0.3957 - auROC: 0.697 - ETA: 9:27 - loss: 0.3957 - auROC: 0.697 -
ETA: 9:26 - loss: 0.3957 - auROC: 0.697 - ETA: 9:25 - loss: 0.3957 - auROC: 0.697 - ETA: 9:23 - lo
ss: 0.3956 - auROC: 0.697 - ETA: 9:22 - loss: 0.3957 - auROC: 0.697 - ETA: 9:21 - loss: 0.3957 - a
uroc: 0.697 - ETA: 9:20 - loss: 0.3958 - auROC: 0.697 - ETA: 9:19 - loss: 0.3956 - auROC: 0.697 -
ETA: 9:17 - loss: 0.3957 - auROC: 0.697 - ETA: 9:16 - loss: 0.3957 - auROC: 0.697 - ETA: 9:15 - lo
ss: 0.3958 - auROC: 0.697 - ETA: 9:14 - loss: 0.3958 - auROC: 0.697 - ETA: 9:13 - loss: 0.3959 - a
uroc: 0.697 - ETA: 9:11 - loss: 0.3961 - auROC: 0.697 - ETA: 9:10 - loss: 0.3960 - auROC: 0.697 -
ETA: 9:09 - loss: 0.3962 - auROC: 0.697 - ETA: 9:08 - loss: 0.3961 - auROC: 0.697 - ETA: 9:06 - lo
ss: 0.3959 - auROC: 0.697 - ETA: 9:05 - loss: 0.3959 - auROC: 0.697 - ETA: 9:04 - loss: 0.3958 - a
uroc: 0.698 - ETA: 9:03 - loss: 0.3958 - auROC: 0.698 - ETA: 9:02 - loss: 0.3959 - auROC: 0.697 -
ETA: 9:00 - loss: 0.3959 - auROC: 0.698 - ETA: 8:59 - loss: 0.3959 - auROC: 0.697 - ETA: 8:58 - lo
ss: 0.3959 - auROC: 0.697 - ETA: 8:57 - loss: 0.3960 - auROC: 0.697 - ETA: 8:55 - loss: 0.3958 - a
uroc: 0.697 - ETA: 8:54 - loss: 0.3959 - auROC: 0.697 - ETA: 8:53 - loss: 0.3960 - auROC: 0.697 -
ETA: 8:52 - loss: 0.3959 - auROC: 0.697 - ETA: 8:51 - loss: 0.3960 - auROC: 0.698 - ETA: 8:49 - lo
ss: 0.3960 - auROC: 0.698 - ETA: 8:48 - loss: 0.3958 - auROC: 0.698 - ETA: 8:47 - loss: 0.3959 - a
uroc: 0.698 - ETA: 8:46 - loss: 0.3957 - auROC: 0.698 - ETA: 8:44 - loss: 0.3957 - auROC: 0.698 -
ETA: 8:43 - loss: 0.3957 - auROC: 0.698 - ETA: 8:42 - loss: 0.3959 - auROC: 0.698 - ETA: 8:41 - lo
ss: 0.3960 - auROC: 0.698 - ETA: 8:39 - loss: 0.3961 - auROC: 0.698 - ETA: 8:38 - loss: 0.3962 - a
uroc: 0.698 - ETA: 8:37 - loss: 0.3960 - auROC: 0.698 - ETA: 8:36 - loss: 0.3961 - auROC: 0.698 -
ETA: 8:35 - loss: 0.3961 - auROC: 0.698 - ETA: 8:33 - loss: 0.3961 - auROC: 0.698 - ETA: 8:32 - lo
ss: 0.3962 - auROC: 0.698 - ETA: 8:31 - loss: 0.3961 - auROC: 0.698562080/76473
[=====>.....] - ETA: 8:30 - loss: 0.3960 - auROC: 0.698 - ETA: 8:29 - loss: 0.3
960 - auROC: 0.698 - ETA: 8:27 - loss: 0.3958 - auROC: 0.699 - ETA: 8:26 - loss: 0.3958 - auROC: 0
.699 - ETA: 8:25 - loss: 0.3958 - auROC: 0.699 - ETA: 8:24 - loss: 0.3957 - auROC: 0.699 - ETA: 8:
22 - loss: 0.3958 - auROC: 0.699 - ETA: 8:21 - loss: 0.3957 - auROC: 0.699 - ETA: 8:20 - loss: 0.3
956 - auROC: 0.699 - ETA: 8:19 - loss: 0.3955 - auROC: 0.699 - ETA: 8:18 - loss: 0.3954 - auROC: 0
.699 - ETA: 8:16 - loss: 0.3953 - auROC: 0.699 - ETA: 8:15 - loss: 0.3952 - auROC: 0.699 - ETA: 8:
14 - loss: 0.3952 - auROC: 0.699 - ETA: 8:13 - loss: 0.3951 - auROC: 0.699 - ETA: 8:11 - loss: 0.3
951 - auROC: 0.699 - ETA: 8:10 - loss: 0.3949 - auROC: 0.699 - ETA: 8:09 - loss: 0.3949 - auROC: 0
.699 - ETA: 8:08 - loss: 0.3948 - auROC: 0.700 - ETA: 8:07 - loss: 0.3950 - auROC: 0.700 - ETA: 8:
05 - loss: 0.3950 - auROC: 0.699 - ETA: 8:04 - loss: 0.3950 - auROC: 0.699 - ETA: 8:03 - loss: 0.3
950 - auROC: 0.699 - ETA: 8:02 - loss: 0.3950 - auROC: 0.700 - ETA: 8:00 - loss: 0.3948 - auROC: 0
.700 - ETA: 7:59 - loss: 0.3950 - auROC: 0.700 - ETA: 7:58 - loss: 0.3950 - auROC: 0.700 - ETA: 7:
57 - loss: 0.3950 - auROC: 0.700 - ETA: 7:56 - loss: 0.3952 - auROC: 0.700 - ETA: 7:54 - loss: 0.3
951 - auROC: 0.700 - ETA: 7:53 - loss: 0.3953 - auROC: 0.700 - ETA: 7:52 - loss: 0.3954 - auROC: 0
.700 - ETA: 7:51 - loss: 0.3955 - auROC: 0.700 - ETA: 7:49 - loss: 0.3955 - auROC: 0.700 - ETA: 7:
48 - loss: 0.3955 - auROC: 0.700 - ETA: 7:47 - loss: 0.3953 - auROC: 0.700 - ETA: 7:46 - loss: 0.3
952 - auROC: 0.700 - ETA: 7:45 - loss: 0.3953 - auROC: 0.700 - ETA: 7:43 - loss: 0.3954 - auROC: 0
.700 - ETA: 7:42 - loss: 0.3953 - auROC: 0.700 - ETA: 7:41 - loss: 0.3953 - auROC: 0.700 - ETA: 7:
40 - loss: 0.3954 - auROC: 0.700 - ETA: 7:38 - loss: 0.3953 - auROC: 0.701 - ETA: 7:37 - loss: 0.3
953 - auROC: 0.701 - ETA: 7:36 - loss: 0.3953 - auROC: 0.701 - ETA: 7:35 - loss: 0.3952 - auROC: 0
.701 - ETA: 7:34 - loss: 0.3951 - auROC: 0.701 - ETA: 7:32 - loss: 0.3951 - auROC: 0.701 - ETA: 7:
31 - loss: 0.3951 - auROC: 0.701 - ETA: 7:30 - loss: 0.3950 - auROC: 0.701 - ETA: 7:29 - loss: 0.3
949 - auROC: 0.701 - ETA: 7:27 - loss: 0.3950 - auROC: 0.701 - ETA: 7:26 - loss: 0.3950 - auROC: 0
.701 - ETA: 7:25 - loss: 0.3950 - auROC: 0.701 - ETA: 7:24 - loss: 0.3949 - auROC: 0.701 - ETA: 7:
23 - loss: 0.3948 - auROC: 0.701 - ETA: 7:21 - loss: 0.3948 - auROC: 0.701 - ETA: 7:20 - loss: 0.3
949 - auROC: 0.701 - ETA: 7:19 - loss: 0.3951 - auROC: 0.701 - ETA: 7:18 - loss: 0.3949 - auROC: 0
.701 - ETA: 7:17 - loss: 0.3948 - auROC: 0.701 - ETA: 7:15 - loss: 0.3948 - auROC: 0.701 - ETA: 7:
14 - loss: 0.3949 - auROC: 0.701 - ETA: 7:13 - loss: 0.3949 - auROC: 0.701 - ETA: 7:12 - loss: 0.3
948 - auROC: 0.702 - ETA: 7:10 - loss: 0.3948 - auROC: 0.702 - ETA: 7:09 - loss: 0.3949 - auROC: 0
.702 - ETA: 7:08 - loss: 0.3950 - auROC: 0.702 - ETA: 7:07 - loss: 0.3950 - auROC: 0.702 - ETA: 7:
06 - loss: 0.3949 - auROC: 0.702 - ETA: 7:04 - loss: 0.3948 - auROC: 0.702 - ETA: 7:03 - loss: 0.3
947 - auROC: 0.702 - ETA: 7:02 - loss: 0.3947 - auROC: 0.702 - ETA: 7:01 - loss: 0.3946 - auROC: 0
.702 - ETA: 6:59 - loss: 0.3947 - auROC: 0.702 - ETA: 6:58 - loss: 0.3946 - au
```

[illegible]

```
0.704 - ETA: 2:36 - loss: 0.3949 - auROC: 0.704 - ETA: 2:35 - loss: 0.3950 - auROC: 0.704 - ETA: 2
:33 - loss: 0.3951 - auROC: 0.704 - ETA: 2:32 - loss: 0.3951 - auROC: 0.704 - ETA: 2:31 - loss: 0.
3950 - auROC: 0.704 - ETA: 2:30 - loss: 0.3949 - auROC: 0.704 - ETA: 2:28 - loss: 0.3950 - auROC:
0.704 - ETA: 2:27 - loss: 0.3950 - auROC: 0.705 - ETA: 2:26 - loss: 0.3950 - auROC: 0.705 - ETA: 2
:25 - loss: 0.3951 - auROC: 0.705 - ETA: 2:24 - loss: 0.3951 - auROC: 0.705 - ETA: 2:22 - loss: 0.
3951 - auROC: 0.705 - ETA: 2:21 - loss: 0.3950 - auROC: 0.705 - ETA: 2:20 - loss: 0.3948 - auROC:
0.705 - ETA: 2:19 - loss: 0.3947 - auROC: 0.705 - ETA: 2:17 - loss: 0.3947 - auROC: 0.705 - ETA: 2
:16 - loss: 0.3947 - auROC: 0.705 - ETA: 2:15 - loss: 0.3946 - auROC: 0.705 - ETA: 2:14 - loss: 0.
3947 - auROC: 0.705 - ETA: 2:13 - loss: 0.3947 - auROC: 0.705 - ETA: 2:11 - loss: 0.3947 - auROC:
0.705 - ETA: 2:10 - loss: 0.3947 - auROC: 0.705 - ETA: 2:09 - loss: 0.3947 - auROC: 0.705 - ETA: 2
:08 - loss: 0.3946 - auROC: 0.705 - ETA: 2:06 - loss: 0.3947 - auROC: 0.705 - ETA: 2:05 - loss: 0.
3947 - auROC: 0.705 - ETA: 2:04 - loss: 0.3947 - auROC: 0.705 - ETA: 2:03 - loss: 0.3948 - auROC:
0.705 - ETA: 2:02 - loss: 0.3948 - auROC: 0.705 - ETA: 2:00 - loss: 0.3947 - auROC: 0.705 - ETA: 1
:59 - loss: 0.3946 - auROC: 0.705 - ETA: 1:58 - loss: 0.3946 - auROC: 0.705 - ETA: 1:57 - loss: 0.
3946 - auROC: 0.705 - ETA: 1:55 - loss: 0.3946 - auROC: 0.705 - ETA: 1:54 - loss: 0.3945 - auROC:
0.705 - ETA: 1:53 - loss: 0.3945 - auROC: 0.705 - ETA: 1:52 - loss: 0.3944 - auROC: 0.705 - ETA: 1
:51 - loss: 0.3944 - auROC: 0.706 - ETA: 1:49 - loss: 0.3943 - auROC: 0.706 - ETA: 1:48 - loss: 0.
3943 - auROC: 0.706 - ETA: 1:47 - loss: 0.3943 - auROC: 0.706 - ETA: 1:46 - loss: 0.3944 - auROC:
0.706 - ETA: 1:44 - loss: 0.3944 - auROC: 0.706 - ETA: 1:43 - loss: 0.3944 - auROC: 0.705 - ETA: 1
:42 - loss: 0.3944 - auROC: 0.706 - ETA: 1:41 - loss: 0.3944 - auROC: 0.706 - ETA: 1:40 - loss: 0.
3945 - auROC: 0.706 - ETA: 1:38 - loss: 0.3945 - auROC: 0.706 - ETA: 1:37 - loss: 0.3945 - auROC:
0.706 - ETA: 1:36 - loss: 0.3945 - auROC: 0.706 - ETA: 1:35 - loss: 0.3945 - auROC: 0.706 - ETA: 1
:33 - loss: 0.3945 - auROC: 0.706 - ETA: 1:32 - loss: 0.3946 - auROC: 0.706 - ETA: 1:31 - loss: 0.
3944 - auROC: 0.705 - ETA: 1:30 - loss: 0.3944 - auROC: 0.706 - ETA: 1:29 - loss: 0.3944 - auROC:
0.706 - ETA: 1:27 - loss: 0.3944 - auROC: 0.705 - ETA: 1:26 - loss: 0.3944 - auROC: 0.705 - ETA: 1
:25 - loss: 0.3944 - auROC: 0.705 - ETA: 1:24 - loss: 0.3944 - auROC: 0.705 - ETA: 1:22 - loss: 0.
3945 - auROC: 0.706 - ETA: 1:21 - loss: 0.3944 - auROC: 0.706 - ETA: 1:20 - loss: 0.3945 - auROC:
0.706 - ETA: 1:19 - loss: 0.3946 - auROC: 0.705 - ETA: 1:18 - loss: 0.3945 - auROC: 0.706 - ETA: 1
:16 - loss: 0.3945 - auROC: 0.706 - ETA: 1:15 - loss: 0.3946 - auROC: 0.706 - ETA: 1:14 - loss: 0.
3945 - auROC: 0.706 - ETA: 1:13 - loss: 0.3945 - auROC: 0.706 - ETA: 1:11 - loss: 0.3944 - auROC:
0.706 - ETA: 1:10 - loss: 0.3945 - auROC: 0.706 - ETA: 1:09 - loss: 0.3945 - auROC: 0.706 - ETA: 1
:08 - loss: 0.3945 - auROC: 0.706 - ETA: 1:07 - loss: 0.3944 - auROC: 0.706 - ETA: 1:05 - loss: 0.
3944 - auROC: 0.706 - ETA: 1:04 - loss: 0.3943 - auROC: 0.706 - ETA: 1:03 - loss: 0.3943 - auROC:
0.706 - ETA: 1:02 - loss: 0.3942 - auROC: 0.706 - ETA: 1:00 - loss: 0.3943 - auROC: 0.706 - ETA: 5
9s - loss: 0.3944 - auROC: 0.706 - ETA: 58s - loss: 0.3943 - auROC: 0.70 - ETA: 57s - loss: 0.3943
- auROC: 0.70 - ETA: 56s - loss: 0.3944 - auROC: 0.70 - ETA: 54s - loss: 0.3943 - auROC: 0.70 - ET
A: 53s - loss: 0.3942 - auROC: 0.70 - ETA: 52s - loss: 0.3942 - auROC: 0.70 - ETA: 51s - loss: 0.3
942 - auROC: 0.70 - ETA: 49s - loss: 0.3942 - auROC: 0.70 - ETA: 48s - loss: 0.3941 - auROC: 0.70
- ETA: 47s - loss: 0.3940 - auROC: 0.70 - ETA: 46s - loss: 0.3941 - auROC: 0.70 - ETA: 45s - loss:
0.3941 - auROC: 0.70 - ETA: 43s - loss: 0.3942 - auROC: 0.70 - ETA: 42s - loss: 0.3942 - auROC: 0.
70 - ETA: 41s - loss: 0.3942 - auROC: 0.70 - ETA: 40s - loss: 0.3941 - auROC: 0.70 - ETA: 38s - lo
ss: 0.3942 - auROC: 0.70 - ETA: 37s - loss: 0.3942 - auROC: 0.70 - ETA: 36s - loss: 0.3943 - auROC
: 0.706776473/76473 [=====] - ETA: 35s - loss: 0.3943 - auROC: 0.70 - ETA
: 34s - loss: 0.3942 - auROC: 0.70 - ETA: 32s - loss: 0.3941 - auROC: 0.70 - ETA: 31s - loss: 0.39
43 - auROC: 0.70 - ETA: 30s - loss: 0.3942 - auROC: 0.70 - ETA: 29s - loss: 0.3943 - auROC: 0.70 -
ETA: 27s - loss: 0.3943 - auROC: 0.70 - ETA: 26s - loss: 0.3943 - auROC: 0.70 - ETA: 25s - loss: 0.
3943 - auROC: 0.70 - ETA: 24s - loss: 0.3943 - auROC: 0.70 - ETA: 23s - loss: 0.3943 - auROC: 0.7
0 - ETA: 21s - loss: 0.3945 - auROC: 0.70 - ETA: 20s - loss: 0.3945 - auROC: 0.70 - ETA: 19s - los
s: 0.3945 - auROC: 0.70 - ETA: 18s - loss: 0.3946 - auROC: 0.70 - ETA: 16s - loss: 0.3946 - auROC:
0.70 - ETA: 15s - loss: 0.3945 - auROC: 0.70 - ETA: 14s - loss: 0.3945 - auROC: 0.70 - ETA: 13s -
loss: 0.3944 - auROC: 0.70 - ETA: 12s - loss: 0.3943 - auROC: 0.70 - ETA: 10s - loss: 0.3942 - aur
oc: 0.70 - ETA: 9s - loss: 0.3941 - auROC: 0.7065 - ETA: 8s - loss: 0.3941 - auROC: 0.706 - ETA: 7
s - loss: 0.3940 - auROC: 0.706 - ETA: 5s - loss: 0.3939 - auROC: 0.706 - ETA: 4s - loss: 0.3940 -
auROC: 0.706 - ETA: 3s - loss: 0.3939 - auROC: 0.706 - ETA: 2s - loss: 0.3939 - auROC: 0.706 - ETA
: 1s - loss: 0.3940 - auROC: 0.706 - 1963s 26ms/step - loss: 0.3940 - auROC: 0.7066 - val_loss: 0.
3856 - val auROC: 0.7414
```

Epoch 3/20

75 - auroc: 0.75 - ETA: 23:40 - loss: 0.3855 - auroc: 0.75 - ETA: 23:36 - loss: 0.3846 - auroc: 0.75 - ETA: 23:3
 4 - loss: 0.3851 - auroc: 0.75 - ETA: 23:33 - loss: 0.3857 - auroc: 0.75 - ETA: 23:29 - loss: 0.3844 - auroc: 0.
 71 - auroc: 0.74 - ETA: 23:30 - loss: 0.3859 - auroc: 0.75 - ETA: 23:29 - loss: 0.3844 - auroc: 0.75 -
 75 - ETA: 23:27 - loss: 0.3850 - auroc: 0.75 - ETA: 23:25 - loss: 0.3861 - auroc: 0.74 - ETA: 23:2
 4 - loss: 0.3885 - auroc: 0.74 - ETA: 23:23 - loss: 0.3871 - auroc: 0.74 - ETA: 23:22 - loss: 0.38
 73 - auroc: 0.74 - ETA: 23:21 - loss: 0.3880 - auroc: 0.74 - ETA: 23:20 - loss: 0.3886 - auroc: 0.
 74 - ETA: 23:18 - loss: 0.3890 - auroc: 0.74 - ETA: 23:17 - loss: 0.3866 - auroc: 0.74 - ETA: 23:1
 5 - loss: 0.3887 - auroc: 0.74 - ETA: 23:14 - loss: 0.3894 - auroc: 0.74 - ETA: 23:12 - loss: 0.38
 83 - auroc: 0.74 - ETA: 23:11 - loss: 0.3888 - auroc: 0.74 - ETA: 23:10 - loss: 0.3876 - auroc: 0.
 74 - ETA: 23:08 - loss: 0.3887 - auroc: 0.74 - ETA: 23:07 - loss: 0.3876 - auroc: 0.74 - ETA: 23:0
 5 - loss: 0.3878 - auroc: 0.74 - ETA: 23:04 - loss: 0.3864 - auroc: 0.74 - ETA: 23:02 - loss: 0.38
 52 - auroc: 0.74 - ETA: 23:01 - loss: 0.3844 - auroc: 0.74 - ETA: 23:01 - loss: 0.3858 - auroc: 0.
 74 - ETA: 22:59 - loss: 0.3845 - auroc: 0.74 - ETA: 22:58 - loss: 0.3855 - auroc: 0.74 - ETA: 22:5
 7 - loss: 0.3857 - auroc: 0.74 - ETA: 22:55 - loss: 0.3861 - auroc: 0.74 - ETA: 22:54 - loss: 0.38
 73 - auroc: 0.74 - ETA: 22:53 - loss: 0.3880 - auroc: 0.74 - ETA: 22:52 - loss: 0.3868 - auroc: 0.
 74 - ETA: 22:51 - loss: 0.3869 - auroc: 0.74 - ETA: 22:49 - loss: 0.3863 - auroc: 0.74 - ETA: 22:4
 8 - loss: 0.3857 - auroc: 0.74 - ETA: 22:46 - loss: 0.3888 - auroc: 0.74 - ETA: 22:45 - loss: 0.39
 17 - auroc: 0.74 - ETA: 22:45 - loss: 0.3913 - auroc: 0.73 - ETA: 22:44 - loss: 0.3899 - auroc: 0.
 73 - ETA: 22:43 - loss: 0.3885 - auroc: 0.74 - ETA: 22:42 - loss: 0.3885 - auroc: 0.74 - ETA: 22:4
 1 - loss: 0.3879 - auroc: 0.74 - ETA: 22:40 - loss: 0.3864 - auroc: 0.74 - ETA: 22:39 - loss: 0.38
 52 - auroc: 0.74 - ETA: 22:37 - loss: 0.3855 - auroc: 0.74 - ETA: 22:36 - loss: 0.3846 - auroc: 0.
 74 - ETA: 22:34 - loss: 0.3850 - auroc: 0.74 - ETA: 22:33 - loss: 0.3848 - auroc: 0.74 - ETA: 22:3
 2 - loss: 0.3839 - auroc: 0.74 - ETA: 22:31 - loss: 0.3831 - auroc: 0.74 - ETA: 22:30 - loss: 0.38
 27 - auroc: 0.75 - ETA: 22:28 - loss: 0.3821 - auroc: 0.75 - ETA: 22:27 - loss: 0.3817 - auroc: 0.
 75 - ETA: 22:26 - loss: 0.3818 - auroc: 0.75 - ETA: 22:25 - loss: 0.3818 - auroc: 0.75 - ETA: 22:2
 4 - loss: 0.3814 - auroc: 0.74 - ETA: 22:22 - loss: 0.3814 - auroc: 0.74 - ETA: 22:21 - loss: 0.38
 06 - auroc: 0.74 - ETA: 22:19 - loss: 0.3813 - auroc: 0.74 - ETA: 22:19 - loss: 0.3811 - auroc: 0.
 74 - ETA: 22:18 - loss: 0.3813 - auroc: 0.74 - ETA: 22:17 - loss: 0.3815 - auroc: 0.74 - ETA: 22:1
 6 - loss: 0.3811 - auroc: 0.74 - ETA: 22:14 - loss: 0.3812 - auroc: 0.74 - ETA: 22:13 - loss: 0.38
 06 - auroc: 0.74 - ETA: 22:11 - loss: 0.3807 - auroc: 0.74 - ETA: 22:10 - loss: 0.3813 - auroc: 0.
 74 - ETA: 22:09 - loss: 0.3810 - auroc: 0.74 - ETA: 22:08 - loss: 0.3811 - auroc: 0.74 - ETA: 22:0
 6 - loss: 0.3805 - auroc: 0.74 - ETA: 22:05 - loss: 0.3811 - auroc: 0.74 - ETA: 22:04 - loss: 0.38
 03 - auroc: 0.74 - ETA: 22:03 - loss: 0.3810 - auroc: 0.74 - ETA: 22:01 - loss: 0.3802 - auroc: 0.
 74 - ETA: 22:00 - loss: 0.3803 - auroc: 0.74 - ETA: 21:59 - loss: 0.3804 - auroc: 0.74 - ETA: 21:5
 7 - loss: 0.3795 - auroc: 0.74 - ETA: 21:56 - loss: 0.3797 - auroc: 0.74 - ETA: 21:55 - loss: 0.37
 92 - auroc: 0.74 - ETA: 21:54 - loss: 0.3801 - auroc: 0.74 - ETA: 21:53 - loss: 0.3794 - auroc: 0.
 74 - ETA: 21:51 - loss: 0.3799 - auroc: 0.74 - ETA: 21:50 - loss: 0.3796 - auroc: 0.74 - ETA: 21:4
 9 - loss: 0.3790 - auroc: 0.74 - ETA: 21:48 - loss: 0.3795 - auroc: 0.74 - ETA: 21:47 - loss: 0.37
 94 - auroc: 0.74 - ETA: 21:45 - loss: 0.3800 - auroc: 0.74 - ETA: 21:44 - loss: 0.3804 - auroc: 0.
 74 - ETA: 21:43 - loss: 0.3798 - auroc: 0.74 - ETA: 21:41 - loss: 0.3791 - auroc: 0.74 - ETA: 21:4
 0 - loss: 0.3795 - auroc: 0.74 - ETA: 21:39 - loss: 0.3793 - auroc: 0.74 - ETA: 21:38 - loss: 0.37
 95 - auroc: 0.74 - ETA: 21:36 - loss: 0.3802 - auroc: 0.74 - ETA: 21:35 - loss: 0.3801 - auroc: 0.
 74 - ETA: 21:34 - loss: 0.3802 - auroc: 0.74 - ETA: 21:33 - loss: 0.3794 - auroc: 0.74 - ETA: 21:3
 2 - loss: 0.3789 - auroc: 0.74 - ETA: 21:31 - loss: 0.3798 - auroc: 0.74 - ETA: 21:29 - loss: 0.37
 93 - auroc: 0.74 - ETA: 21:28 - loss: 0.3798 - auroc: 0.74 - ETA: 21:27 - loss: 0.3800 - auroc: 0.
 74 - ETA: 21:26 - loss: 0.3807 - auroc: 0.74 - ETA: 21:25 - loss: 0.3810 - auroc: 0.74 - ETA: 21:2
 3 - loss: 0.3812 - auroc: 0.74 - ETA: 21:22 - loss: 0.3807 - auroc: 0.74 - ETA: 21:21 - loss: 0.38
 01 - auroc: 0.74 - ETA: 21:20 - loss: 0.3798 - auroc: 0.74 - ETA: 21:19 - loss: 0.3798 - auroc: 0.
 74 - ETA: 21:17 - loss: 0.3794 - auroc: 0.74 - ETA: 21:16 - loss: 0.3787 - auroc: 0.74 - ETA: 21:1
 4 - loss: 0.3787 - auroc: 0.74 - ETA: 21:13 - loss: 0.3785 - auroc: 0.74 - ETA: 21:12 - loss: 0.37
 91 - auroc: 0.74 - ETA: 21:11 - loss: 0.3790 - auroc: 0.74 - ETA: 21:10 - loss: 0.3789 - auroc: 0.
 74 - ETA: 21:08 - loss: 0.3787 - auroc: 0.74 - ETA: 21:07 - loss: 0.3796 - auroc: 0.74 - ETA: 21:0
 6 - loss: 0.3793 - auroc: 0.74 - ETA: 21:05 - loss: 0.3790 - auroc: 0.74 - ETA: 21:04 - loss: 0.37
 92 - auroc: 0.74 - ETA: 21:02 - loss: 0.3798 - auroc: 0.74 - ETA: 21:01 - loss: 0.3796 - auroc: 0.
 74 - ETA: 21:00 - loss: 0.3792 - auroc: 0.74 - ETA: 20:59 - loss: 0.3791 - auroc: 0.74 - ETA: 20:5
 7 - loss: 0.3791 - auroc: 0.74 - ETA: 20:56 - loss: 0.3793 - auroc:

[illegible]

[illegible]

[illegible]


```
ss: 0.3783 - auROC: 0.740 - ETA: 9:03 - loss: 0.3784 - auROC: 0.740 - ETA: 9:02 - loss: 0.3783 - a
auROC: 0.740 - ETA: 9:01 - loss: 0.3784 - auROC: 0.740 - ETA: 8:59 - loss: 0.3784 - auROC: 0.740 -
ETA: 8:58 - loss: 0.3784 - auROC: 0.740 - ETA: 8:57 - loss: 0.3784 - auROC: 0.741 - ETA: 8:56 - lo
ss: 0.3783 - auROC: 0.741 - ETA: 8:55 - loss: 0.3784 - auROC: 0.741 - ETA: 8:53 - loss: 0.3782 - a
uROC: 0.741 - ETA: 8:52 - loss: 0.3783 - auROC: 0.741 - ETA: 8:51 - loss: 0.3783 - auROC: 0.741 -
ETA: 8:50 - loss: 0.3783 - auROC: 0.741 - ETA: 8:49 - loss: 0.3783 - auROC: 0.741 - ETA: 8:47 - lo
ss: 0.3783 - auROC: 0.741 - ETA: 8:46 - loss: 0.3784 - auROC: 0.741 - ETA: 8:45 - loss: 0.3784 - a
uROC: 0.741 - ETA: 8:44 - loss: 0.3783 - auROC: 0.741 - ETA: 8:43 - loss: 0.3784 - auROC: 0.741 -
ETA: 8:41 - loss: 0.3785 - auROC: 0.741 - ETA: 8:40 - loss: 0.3785 - auROC: 0.741 - ETA: 8:39 - lo
ss: 0.3786 - auROC: 0.741 - ETA: 8:38 - loss: 0.3786 - auROC: 0.741062080/76473
[=====>.....] - ETA: 8:37 - loss: 0.3787 - auROC: 0.741 - ETA: 8:35 - loss: 0.3
789 - auROC: 0.740 - ETA: 8:34 - loss: 0.3789 - auROC: 0.741 - ETA: 8:33 - loss: 0.3791 - auROC: 0
.741 - ETA: 8:32 - loss: 0.3791 - auROC: 0.741 - ETA: 8:31 - loss: 0.3792 - auROC: 0.741 - ETA: 8:
29 - loss: 0.3793 - auROC: 0.741 - ETA: 8:28 - loss: 0.3795 - auROC: 0.740 - ETA: 8:27 - loss: 0.3
794 - auROC: 0.741 - ETA: 8:26 - loss: 0.3793 - auROC: 0.741 - ETA: 8:25 - loss: 0.3794 - auROC: 0
.741 - ETA: 8:23 - loss: 0.3794 - auROC: 0.741 - ETA: 8:22 - loss: 0.3794 - auROC: 0.741 - ETA: 8:
21 - loss: 0.3794 - auROC: 0.740 - ETA: 8:20 - loss: 0.3793 - auROC: 0.740 - ETA: 8:18 - loss: 0.3
792 - auROC: 0.741 - ETA: 8:17 - loss: 0.3792 - auROC: 0.741 - ETA: 8:16 - loss: 0.3794 - auROC: 0
.740 - ETA: 8:15 - loss: 0.3794 - auROC: 0.740 - ETA: 8:13 - loss: 0.3795 - auROC: 0.740 - ETA: 8:
12 - loss: 0.3795 - auROC: 0.740 - ETA: 8:11 - loss: 0.3796 - auROC: 0.740 - ETA: 8:10 - loss: 0.3
796 - auROC: 0.740 - ETA: 8:08 - loss: 0.3796 - auROC: 0.740 - ETA: 8:07 - loss: 0.3796 - auROC: 0
.740 - ETA: 8:06 - loss: 0.3796 - auROC: 0.740 - ETA: 8:05 - loss: 0.3794 - auROC: 0.740 - ETA: 8:
03 - loss: 0.3794 - auROC: 0.740 - ETA: 8:02 - loss: 0.3795 - auROC: 0.740 - ETA: 8:01 - loss: 0.3
796 - auROC: 0.740 - ETA: 8:00 - loss: 0.3796 - auROC: 0.740 - ETA: 7:59 - loss: 0.3795 - auROC: 0
.740 - ETA: 7:57 - loss: 0.3795 - auROC: 0.740 - ETA: 7:56 - loss: 0.3796 - auROC: 0.740 - ETA: 7:
55 - loss: 0.3796 - auROC: 0.740 - ETA: 7:54 - loss: 0.3797 - auROC: 0.740 - ETA: 7:52 - loss: 0.3
797 - auROC: 0.740 - ETA: 7:51 - loss: 0.3797 - auROC: 0.740 - ETA: 7:50 - loss: 0.3797 - auROC: 0
.740 - ETA: 7:49 - loss: 0.3798 - auROC: 0.740 - ETA: 7:47 - loss: 0.3797 - auROC: 0.740 - ETA: 7:
46 - loss: 0.3798 - auROC: 0.740 - ETA: 7:45 - loss: 0.3798 - auROC: 0.740 - ETA: 7:44 - loss: 0.3
797 - auROC: 0.740 - ETA: 7:42 - loss: 0.3795 - auROC: 0.740 - ETA: 7:41 - loss: 0.3796 - auROC: 0
.739 - ETA: 7:40 - loss: 0.3796 - auROC: 0.739 - ETA: 7:39 - loss: 0.3795 - auROC: 0.740 - ETA: 7:
37 - loss: 0.3795 - auROC: 0.739 - ETA: 7:36 - loss: 0.3796 - auROC: 0.740 - ETA: 7:35 - loss: 0.3
795 - auROC: 0.740 - ETA: 7:34 - loss: 0.3795 - auROC: 0.740 - ETA: 7:33 - loss: 0.3795 - auROC: 0
.739 - ETA: 7:31 - loss: 0.3794 - auROC: 0.739 - ETA: 7:30 - loss: 0.3793 - auROC: 0.740 - ETA: 7:
29 - loss: 0.3792 - auROC: 0.739 - ETA: 7:28 - loss: 0.3794 - auROC: 0.739 - ETA: 7:26 - loss: 0.3
794 - auROC: 0.739 - ETA: 7:25 - loss: 0.3794 - auROC: 0.739 - ETA: 7:24 - loss: 0.3794 - auROC: 0
.740 - ETA: 7:23 - loss: 0.3794 - auROC: 0.740 - ETA: 7:21 - loss: 0.3794 - auROC: 0.740 - ETA: 7:
20 - loss: 0.3792 - auROC: 0.740 - ETA: 7:19 - loss: 0.3793 - auROC: 0.740 - ETA: 7:18 - loss: 0.3
793 - auROC: 0.740 - ETA: 7:16 - loss: 0.3791 - auROC: 0.740 - ETA: 7:15 - loss: 0.3792 - auROC: 0
.740 - ETA: 7:14 - loss: 0.3793 - auROC: 0.740 - ETA: 7:13 - loss: 0.3793 - auROC: 0.740 - ETA: 7:
11 - loss: 0.3793 - auROC: 0.740 - ETA: 7:10 - loss: 0.3793 - auROC: 0.740 - ETA: 7:09 - loss: 0.3
792 - auROC: 0.740 - ETA: 7:08 - loss: 0.3791 - auROC: 0.740 - ETA: 7:06 - loss: 0.3792 - auROC: 0
.741 - ETA: 7:05 - loss: 0.3793 - auROC: 0.741 - ETA: 7:04 - loss: 0.3795 - auROC: 0.741 - ETA: 7:
03 - loss: 0.3795 - auROC: 0.740 - ETA: 7:02 - loss: 0.3795 - auROC: 0.740 - ETA: 7:00 - loss: 0.3
794 - auROC: 0.740 - ETA: 6:59 - loss: 0.3795 - auROC: 0.740 - ETA: 6:58 - loss: 0.3796 - auROC: 0
.740 - ETA: 6:57 - loss: 0.3796 - auROC: 0.740 - ETA: 6:55 - loss: 0.3796 - auROC: 0.740 - ETA: 6:
54 - loss: 0.3798 - auROC: 0.740 - ETA: 6:53 - loss: 0.3798 - auROC: 0.741 - ETA: 6:52 - loss: 0.3
798 - auROC: 0.740 - ETA: 6:50 - loss: 0.3798 - auROC: 0.740 - ETA: 6:49 - loss: 0.3798 - auROC: 0
.740 - ETA: 6:48 - loss: 0.3798 - auROC: 0.741 - ETA: 6:47 - loss: 0.3798 - auROC: 0.741 - ETA: 6:
45 - loss: 0.3797 - auROC: 0.741 - ETA: 6:44 - loss: 0.3797 - auROC: 0.741 - ETA: 6:43 - loss: 0.3
796 - auROC: 0.741 - ETA: 6:42 - loss: 0.3795 - auROC: 0.741 - ETA: 6:40 - loss: 0.3797 - auROC: 0
.741 - ETA: 6:39 - loss: 0.3797 - auROC: 0.741 - ETA: 6:38 - loss: 0.3797 - auROC: 0.741 - ETA: 6:
37 - loss: 0.3797 - auROC: 0.741 - ETA: 6:36 - loss: 0.3795 - auROC: 0.741 - ETA: 6:34 - loss: 0.3
796 - auROC: 0.741 - ETA: 6:33 - loss: 0.3797 - auROC: 0.741 - ETA: 6:32 - loss: 0.3797 - auROC: 0
.741 - ETA: 6:31 - loss: 0.3798 - auROC: 0.740 - ETA: 6:29 - loss: 0.3798 - auROC: 0.741 - ETA: 6:
28 - loss: 0.3797 - auROC: 0.741 - ETA: 6:27 - loss: 0.3797 - auROC: 0.741 - ETA: 6:26 - loss: 0.3
796 - auROC: 0.740 - ETA: 6:24 - loss: 0.3795 - auROC: 0.741 - ETA: 6:23 - loss: 0.3796 - auROC: 0
.740 - ETA: 6:22 - loss: 0.3796 - auROC: 0.740 - ETA: 6:21 - loss: 0.3796 - auROC: 0.740 - ETA: 6:
19 - loss: 0.3796 - auROC: 0.741 - ETA: 6:18 - loss: 0.3797 - auROC: 0.741 - ETA: 6:17 - loss: 0.3
798 - auROC: 0.741 - ETA: 6:16 - loss: 0.3798 - auROC: 0.741 - ETA: 6:14 - loss: 0.3798 - auROC: 0
.741 - ETA: 6:13 - loss: 0.3798 - auROC: 0.741 - ETA: 6:12 - loss: 0.3798 - auROC: 0.741 - ETA: 6:
11 - loss: 0.3798 - auROC: 0.741 - ETA: 6:10 - loss: 0.3798 - auROC: 0.741 - ETA: 6:08 - loss: 0
```

[illegible]

:43 - loss: 0.3798 - auroc: 0.741 - ETA: 1:42 - loss: 0.3797 - auroc: 0.741 - ETA: 1:41 - loss: 0.3798 - auroc: 0.741 - ETA: 1:40 - loss: 0.3797 - auroc: 0.741 - ETA: 1:38 - loss: 0.3797 - auroc: 0.741 - ETA: 1:37 - loss: 0.3797 - auroc: 0.741 - ETA: 1:36 - loss: 0.3795 - auroc: 0.741 - ETA: 1:35 - loss: 0.3796 - auroc: 0.741 - ETA: 1:33 - loss: 0.3796 - auroc: 0.741 - ETA: 1:32 - loss: 0.3795 - auroc: 0.741 - ETA: 1:31 - loss: 0.3795 - auroc: 0.740 - ETA: 1:30 - loss: 0.3795 - auroc: 0.740 - ETA: 1:28 - loss: 0.3795 - auroc: 0.740 - ETA: 1:27 - loss: 0.3796 - auroc: 0.741 - ETA: 1:26 - loss: 0.3796 - auroc: 0.740 - ETA: 1:25 - loss: 0.3795 - auroc: 0.741 - ETA: 1:23 - loss: 0.3797 - auroc: 0.740 - ETA: 1:22 - loss: 0.3797 - auroc: 0.740 - ETA: 1:21 - loss: 0.3798 - auroc: 0.740 - ETA: 1:20 - loss: 0.3797 - auroc: 0.740 - ETA: 1:19 - loss: 0.3797 - auroc: 0.740 - ETA: 1:17 - loss: 0.3797 - auroc: 0.740 - ETA: 1:16 - loss: 0.3797 - auroc: 0.741 - ETA: 1:15 - loss: 0.3798 - auroc: 0.740 - ETA: 1:14 - loss: 0.3798 - auroc: 0.741 - ETA: 1:12 - loss: 0.3797 - auroc: 0.741 - ETA: 1:11 - loss: 0.3797 - auroc: 0.741 - ETA: 1:10 - loss: 0.3796 - auroc: 0.741 - ETA: 1:09 - loss: 0.3798 - auroc: 0.741 - ETA: 1:07 - loss: 0.3797 - auroc: 0.741 - ETA: 1:06 - loss: 0.3797 - auroc: 0.740 - ETA: 1:05 - loss: 0.3797 - auroc: 0.740 - ETA: 1:04 - loss: 0.3797 - auroc: 0.740 - ETA: 1:02 - loss: 0.3797 - auroc: 0.740 - ETA: 1:01 - loss: 0.3797 - auroc: 0.741 - ETA: 1:00 - loss: 0.3796 - auroc: 0.741 - ETA: 59s - loss: 0.3796 - auroc: 0.740 - ETA: 58s - loss: 0.3796 - auroc: 0.74 - ETA: 56s - loss: 0.3796 - auroc: 0.74 - ETA: 55s - loss: 0.3797 - auroc: 0.74 - ETA: 54s - loss: 0.3798 - auroc: 0.74 - ETA: 53s - loss: 0.3799 - auroc: 0.74 - ETA: 51s - loss: 0.3798 - auroc: 0.74 - ETA: 50s - loss: 0.3800 - auroc: 0.74 - ETA: 49s - loss: 0.3799 - auroc: 0.74 - ETA: 48s - loss: 0.3801 - auroc: 0.74 - ETA: 46s - loss: 0.3800 - auroc: 0.74 - ETA: 45s - loss: 0.3800 - auroc: 0.74 - ETA: 44s - loss: 0.3800 - auroc: 0.74 - ETA: 43s - loss: 0.3801 - auroc: 0.74 - ETA: 41s - loss: 0.3800 - auroc: 0.74 - ETA: 40s - loss: 0.3802 - auroc: 0.74 - ETA: 39s - loss: 0.3801 - auroc: 0.74 - ETA: 38s - loss: 0.3801 - auroc: 0.74 - ETA: 36s - loss: 0.3800 - auroc: 0.740776473/76473 [=====] - ETA: 35s - loss: 0.3799 - auroc: 0.74 - ETA: 34s - loss: 0.3798 - auroc: 0.74 - ETA: 33s - loss: 0.3798 - auroc: 0.74 - ETA: 32s - loss: 0.3799 - auroc: 0.74 - ETA: 30s - loss: 0.3798 - auroc: 0.74 - ETA: 29s - loss: 0.3799 - auroc: 0.74 - ETA: 28s - loss: 0.3800 - auroc: 0.74 - ETA: 27s - loss: 0.3799 - auroc: 0.74 - ETA: 25s - loss: 0.3800 - auroc: 0.74 - ETA: 24s - loss: 0.3801 - auroc: 0.74 - ETA: 23s - loss: 0.3802 - auroc: 0.74 - ETA: 22s - loss: 0.3802 - auroc: 0.74 - ETA: 20s - loss: 0.3802 - auroc: 0.74 - ETA: 19s - loss: 0.3802 - auroc: 0.74 - ETA: 18s - loss: 0.3801 - auroc: 0.74 - ETA: 17s - loss: 0.3800 - auroc: 0.74 - ETA: 15s - loss: 0.3799 - auroc: 0.74 - ETA: 14s - loss: 0.3799 - auroc: 0.74 - ETA: 13s - loss: 0.3799 - auroc: 0.74 - ETA: 12s - loss: 0.3798 - auroc: 0.74 - ETA: 10s - loss: 0.3799 - auroc: 0.74 - ETA: 9s - loss: 0.3799 - auroc: 0.7411 - ETA: 8s - loss: 0.3798 - auroc: 0.741 - ETA: 7s - loss: 0.3798 - auroc: 0.741 - ETA: 6s - loss: 0.3799 - auroc: 0.741 - ETA: 4s - loss: 0.3799 - auroc: 0.741 - ETA: 3s - loss: 0.3799 - auroc: 0.741 - ETA: 2s - loss: 0.3800 - auroc: 0.741 - ETA: 1s - loss: 0.3800 - auroc: 0.741 - 1976s 26ms/step - loss: 0.3799 - auroc: 0.7412 - val_loss: 0.3776 - val_auroc: 0.7489

Epoch 00003: val_loss improved from 0.38558 to 0.37759, saving model to model_1.h5

Epoch 4/20

12416/76473 [==>.....] - ETA: 24:55 - loss: 0.4428 - auroc: 0.67 - ETA: 24:43 - loss: 0.4312 - auroc: 0.66 - ETA: 24:39 - loss: 0.3914 - auroc: 0.72 - ETA: 24:40 - loss: 0.3683 - auroc: 0.73 - ETA: 24:44 - loss: 0.3724 - auroc: 0.76 - ETA: 24:37 - loss: 0.3533 - auroc: 0.79 - ETA: 24:39 - loss: 0.3643 - auroc: 0.79 - ETA: 24:40 - loss: 0.3445 - auroc: 0.80 - ETA: 24:42 - loss: 0.3557 - auroc: 0.80 - ETA: 24:33 - loss: 0.3585 - auroc: 0.80 - ETA: 24:34 - loss: 0.3510 - auroc: 0.80 - ETA: 24:35 - loss: 0.3529 - auroc: 0.80 - ETA: 24:31 - loss: 0.3627 - auroc: 0.79 - ETA: 24:29 - loss: 0.3630 - auroc: 0.80 - ETA: 24:26 - loss: 0.3636 - auroc: 0.80 - ETA: 24:24 - loss: 0.3603 - auroc: 0.81 - ETA: 24:21 - loss: 0.3635 - auroc: 0.80 - ETA: 24:17 - loss: 0.3666 - auroc: 0.80 - ETA: 24:12 - loss: 0.3628 - auroc: 0.80 - ETA: 24:11 - loss: 0.3625 - auroc: 0.80 - ETA: 24:08 - loss: 0.3591 - auroc: 0.80 - ETA: 24:07 - loss: 0.3613 - auroc: 0.80 - ETA: 24:06 - loss: 0.3674 - auroc: 0.80 - ETA: 24:05 - loss: 0.3667 - auroc: 0.80 - ETA: 24:02 - loss: 0.3673 - auroc: 0.80 - ETA: 24:00 - loss: 0.3620 - auroc: 0.80 - ETA: 23:59 - loss: 0.3628 - auroc: 0.79 - ETA: 23:58 - loss: 0.3613 - auroc: 0.79 - ETA: 23:57 - loss: 0.3577 - auroc: 0.79 - ETA: 23:55 - loss: 0.3624 - auroc: 0.79 - ETA: 23:53 - loss: 0.3661 - auroc: 0.78 - ETA: 23:51 - loss: 0.3617 - auroc: 0.79 - ETA: 23:50 - loss: 0.3631 - auroc: 0.79 - ETA: 23:48 - loss: 0.3636 - auroc: 0.78 - ETA: 23:47 - loss: 0.3648 - auroc: 0.78 - ETA: 23:45 - loss: 0.3651 - auroc: 0.78 - ETA: 23:42 - loss: 0.3659 - auroc: 0.78 - ETA: 23:40 - loss: 0.3655 - auroc: 0.78 - ETA: 23:38 - loss: 0.3673 - auroc: 0.78 - ETA: 23:37 - loss: 0.3675 - auroc: 0.78 - ETA: 23:39 - loss: 0.3691 - auroc: 0.78 - ETA: 23:38 - loss: 0.3723 - auroc: 0.77 - ETA: 23:36 - loss: 0.3728 - auroc: 0.78 - ETA: 23:34 - loss: 0.3739 - auroc: 0.77 - ETA: 23:33 - loss: 0.3723 - auroc: 0.77 - ETA: 23:32 - loss: 0.3720 - auroc: 0.78 - ETA: 23:32 - loss: 0.3729 - auroc: 0.77 - ETA: 23:30 - loss: 0.3705 - auroc: 0.77 - ETA: 23:29 - loss: 0.3679 - auroc: 0.78 - ETA: 23:28 - loss: 0.3663 - auroc: 0.78 - ETA: 23:27 - loss: 0.3690 - auroc: 0.78 - ETA: 23:25 - loss: 0.3684 - auroc: 0.77 - ETA: 23:24 - loss: 0.3675 - auroc: 0.77 - ETA: 23:23 - loss: 0.3686 - auroc: 0.77 - ETA: 23:21 - loss: 0.3694 - auroc: 0.77 - ETA: 23:20 - loss: 0.3679 - auroc: 0.77 - ETA: 23:18 - loss: 0.3708 - auroc: 0.77 - ETA: 23:20 - loss: 0.3719 - auroc: 0.77 - ETA: 23:18 - loss: 0.3712 - auroc: 0.77 - ETA: 23:17 - loss: 0.3726 - auroc: 0.77 - ETA: 23:16 - loss: 0.3735 - auroc: 0.77 - ETA: 23:14 - loss: 0.3742 - auroc: 0.77 - ETA: 23:13 - loss: 0.3760 - auroc: 0.77 - ETA: 23:12 - loss: 0.3742 - auroc: 0.77 - ETA: 23:10 - loss: 0.3766 - auroc: 0.77 - ETA: 23:09 - loss: 0.3761 - auroc: 0.77 - ETA: 23:07 - loss: 0.3767 - auroc: 0.77 - ETA: 23:06 - loss: 0.3756 - auroc: 0.77 - ETA: 23:05 - loss: 0.3751 - auroc: 0.77 - ETA: 23:04 - loss: 0.3745 - auroc: 0.77 - ETA: 23:02 - loss: 0.3755 - auroc: 0.77 - ETA: 23:01 - loss: 0.3741 - auroc: 0.77 - ETA: 22:59 - loss: 0.3742 - auroc: 0.77 - ETA: 22:58 - loss: 0.3753 - auroc: 0.77 - ETA: 22:56 - loss: 0.3747 - auroc: 0.77 - ETA: 22:55 - loss: 0.3772 - auroc: 0.77 - ETA: 22:53 - loss: 0.3761 - auroc: 0.77 - ETA: 22:52 - loss: 0.3746 - auroc: 0.77 - ETA: 22:50 - loss: 0.3752 - auroc: 0.77 - ETA: 22:49 - loss: 0.3747 - auroc: 0.77 - ETA: 22:49 - loss: 0.3750 - auroc: 0.77 - ETA: 22:47 - loss: 0.3747 - auroc: 0.77 - ETA: 22:46 - loss: 0.3745 - auroc: 0.77 - ETA: 22:45 - loss: 0.3761 - auroc: 0.77 - ETA: 22:44 - loss: 0.3764 - auroc: 0.77 - ETA: 22:4

- loss: 0.3771 - auROC: 0.77 - ETA: 22:41 - loss: 0.3776 - auROC: 0.77 - ETA: 22:40 - loss: 0.37
79 - auROC: 0.77 - ETA: 22:39 - loss: 0.3781 - auROC: 0.77 - ETA: 22:37 - loss: 0.3769 - auROC: 0.
77 - ETA: 22:36 - loss: 0.3769 - auROC: 0.77 - ETA: 22:35 - loss: 0.3772 - auROC: 0.77 - ETA: 22:3
4 - loss: 0.3789 - auROC: 0.77 - ETA: 22:33 - loss: 0.3796 - auROC: 0.77 - ETA: 22:32 - loss: 0.38
09 - auROC: 0.77 - ETA: 22:30 - loss: 0.3801 - auROC: 0.77 - ETA: 22:29 - loss: 0.3791 - auROC: 0.
77 - ETA: 22:28 - loss: 0.3803 - auROC: 0.77 - ETA: 22:26 - loss: 0.3811 - auROC: 0.77 - ETA: 22:2
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6 - loss: 0.3829 - auROC: 0.77 - ETA: 22:15 - loss: 0.3815 - auROC: 0.77 - ETA: 22:14 - loss: 0.38
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7 - loss: 0.3815 - auROC: 0.77 - ETA: 22:06 - loss: 0.3812 - auROC: 0.77 - ETA: 22:04 - loss: 0.38
08 - auROC: 0.77 - ETA: 22:03 - loss: 0.3799 - auROC: 0.77 - ETA: 22:02 - loss: 0.3798 - auROC: 0.
77 - ETA: 22:00 - loss: 0.3790 - auROC: 0.77 - ETA: 21:59 - loss: 0.3795 - auROC: 0.77 - ETA: 21:5
7 - loss: 0.3790 - auROC: 0.77 - ETA: 21:56 - loss: 0.3790 - auROC: 0.77 - ETA: 21:55 - loss: 0.37
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77 - ETA: 21:51 - loss: 0.3769 - auROC: 0.77 - ETA: 21:50 - loss: 0.3770 - auROC: 0.77 - ETA: 21:4
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3 - loss: 0.3809 - auROC: 0.76 - ETA: 21:22 - loss: 0.3803 - auROC: 0.76 - ETA: 21:21 - loss: 0.37
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4 - loss: 0.3775 - auROC: 0.76 - ETA: 20:32 - loss: 0.3771 - auROC: 0.76 - ETA: 20:31 - loss: 0.37
69 - auROC: 0.76 - ETA: 20:30 - loss: 0.3769 - auROC: 0.770124832/76473

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: 16:19 - loss: 0.3757 - auroc: 0.75 - ETA: 16:17 - loss: 0.3758 - auroc: 0.75 - ETA: 16:16 - loss
: 0.3757 - auroc: 0.75 - ETA: 16:15 - loss: 0.3754 - auroc: 0.75 - ETA: 16:14 - loss: 0.3753 - aur
oc: 0.75 - ETA: 16:12 - loss: 0.3752 - auroc: 0.75 - ETA: 16:11 - loss: 0.3750 - auroc: 0.75 - ETA
: 16:10 -
```

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oc: 0.75 - ETA: 15:12 - loss: 0.3732 - auroc: 0.75 - ETA: 15:11 - loss: 0.3732 - auroc: 0.75 - ETA
: 15:10 - loss: 0.3731 - auroc: 0.75 - ETA: 15:08 - loss: 0.3734 - auroc: 0.75 - ETA: 15:07 - loss
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: 0.3750 - auroc: 0.75 - ETA: 13:40 - loss: 0.3752 - auroc: 0.75 - ETA: 13:39 - loss: 0.3753 - aur
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: 13:35 - loss: 0.3754 - auroc: 0.75 - ETA: 13:34 - loss: 0.3756 - auroc: 0.75 - ETA: 13:32 - loss
: 0.3754 - auroc: 0.75 - ETA: 13:31 - loss: 0.3752 - auroc: 0.75 - ETA: 13:30 - loss: 0.3749 - aur
oc: 0.75 - ETA: 13:29 - loss: 0.3748 - auroc: 0.75 - ETA: 13:28 - loss: 0.3748 - auroc: 0.75 - ETA
: 13:26 - loss: 0.3747 - auroc: 0.75 - ETA: 13:25 - loss: 0.3745 - auroc: 0.75 - ETA: 13:24 - loss
: 0.3745 - auroc: 0.75 - ETA: 13:23 - loss: 0.3746 - auroc: 0.75 - ETA: 13:21 - loss: 0.3746 - aur
oc: 0.75 - ETA: 13:20 - loss: 0.3744 - auroc: 0.75 - ETA: 13:19 - loss: 0.3743 - auroc: 0.75 - ETA
: 13:18 - loss: 0.3740 - auroc: 0.75 - ETA: 13:16 - loss: 0.3739 - auroc: 0.75 - ETA: 13:15 - loss
: 0.3740 - auroc: 0.75 - ETA: 13:14 - loss: 0.3741 - auroc: 0.75 - ETA: 13:13 - loss: 0.3740 - aur
oc: 0.75 - ETA: 13:12 - loss: 0.3741 - auroc: 0.75 - ETA: 13:10 - loss: 0.3740 - auroc: 0.75 - ETA
: 13:09 - loss: 0.3741 - auroc: 0.75 - ETA: 13:08 - loss: 0.3742 - auroc: 0.75 - ETA: 13:07 - loss
: 0.3741 - auroc: 0.75 - ETA: 13:06 - loss: 0.3741 - auroc: 0.75 - ETA: 13:04 - loss: 0.3743 - aur
oc: 0.75 - ETA: 13:03 - loss: 0.3743 - auroc: 0.75 - ETA: 13:02 - loss: 0.3742 - auroc: 0.75 - ETA
: 13:01 - loss: 0.3742 - auroc: 0.75 - ETA: 13:00 - loss: 0.3743 - auroc: 0.75 - ETA: 12:58 - loss
: 0.3746 - auroc: 0.75 - ETA: 12:57 - loss: 0.3745 - auroc: 0.75 - ETA: 12:56 - loss: 0.3742 - aur
oc: 0.75 - ETA: 12:55 - loss: 0.3744 - auroc: 0.75 - ETA: 12:53 - loss: 0.3744 - auroc: 0.75 - ETA
: 12:52 - loss: 0.3746 - auroc: 0.75 - ETA: 12:51 - loss: 0.3748 - auroc: 0.75 - ETA: 12:50 - loss
: 0.3745 - auroc: 0.75 - ETA: 12:48 - loss: 0.3746 - auroc: 0.75 - ETA: 12:47 - loss: 0.3746 - aur
oc: 0.75 - ETA: 12:46 - loss: 0.3747 - auroc: 0.75 - ETA: 12:45 - loss: 0.3750 - auroc: 0.75 - ETA
: 12:43 - loss: 0.3748 - auroc: 0.75 - ETA: 12:42 - loss: 0.3747 - auroc: 0.75 - ETA: 12:41 - loss
: 0.3748 - auroc: 0.75 - ETA: 12:40 - loss: 0.3748 - auroc: 0.75 - ETA: 12:39 - loss: 0.3746 - aur
oc: 0.75 - ETA: 12:37 - loss: 0.3747 - auroc: 0.75 - ETA: 12:36 - loss: 0.3749 - auroc: 0.75 - ETA
: 12:35 - loss: 0.3750 - auroc: 0.75 - ETA: 12:34 - loss: 0.3750 - auroc: 0.75 - ETA: 12:32 - loss
: 0.3751 - auroc: 0.75 - ETA: 12:31 - loss: 0.3751 - auroc: 0.75 - ETA: 12:30 - loss: 0.3
```

[illegible]

[illegible]

[illegible]

s: 0.3726 - auroc: 0.75 - ETA: 44s - loss: 0.3726 - auroc: 0.75 - ETA: 42s - loss: 0.3728 - auroc: 0.75 - ETA: 41s - loss: 0.3727 - auroc: 0.75 - ETA: 40s - loss: 0.3726 - auroc: 0.75 - ETA: 39s - loss: 0.3725 - auroc: 0.75 - ETA: 37s - loss: 0.3726 - auroc: 0.75 - ETA: 36s - loss: 0.3726 - auroc: 0.755076473/76473 [=====] - ETA: 35s - loss: 0.3726 - auroc: 0.75 - ETA: 34s - loss: 0.3727 - auroc: 0.75 - ETA: 33s - loss: 0.3728 - auroc: 0.75 - ETA: 31s - loss: 0.3729 - auroc: 0.75 - ETA: 30s - loss: 0.3729 - auroc: 0.75 - ETA: 29s - loss: 0.3730 - auroc: 0.75 - ETA: 28s - loss: 0.3730 - auroc: 0.75 - ETA: 26s - loss: 0.3730 - auroc: 0.75 - ETA: 25s - loss: 0.3730 - auroc: 0.75 - ETA: 24s - loss: 0.3730 - auroc: 0.75 - ETA: 23s - loss: 0.3730 - auroc: 0.75 - ETA: 21s - loss: 0.3730 - auroc: 0.75 - ETA: 20s - loss: 0.3730 - auroc: 0.75 - ETA: 19s - loss: 0.3730 - auroc: 0.75 - ETA: 18s - loss: 0.3730 - auroc: 0.75 - ETA: 17s - loss: 0.3730 - auroc: 0.75 - ETA: 15s - loss: 0.3730 - auroc: 0.75 - ETA: 14s - loss: 0.3730 - auroc: 0.75 - ETA: 13s - loss: 0.3730 - auroc: 0.75 - ETA: 12s - loss: 0.3730 - auroc: 0.75 - ETA: 10s - loss: 0.3730 - auroc: 0.75 - ETA: 9s - loss: 0.3730 - auroc: 0.7546 - ETA: 8s - loss: 0.3731 - auroc: 0.754 - ETA: 7s - loss: 0.3730 - auroc: 0.754 - ETA: 6s - loss: 0.3730 - auroc: 0.754 - ETA: 4s - loss: 0.3730 - auroc: 0.754 - ETA: 3s - loss: 0.3730 - auroc: 0.754 - ETA: 2s - loss: 0.3731 - auroc: 0.754 - ETA: 1s - loss: 0.3731 - auroc: 0.754 - 1963s 26ms/step - loss: 0.3731 - auroc: 0.7545 - val_loss: 0.3775 - val_auroc: 0.7483

Epoch 00004: val_loss improved from 0.37759 to 0.37754, saving model to model_1.h5

Epoch 00004: ReduceLROnPlateau reducing learning rate to 0.00020000000949949026.

Epoch 5/20

12416/76473 [==>.....] - ETA: 24:49 - loss: 0.2768 - auroc: 0.80 - ETA: 24:40 - loss: 0.3351 - auroc: 0.75 - ETA: 24:29 - loss: 0.3677 - auroc: 0.76 - ETA: 24:28 - loss: 0.3726 - auroc: 0.77 - ETA: 24:33 - loss: 0.3880 - auroc: 0.74 - ETA: 24:26 - loss: 0.3909 - auroc: 0.75 - ETA: 24:32 - loss: 0.3810 - auroc: 0.76 - ETA: 24:32 - loss: 0.3799 - auroc: 0.77 - ETA: 24:32 - loss: 0.3735 - auroc: 0.76 - ETA: 24:25 - loss: 0.3784 - auroc: 0.76 - ETA: 24:24 - loss: 0.3720 - auroc: 0.76 - ETA: 24:29 - loss: 0.3630 - auroc: 0.75 - ETA: 24:25 - loss: 0.3626 - auroc: 0.76 - ETA: 24:21 - loss: 0.3586 - auroc: 0.76 - ETA: 24:19 - loss: 0.3570 - auroc: 0.77 - ETA: 24:17 - loss: 0.3565 - auroc: 0.76 - ETA: 24:15 - loss: 0.3569 - auroc: 0.75 - ETA: 24:15 - loss: 0.3586 - auroc: 0.76 - ETA: 24:12 - loss: 0.3639 - auroc: 0.76 - ETA: 24:10 - loss: 0.3580 - auroc: 0.75 - ETA: 24:08 - loss: 0.3631 - auroc: 0.76 - ETA: 24:06 - loss: 0.3633 - auroc: 0.76 - ETA: 24:10 - loss: 0.3593 - auroc: 0.76 - ETA: 24:08 - loss: 0.3615 - auroc: 0.76 - ETA: 24:08 - loss: 0.3606 - auroc: 0.76 - ETA: 24:05 - loss: 0.3618 - auroc: 0.76 - ETA: 24:05 - loss: 0.3633 - auroc: 0.76 - ETA: 24:07 - loss: 0.3616 - auroc: 0.76 - ETA: 24:04 - loss: 0.3585 - auroc: 0.76 - ETA: 24:03 - loss: 0.3550 - auroc: 0.76 - ETA: 24:01 - loss: 0.3549 - auroc: 0.76 - ETA: 23:59 - loss: 0.3525 - auroc: 0.76 - ETA: 23:57 - loss: 0.3511 - auroc: 0.77 - ETA: 23:56 - loss: 0.3535 - auroc: 0.77 - ETA: 23:54 - loss: 0.3597 - auroc: 0.76 - ETA: 23:53 - loss: 0.3568 - auroc: 0.76 - ETA: 23:51 - loss: 0.3537 - auroc: 0.77 - ETA: 23:49 - loss: 0.3580 - auroc: 0.76 - ETA: 23:48 - loss: 0.3602 - auroc: 0.76 - ETA: 23:47 - loss: 0.3593 - auroc: 0.77 - ETA: 23:46 - loss: 0.3629 - auroc: 0.77 - ETA: 23:44 - loss: 0.3620 - auroc: 0.77 - ETA: 23:43 - loss: 0.3615 - auroc: 0.77 - ETA: 23:42 - loss: 0.3603 - auroc: 0.77 - ETA: 23:40 - loss: 0.3594 - auroc: 0.77 - ETA: 23:39 - loss: 0.3609 - auroc: 0.77 - ETA: 23:38 - loss: 0.3628 - auroc: 0.77 - ETA: 23:37 - loss: 0.3628 - auroc: 0.77 - ETA: 23:38 - loss: 0.3629 - auroc: 0.77 - ETA: 23:36 - loss: 0.3622 - auroc: 0.77 - ETA: 23:35 - loss: 0.3639 - auroc: 0.77 - ETA: 23:34 - loss: 0.3649 - auroc: 0.77 - ETA: 23:33 - loss: 0.3640 - auroc: 0.77 - ETA: 23:31 - loss: 0.3642 - auroc: 0.77 - ETA: 23:29 - loss: 0.3638 - auroc: 0.77 - ETA: 23:29 - loss: 0.3633 - auroc: 0.77 - ETA: 23:28 - loss: 0.3638 - auroc: 0.77 - ETA: 23:26 - loss: 0.3639 - auroc: 0.77 - ETA: 23:25 - loss: 0.3625 - auroc: 0.77 - ETA: 23:24 - loss: 0.3628 - auroc: 0.77 - ETA: 23:22 - loss: 0.3624 - auroc: 0.77 - ETA: 23:21 - loss: 0.3636 - auroc: 0.77 - ETA: 23:20 - loss: 0.3637 - auroc: 0.77 - ETA: 23:19 - loss: 0.3660 - auroc: 0.77 - ETA: 23:17 - loss: 0.3663 - auroc: 0.77 - ETA: 23:16 - loss: 0.3659 - auroc: 0.77 - ETA: 23:14 - loss: 0.3656 - auroc: 0.77 - ETA: 23:13 - loss: 0.3652 - auroc: 0.77 - ETA: 23:12 - loss: 0.3646 - auroc: 0.77 - ETA: 23:11 - loss: 0.3632 - auroc: 0.77 - ETA: 23:09 - loss: 0.3629 - auroc: 0.77 - ETA: 23:08 - loss: 0.3631 - auroc: 0.77 - ETA: 23:06 - loss: 0.3630 - auroc: 0.77 - ETA: 23:05 - loss: 0.3645 - auroc: 0.77 - ETA: 23:04 - loss: 0.3644 - auroc: 0.77 - ETA: 23:03 - loss: 0.3642 - auroc: 0.76 - ETA: 23:01 - loss: 0.3637 - auroc: 0.77 - ETA: 23:00 - loss: 0.3633 - auroc: 0.77 - ETA: 22:59 - loss: 0.3622 - auroc: 0.77 - ETA: 22:57 - loss: 0.3625 - auroc: 0.77 - ETA: 22:56 - loss: 0.3621 - auroc: 0.77 - ETA: 22:54 - loss: 0.3627 - auroc: 0.77 - ETA: 22:53 - loss: 0.3629 - auroc: 0.77 - ETA: 22:52 - loss: 0.3621 - auroc: 0.77 - ETA: 22:50 - loss: 0.3623 - auroc: 0.77 - ETA: 22:49 - loss: 0.3621 - auroc: 0.77 - ETA: 22:48 - loss: 0.3617 - auroc: 0.77 - ETA: 22:46 - loss: 0.3627 - auroc: 0.77 - ETA: 22:45 - loss: 0.3622 - auroc: 0.77 - ETA: 22:44 - loss: 0.3626 - auroc: 0.77 - ETA: 22:42 - loss: 0.3623 - auroc: 0.77 - ETA: 22:41 - loss: 0.3623 - auroc: 0.77 - ETA: 22:39 - loss: 0.3649 - auroc: 0.77 - ETA: 22:39 - loss: 0.3651 - auroc: 0.77 - ETA: 22:37 - loss: 0.3647 - auroc: 0.77 - ETA: 22:36 - loss: 0.3644 - auroc: 0.77 - ETA: 22:34 - loss: 0.3626 - auroc: 0.77 - ETA: 22:33 - loss: 0.3617 - auroc: 0.77 - ETA: 22:32 - loss: 0.3613 - auroc: 0.77 - ETA: 22:31 - loss: 0.3602 - auroc: 0.77 - ETA: 22:29 - loss: 0.3611 - auroc: 0.77 - ETA: 22:28 - loss: 0.3601 - auroc: 0.77 - ETA: 22:26 - loss: 0.3608 - auroc: 0.77 - ETA: 22:25 - loss: 0.3603 - auroc: 0.77 - ETA: 22:24 - loss: 0.3597 - auroc: 0.77 - ETA: 22:22 - loss: 0.3593 - auroc: 0.77 - ETA: 22:21 - loss: 0.3591 - auroc: 0.77 - ETA: 22:19 - loss: 0.3582 - auroc: 0.77 - ETA: 22:18 - loss: 0.3576 - auroc: 0.77 - ETA: 22:17 - loss: 0.3581 - auroc: 0.77 - ETA: 22:15 - loss: 0.3581 - auroc: 0.77 - ETA: 22:14 - loss: 0.3574 - auroc: 0.77 - ETA: 22:13 - loss: 0.3572 - auroc: 0.77 - ETA: 22:11 - loss: 0.3582 - auroc: 0.77 - ETA: 22:10 - loss: 0.3595 - auroc: 0.77 - ETA: 22:09 - loss: 0.3596 - auroc: 0.77 - ETA: 22:07 - loss: 0.3595 - auroc: 0.77 - ETA: 22:06 - loss: 0.3598 - auroc: 0.77 - ETA: 22:05 - loss: 0.3599 - auroc: 0.77 - ETA: 22:04 - loss: 0.3600 - auroc: 0.77 - ETA: 22:03 - loss: 0.3601 - auroc: 0.77 - ETA: 22:02 - loss: 0.3605 - auroc: 0.77 - ETA: 22:01 - loss: 0.3613 - auroc: 0.77 - ETA: 22:00 - loss: 0.3622 - auroc: 0.77 - ETA: 21:59 - loss: 0.3623 - auroc: 0.77 - ETA: 21:58 - loss: 0.3618 - auroc: 0.77 - ETA: 21:57 - loss: 0.3620 - auroc: 0.77 - ETA: 21:55

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6 - loss: 0.3625 - auroc: 0.77 - ETA: 21:54 - loss: 0.3617 - auroc: 0.77 - ETA: 21:53 - loss: 0.36
08 - loss: 0.3625 - auroc: 0.77 - ETA: 21:51 - loss: 0.3614 - auroc: 0.77 - ETA: 21:50 - loss: 0.3618 - auroc: 0.
77 - ETA: 21:49 - loss: 0.3633 - auroc: 0.77 - ETA: 21:48 - loss: 0.3635 - auroc: 0.77 - ETA: 21:4
7 - loss: 0.3649 - auroc: 0.77 - ETA: 21:46 - loss: 0.3652 - auroc: 0.77 - ETA: 21:44 - loss: 0.36
51 - loss: 0.3649 - auroc: 0.77 - ETA: 21:43 - loss: 0.3649 - auroc: 0.77 - ETA: 21:42 - loss: 0.3648 - auroc: 0.
77 - ETA: 21:41 - loss: 0.3643 - auroc: 0.77 - ETA: 21:39 - loss: 0.3643 - auroc: 0.77 - ETA: 21:3
8 - loss: 0.3643 - auroc: 0.77 - ETA: 21:37 - loss: 0.3633 - auroc: 0.77 - ETA: 21:36 - loss: 0.36
25 - loss: 0.3643 - auroc: 0.77 - ETA: 21:35 - loss: 0.3623 - auroc: 0.77 - ETA: 21:34 - loss: 0.3621 - auroc: 0.
77 - ETA: 21:33 - loss: 0.3618 - auroc: 0.77 - ETA: 21:31 - loss: 0.3616 - auroc: 0.77 - ETA: 21:3
0 - loss: 0.3610 - auroc: 0.77 - ETA: 21:29 - loss: 0.3603 - auroc: 0.77 - ETA: 21:28 - loss: 0.36
04 - loss: 0.3610 - auroc: 0.77 - ETA: 21:26 - loss: 0.3603 - auroc: 0.77 - ETA: 21:25 - loss: 0.3602 - auroc: 0.
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92 - loss: 0.3594 - auroc: 0.77 - ETA: 21:18 - loss: 0.3592 - auroc: 0.77 - ETA: 21:16 - loss: 0.3601 - auroc: 0.
77 - ETA: 21:15 - loss: 0.3601 - auroc: 0.77 - ETA: 21:14 - loss: 0.3600 - auroc: 0.77 - ETA: 21:1
2 - loss: 0.3607 - auroc: 0.77 - ETA: 21:11 - loss: 0.3602 - auroc: 0.77 - ETA: 21:10 - loss: 0.36
03 - loss: 0.3607 - auroc: 0.77 - ETA: 21:09 - loss: 0.3605 - auroc: 0.77 - ETA: 21:07 - loss: 0.3602 - auroc: 0.
77 - ETA: 21:06 - loss: 0.3595 - auroc: 0.77 - ETA: 21:05 - loss: 0.3594 - auroc: 0.77 - ETA: 21:0
4 - loss: 0.3590 - auroc: 0.77 - ETA: 21:02 - loss: 0.3591 - auroc: 0.77 - ETA: 21:01 - loss: 0.35
91 - loss: 0.3594 - auroc: 0.77 - ETA: 21:00 - loss: 0.3588 - auroc: 0.77 - ETA: 20:58 - loss: 0.3586 - auroc: 0.
77 - ETA: 20:57 - loss: 0.3589 - auroc: 0.77 - ETA: 20:56 - loss: 0.3596 - auroc: 0.77 - ETA: 20:5
5 - loss: 0.3595 - auroc: 0.77 - ETA: 20:54 - loss: 0.3591 - auroc: 0.77 - ETA: 20:52 - loss: 0.35
92 - loss: 0.3594 - auroc: 0.77 - ETA: 20:51 - loss: 0.3593 - auroc: 0.77 - ETA: 20:50 - loss: 0.3592 - auroc: 0.
77 - ETA: 20:49 - loss: 0.3595 - auroc: 0.77 - ETA: 20:48 - loss: 0.3592 - auroc: 0.77 - ETA: 20:4
6 - loss: 0.3591 - auroc: 0.77 - ETA: 20:45 - loss: 0.3590 - auroc: 0.77 - ETA: 20:43 - loss: 0.35
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89 - loss: 0.3581 - auroc: 0.77 - ETA: 20:33 - loss: 0.3588 - auroc: 0.777924832/76473
[=====>.....] - ETA: 20:32 - loss: 0.3589 - auroc: 0.77 - ETA: 20:31 - loss: 0.
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0.77 - ETA: 20:27 - loss: 0.3579 - auroc: 0.77 - ETA: 20:25 - loss: 0.3573 - auroc: 0.77 - ETA: 20
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0.77 - ETA: 20:18 - loss: 0.3573 - auroc: 0.77 - ETA: 20:17 - loss: 0.3575 - auroc: 0.77 - ETA: 20
:16 - loss: 0.3575 - auroc: 0.77 - ETA: 20:14 - loss: 0.3576 - auroc: 0.77 - ETA: 20:13 - loss: 0.
3583 - loss: 0.3575 - auroc: 0.77 - ETA: 20:12 - loss: 0.3588 - auroc: 0.77 - ETA: 20:10 - loss: 0.3588 - auroc:
0.77 - ETA: 20:09 - loss: 0.3586 - auroc: 0.77 - ETA: 20:08 - loss: 0.3586 - auroc: 0.77 - ETA: 20
:07 - loss: 0.3583 - auroc: 0.77 - ETA: 20:05 - loss: 0.3584 - auroc: 0.77 - ETA: 20:04 - loss: 0.
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0.77 - ETA: 20:01 - loss: 0.3592 - auroc: 0.77 - ETA: 20:00 - loss: 0.3591 - auroc: 0.77 - ETA: 19
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0.77 - ETA: 19:44 - loss: 0.3596 - auroc: 0.77 - ETA: 19:43 - loss: 0.3600 - auroc: 0.77 - ETA: 19
:41 - loss: 0.3597 - auroc: 0.77 - ETA: 19:40 - loss: 0.3597 - auroc: 0.77 - ETA: 19:39 - loss: 0.
3597 - loss: 0.3597 - auroc: 0.77 - ETA: 19:37 - loss: 0.3599 - auroc: 0.77 - ETA: 19:36 - loss: 0.3597 - auroc:
0.77 - ETA: 19:35 - loss: 0.3594 - auroc: 0.77 - ETA: 19:34 - loss: 0.3593 - auroc: 0.77 - ETA: 19
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3608 - loss: 0.3608 - auroc: 0.77 - ETA: 19:20 - loss: 0.3606 - auroc: 0.77 - ETA: 19:19 - loss: 0.3606 - auroc:
0.77 - ETA: 19:18 - loss: 0.3606 - auroc: 0.77 - ETA: 19:16 - loss: 0.3609 - auroc: 0.77 - ETA: 19
:15 - loss: 0.3611 - auroc: 0.77 - ETA: 19:14 - loss: 0.3613 - auroc: 0.77 - ETA: 19:13 - loss: 0.
3609 - loss: 0.3611 - auroc: 0.77 - ETA: 19
```

```
:15 - loss: 0.3620 - auROC: 0.77 - ETA: 18:14 - loss: 0.3620 - auROC: 0.77 - ETA: 18:12 - loss: 0.  
3620 - auROC: 0.77 - ETA: 18:11 - loss: 0.3619 - auROC: 0.77 - ETA: 18:10 - loss: 0.3615 - auROC:  
0.77 - ETA: 18:09 - loss: 0.3612 - auROC: 0.77 - ETA: 18:07 - loss: 0.3612 - auROC: 0.77 - ETA: 18  
:06 - loss: 0.3613 - auROC: 0.77 - ETA: 18:05 - loss: 0.3614 - auROC: 0.77 - ETA: 18:04 - loss: 0.  
3616 - auROC: 0.77 - ETA: 18:02 - loss: 0.3620 - auROC: 0.77 - ETA: 18:01 - loss: 0.3621 - auROC:  
0.77 - ETA: 18:00 - loss: 0.3620 - auROC: 0.77 - ETA: 17:59 - loss: 0.3623 - auROC: 0.77 - ETA: 17  
:58 - loss: 0.3626 - auROC: 0.77 - ETA: 17:56 - loss: 0.3629 - auROC: 0.77 - ETA: 17:55 - loss: 0.  
3630 - auROC: 0.77 - ETA: 17:54 - loss: 0.3629 - auROC: 0.77 - ETA: 17:53 - loss: 0.3627 - auROC:  
0.77 - ETA: 17:51 - loss: 0.3624 - auROC: 0.77 - ETA: 17:50 - loss: 0.3621 - auROC: 0.77 - ETA: 17  
:49 - loss: 0.3618 - auROC: 0.77 - ETA: 17:48 - loss: 0.3621 - auROC: 0.77 - ETA: 17:47 - loss: 0.  
3621 - auROC: 0.77 - ETA: 17:45 - loss: 0.3620 - auROC: 0.77 - ETA: 17:44 - loss: 0.3618 - auROC:  
0.77 - ETA: 17:43 - loss: 0.3619 - auROC: 0.77 - ETA: 17:42 - loss: 0.3619 - auROC: 0.77 - ETA: 17  
:40 - loss: 0.3618 - auROC: 0.77 - ETA: 17:39 - loss: 0.3620 - auROC: 0.77 - ETA: 17:38 - loss: 0.  
3617 - auROC: 0.77 - ETA: 17:37 - loss: 0.3618 - auROC: 0.77 - ETA: 17:35 - loss: 0.3614 - auROC:  
0.77 - ETA: 17:34 - loss: 0.3617 - auROC: 0.77 - ETA: 17:33 - loss: 0.3619 - auROC: 0.77 - ETA: 17  
:32 - loss: 0.3618 - auROC: 0.77 - ETA: 17:31 - loss: 0.3624 - auROC: 0.77 - ETA: 17:29 - loss: 0.  
3621 - auROC: 0.77 - ETA: 17:28 - loss: 0.3620 - auROC: 0.77 - ETA: 17:27 - loss: 0.3618 - auROC:  
0.77 - ETA: 17:26 - loss: 0.3620 - auROC: 0.77 - ETA: 17:24 - loss: 0.3620 - auROC: 0.77 - ETA: 17  
:23 - loss: 0.3624 - auROC: 0.77 - ETA: 17:22 - loss: 0.3623 - auROC: 0.77 - ETA: 17:21 - loss: 0.  
3621 - auROC: 0.77 - ETA: 17:20 - loss: 0.3625 - auROC: 0.77 - ETA: 17:18 - loss: 0.3622 - auROC:  
0.77 - ETA: 17:17 - loss: 0.3620 - auROC: 0.77 - ETA: 17:16 - loss: 0.3622 - auROC: 0.77 - ETA: 17  
:15 - loss: 0.3621 - auROC: 0.77 - ETA: 17:13 - loss: 0.3621 - auROC: 0.77 - ETA: 17:12 - loss: 0.  
3618 - auROC: 0.77 - ETA: 17:11 - loss: 0.3620 - auROC: 0.77 - ETA: 17:10 - loss: 0.3619 - auROC:  
0.77 - ETA: 17:08 - loss: 0.3618 - auROC: 0.77 - ETA: 17:07 - loss: 0.3616 - auROC: 0.77 - ETA: 17  
:06 - loss: 0.3617 - auROC: 0.77 - ETA: 17:05 - loss: 0.3616 - auROC: 0.77 - ETA: 17:03 - loss: 0.  
3620 - auROC: 0.77 - ETA: 17:02 - loss: 0.3621 - auROC: 0.77 - ETA: 17:01 - loss: 0.3618 - auROC:  
0.77 - ETA: 16:59 - loss: 0.3617 - auROC: 0.77 - ETA: 16:58 - loss: 0.3615 - auROC: 0.77 - ETA: 16  
:57 - loss: 0.3615 - auROC: 0.77 - ETA: 16:56 - loss: 0.3617 - auROC: 0.77 - ETA: 16:54 - loss: 0.  
3614 - auROC: 0.77 - ETA: 16:53 - loss: 0.3616 - auROC: 0.77 - ETA: 16:52 - loss: 0.3614 - auROC:  
0.77 - ETA: 16:51 - loss: 0.3615 - auROC: 0.77 - ETA: 16:49 - loss: 0.3616 - auROC: 0.77 - ETA: 16  
:48 - loss: 0.3614 - auROC: 0.77 - ETA: 16:47 - loss: 0.3613 - auROC: 0.77 - ETA: 16:46 - loss: 0.  
3614 - auROC: 0.77 - ETA: 16:45 - loss: 0.3615 - auROC: 0.77 - ETA: 16:43 - loss: 0.3611 - auROC:  
0.77 - ETA: 16:42 - loss: 0.3613 - auROC: 0.77 - ETA: 16:41 - loss: 0.3612 - auROC: 0.77 - ETA: 16  
:40 - loss: 0.3612 - auROC: 0.77 - ETA: 16:38 - loss: 0.3610 - auROC: 0.77 - ETA: 16:37 - loss: 0.  
3610 - auROC: 0.77 - ETA: 16:36 - loss: 0.3609 - auROC: 0.77 - ETA: 16:35 - loss: 0.3610 - auROC:  
0.77 - ETA: 16:34 - loss: 0.3610 - auROC: 0.772737248/76473 [=====] - ETA  
: 16:32 - loss: 0.3610 - auROC: 0.77 - ETA: 16:31 - loss: 0.3609 - auROC: 0.77 - ETA: 16:30 - loss  
: 0.3608 - auROC: 0.77 - ETA: 16:29 - loss: 0.3607 - auROC: 0.77 - ETA: 16:27 - loss: 0.3605 - aur  
oc: 0.77 - ETA: 16:26 - loss: 0.3605 - auROC: 0.77 - ETA: 16:25 - loss: 0.3604 - auROC: 0.77 - ETA  
: 16:24 - loss: 0.3606 - auROC: 0.77 - ETA: 16:22 - loss: 0.3607 - auROC: 0.77 - ETA: 16:21 - loss  
: 0.3610 - auROC: 0.77 - ETA: 16:20 - loss: 0.3610 - auROC: 0.77 - ETA: 16:19 - loss: 0.3615 - aur  
oc: 0.77 - ETA: 16:17 - loss: 0.3614 - auROC: 0.77 - ETA: 16:16 - loss: 0.3613 - auROC: 0.77 - ETA  
: 16:15 - loss: 0.3616 - auROC: 0.77 - ETA: 16:14 - loss: 0.3615 - auROC: 0.77 - ETA: 16:12 - loss  
: 0.3619 - auROC: 0.77 - ETA: 16:11 - loss: 0.3618 - auROC: 0.77 - ETA: 16:10 - loss: 0.3617 - aur  
oc: 0.77 - ETA: 16:09 - loss: 0.3615 - auROC: 0.77 - ETA: 16:07 - loss: 0.3617 - auROC: 0.77 - ETA  
: 16:06 - loss: 0.3618 - auROC: 0.77 - ETA: 16:05 - loss: 0.3618 - auROC: 0.77 - ETA: 16:04 - loss  
: 0.3616 - auROC: 0.77 - ETA: 16:03 - loss: 0.3614 - auROC: 0.77 - ETA: 16:01 - loss: 0.3615 - aur  
oc: 0.77 - ETA: 16:00 - loss: 0.3616 - auROC: 0.77 - ETA: 15:59 - loss: 0.3615 - auROC: 0.77 - ETA  
: 15:58 - loss: 0.3613 - auROC: 0.77 - ETA: 15:57 - loss: 0.3613 - auROC: 0.77 - ETA: 15:55 - loss  
: 0.3613 - auROC: 0.77 - ETA: 15:54 - loss: 0.3611 - auROC: 0.77 - ETA: 15:53 - loss: 0.3610 - aur  
oc: 0.77 - ETA: 15:52 - loss: 0.3609 - auROC: 0.77 - ETA: 15:50 - loss: 0.3609 - auROC: 0.77 - ETA  
: 15:49 - loss: 0.3610 - auROC: 0.77 - ETA: 15:48 - loss: 0.3611 - auROC: 0.77 - ETA: 15:47 - loss  
: 0.3613 - auROC: 0.77 - ETA: 15:45 - loss: 0.3614 - auROC: 0.77 - ETA: 15:44 - loss: 0.3613 - aur  
oc: 0.77 - ETA: 15:43 - loss: 0.3613 - auROC: 0.77 - ETA: 15:42 - loss: 0.3612 - auROC: 0.77 - ETA  
: 15:40 - loss: 0.3614 - auROC: 0.77 - ETA: 15:39 - loss: 0.3617 - auROC: 0.77 - ETA: 15:38 - loss  
: 0.3616 - auROC: 0.77 - ETA: 15:37 - loss: 0.3614 - auROC: 0.77 - ETA: 15:35 - loss: 0.3614 - aur  
oc: 0.77 - ETA: 15:34 - loss: 0.3611 - auROC: 0.77 - ETA: 15:33 - loss: 0.3611 - auROC: 0.77 - ETA  
: 15:32 - loss: 0.3613 - auROC: 0.77 - ETA: 15:30 - loss: 0.3613 - auROC: 0.77 - ETA: 15:29 - loss  
: 0.3612 - auROC: 0.77 - ETA: 15:28 - loss: 0.3613 - auROC: 0.77 - ETA: 15:27 - loss: 0.3614 - aur  
oc: 0.77 - ETA: 15:25 - loss: 0.3615 - auROC: 0.77 - ETA: 15:24 - loss: 0.3615 - auROC: 0.77 - ETA  
: 15:23 - loss: 0.3616 - auROC: 0.77 - ETA: 15:22 - loss: 0.3614 - auROC: 0.77 - ETA: 15:20 - loss  
: 0.3613 - auROC: 0.7
```

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oc: 0.77 - ETA: 14:33 - loss: 0.3608 - auroc: 0.77 - ETA: 14:32 - loss: 0.3611 - auroc: 0.77 - ETA
: 14:31 - loss: 0.3611 - auroc: 0.77 - ETA: 14:30 - loss: 0.3611 - auroc: 0.77 - ETA: 14:28 - loss
: 0.3611 - auroc: 0.77 - ETA: 14:27 - loss: 0.3613 - auroc: 0.77 - ETA: 14:26 - loss: 0.3614 - aur
oc: 0.77 - ETA: 14:25 - loss: 0.3613 - auroc: 0.77 - ETA: 14:23 - loss: 0.3613 - auroc: 0.77 - ETA
: 14:22 - loss: 0.3614 - auroc: 0.77 - ETA: 14:21 - loss: 0.3613 - auroc: 0.77 - ETA: 14:20 - loss
: 0.3611 - auroc: 0.77 - ETA: 14:19 - loss: 0.3609 - auroc: 0.77 - ETA: 14:17 - loss: 0.3608 - aur
oc: 0.77 - ETA: 14:16 - loss: 0.3608 - auroc: 0.77 - ETA: 14:15 - loss: 0.3608 - auroc: 0.77 - ETA
: 14:14 - loss: 0.3608 - auroc: 0.77 - ETA: 14:12 - loss: 0.3605 - auroc: 0.77 - ETA: 14:11 - loss
: 0.3603 - auroc: 0.77 - ETA: 14:10 - loss: 0.3604 - auroc: 0.77 - ETA: 14:09 - loss: 0.3603 - aur
oc: 0.77 - ETA: 14:07 - loss: 0.3603 - auroc: 0.77 - ETA: 14:06 - loss: 0.3606 - auroc: 0.77 - ETA
: 14:05 - loss: 0.3604 - auroc: 0.77 - ETA: 14:04 - loss: 0.3603 - auroc: 0.77 - ETA: 14:03 - loss
: 0.3603 - auroc: 0.77 - ETA: 14:01 - loss: 0.3603 - auroc: 0.77 - ETA: 14:00 - loss: 0.3602 - aur
oc: 0.77 - ETA: 13:59 - loss: 0.3605 - auroc: 0.77 - ETA: 13:58 - loss: 0.3605 - auroc: 0.77 - ETA
: 13:56 - loss: 0.3603 - auroc: 0.77 - ETA: 13:55 - loss: 0.3605 - auroc: 0.77 - ETA: 13:54 - loss
: 0.3604 - auroc: 0.77 - ETA: 13:53 - loss: 0.3604 - auroc: 0.77 - ETA: 13:52 - loss: 0.3610 - aur
oc: 0.77 - ETA: 13:50 - loss: 0.3610 - auroc: 0.77 - ETA: 13:49 - loss: 0.3609 - auroc: 0.77 - ETA
: 13:48 - loss: 0.3609 - auroc: 0.77 - ETA: 13:47 - loss: 0.3609 - auroc: 0.77 - ETA: 13:45 - loss
: 0.3609 - auroc: 0.77 - ETA: 13:44 - loss: 0.3609 - auroc: 0.77 - ETA: 13:43 - loss: 0.3608 - aur
oc: 0.77 - ETA: 13:42 - loss: 0.3609 - auroc: 0.77 - ETA: 13:40 - loss: 0.3608 - auroc: 0.77 - ETA
: 13:39 - loss: 0.3606 - auroc: 0.77 - ETA: 13:38 - loss: 0.3607 - auroc: 0.77 - ETA: 13:37 - loss
: 0.3606 - auroc: 0.77 - ETA: 13:36 - loss: 0.3609 - auroc: 0.77 - ETA: 13:34 - loss: 0.3607 - aur
oc: 0.77 - ETA: 13:33 - loss: 0.3608 - auroc: 0.77 - ETA: 13:32 - loss: 0.3608 - auroc: 0.77 - ETA
: 13:31 - loss: 0.3609 - auroc: 0.77 - ETA: 13:30 - loss: 0.3610 - auroc: 0.77 - ETA: 13:28 - loss
: 0.3610 - auroc: 0.77 - ETA: 13:27 - loss: 0.3614 - auroc: 0.77 - ETA: 13:26 - loss: 0.3614 - aur
oc: 0.77 - ETA: 13:25 - loss: 0.3614 - auroc: 0.77 - ETA: 13:23 - loss: 0.3614 - auroc: 0.77 - ETA
: 13:22 - loss: 0.3615 - auroc: 0.77 - ETA: 13:21 - loss: 0.3618 - auroc: 0.77 - ETA: 13:20 - loss
: 0.3617 - auroc: 0.77 - ETA: 13:18 - loss: 0.3620 - auroc: 0.77 - ETA: 13:17 - loss: 0.3620 - aur
oc: 0.77 - ETA: 13:16 - loss: 0.3619 - auroc: 0.77 - ETA: 13:15 - loss: 0.3619 - auroc: 0.77 - ETA
: 13:14 - loss: 0.3618 - auroc: 0.77 - ETA: 13:12 - loss: 0.3617 - auroc: 0.77 - ETA: 13:11 - loss
: 0.3618 - auroc: 0.77 - ETA: 13:10 - loss: 0.3619 - auroc: 0.77 - ETA: 13:09 - loss: 0.3621 - aur
oc: 0.77 - ETA: 13:07 - loss: 0.3624 - auroc: 0.77 - ETA: 13:06 - loss: 0.3624 - auroc: 0.77 - ETA
: 13:05 - loss: 0.3626 - auroc: 0.77 - ETA: 13:04 - loss: 0.3626 - auroc: 0.77 - ETA: 13:03 - loss
: 0.3624 - auroc: 0.77 - ETA: 13:01 - loss: 0.3622 - auroc: 0.77 - ETA: 13:00 - loss: 0.3622 - aur
oc: 0.77 - ETA: 12:59 - loss: 0.3624 - auroc: 0.77 - ETA: 12:58 - loss: 0.3624 - auroc: 0.77 - ETA
: 12:56 - loss: 0.3627 - auroc: 0.77 - ETA: 12:55 - loss: 0.3626 - auroc: 0.77 - ETA: 12:54 - loss
: 0.3627 - auroc: 0.77 - ETA: 12:53 - loss: 0.3627 - auroc: 0.77 - ETA: 12:52 - loss: 0.3626 - aur
oc: 0.77 - ETA: 12:50 - loss: 0.3626 - auroc: 0.77 - ETA: 12:49 - loss: 0.3629 - auroc: 0.77 - ETA
: 12:48 - loss: 0.3630 - auroc: 0.77 - ETA: 12:47 - loss: 0.3629 - auroc: 0.77 - ETA: 12:45 - loss
: 0.3630 - auroc: 0.77 - ETA: 12:44 - loss: 0.3629 - auroc: 0.77 - ETA: 12:43 - loss: 0.3630 - aur
oc: 0.77 - ETA: 12:42 - loss: 0.3630 - auroc: 0.77 - ETA: 12:41 - loss: 0.3631 - auroc: 0.77 - ETA
: 12:39 - loss: 0.3631 - auroc: 0.77 - ETA: 12:38 - loss: 0.3629 - auroc: 0.77 - ETA: 12:37 - loss
: 0.3630 - auroc: 0.77 - ETA: 12:36 - loss: 0.3629 - auroc: 0.77 - ETA: 12:34 - loss: 0.3628 - aur
oc: 0.771249664/76473 [=====] - ETA: 12:33 - loss: 0.3630 - auroc: 0.77 -
ETA: 12:32 - loss: 0.3628 - auroc: 0.77 - ETA: 12:31 - loss: 0.3627 - auroc: 0.77 - ETA: 12:30 - 1
oss: 0.3627 - auroc: 0.77 - ETA: 12:28 - loss: 0.3627 - auroc: 0.77 - ETA: 12:27 - loss: 0.3628 -
auroc: 0.77 - ETA: 12:26 - loss: 0.3629 - auroc: 0.77 - ETA: 12:25 - loss: 0.3626 - auroc: 0.77 -
ETA: 12:23 - loss: 0.3627 - auroc: 0.77 - ETA: 12:22 - loss: 0.3626 - auroc: 0.77 - ETA: 12:21 - 1
oss: 0.3625 - auroc: 0.77 - ETA: 12:20 - loss: 0.3625 - auroc: 0.77 - ETA: 12:18 - loss: 0.3625 -
auroc: 0.77 - ETA: 12:17 - loss: 0.3623 - auroc: 0.77 - ETA: 12:16 - loss: 0.3624 - auroc: 0.77 -
ETA: 12:15 - loss: 0.3623 - auroc: 0.77 - ETA: 12:14 - loss: 0.3626 - auroc: 0.77 - ETA: 12:12 - 1
oss: 0.3625 - auroc: 0.77 - ETA: 12:11 - loss: 0.3629 - auroc: 0.77 - ETA: 12:10 - loss: 0.3629 -
auroc: 0.77 - ETA: 12:09 - loss: 0.3628 - auroc: 0.77 - ETA: 12:07 - loss: 0.3628 - auroc: 0.77 -
ETA: 12:06 - loss: 0.3628 - auroc: 0.77 - ETA: 12:05 - loss: 0.3629 - auroc: 0.77 - ETA: 12:04 - 1
oss: 0.3628 - auroc: 0.77 - ETA: 12:03 - loss: 0.3630 - auroc: 0.77 - ETA: 12:01 - loss: 0.3629 -
auroc: 0.77 - ETA: 12:00 - loss: 0.3631 - auroc: 0.77 - ETA: 11:59 - loss: 0.3631 - auroc: 0.77 -
ETA: 11:58 - loss: 0.3630 - auroc: 0.77 - ETA: 11:56 - loss: 0.3629 - auroc: 0.77 - ETA: 11:55 - 1
oss: 0.3629 - auroc: 0.77 - ETA: 11:54 - loss: 0.3628 - auroc: 0.77 - ETA: 11:53 - loss: 0.3628 -
auroc: 0.77 - ETA: 11:52 - loss: 0.3629 - auroc: 0.77 - ETA: 11:50 - loss: 0.3629 - auroc: 0.77 -
ETA: 11:49 - loss: 0.3627 - auroc: 0.77 - ETA: 11:48 - loss: 0.3627 - auroc: 0.77 - ETA: 11:47 - 1
oss: 0.3628 - auroc: 0.77 - ETA: 11:45 - loss: 0.3626 - auroc: 0.77 - ETA: 11:44 - loss
```

[illegible]

[illegible]

[illegible]

Epoch 00005: val_loss did not improve from 0.37754
Restoring model weights from the end of the best epoch

Epoch 00005: ReduceLROnPlateau reducing learning rate to 4.0000001899898055e-05.
Epoch 00005: early stopping

AUC Score

In [199]:

```
history = model_1.predict(test_data_1)
print("AUC score is {}".format(roc_auc_score(Y_test,history)))
```

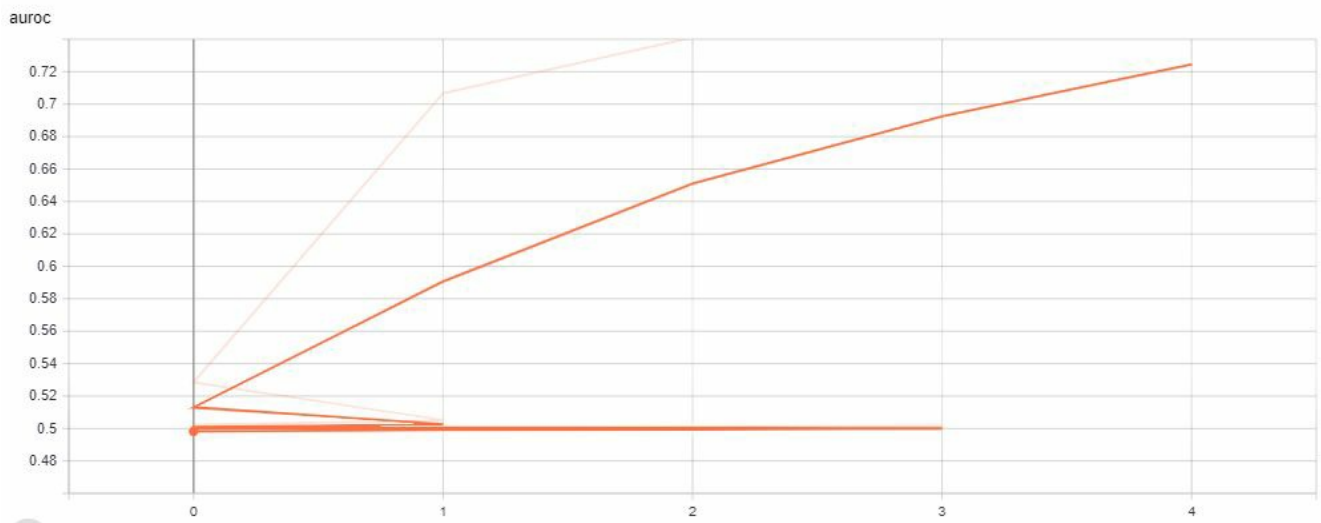
AUC score is 0.7478621969408079

Tensor Board Images

In [205]:

```
from IPython.display import Image
Image(filename='Model_1_1.jpg') #auroc
```

Out[205]:

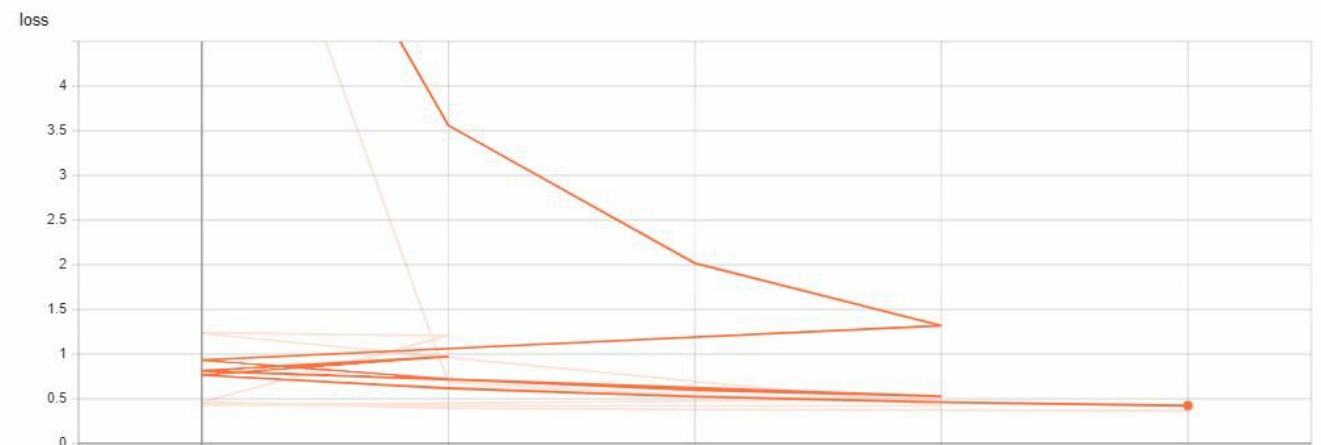


Loss

In [207]:

```
Image(filename='Model_1_2.jpg') #loss
```

Out[207]:

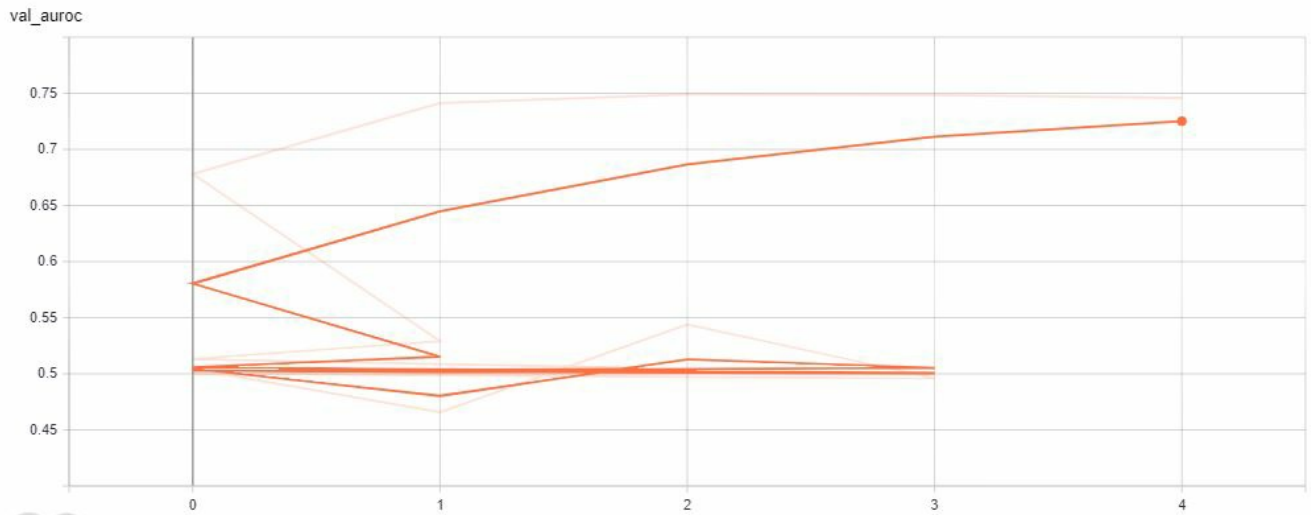


val_auroc

In [208]:

```
Image(filename='Model_1_3.jpg') #val_auroc
```

Out[208]:

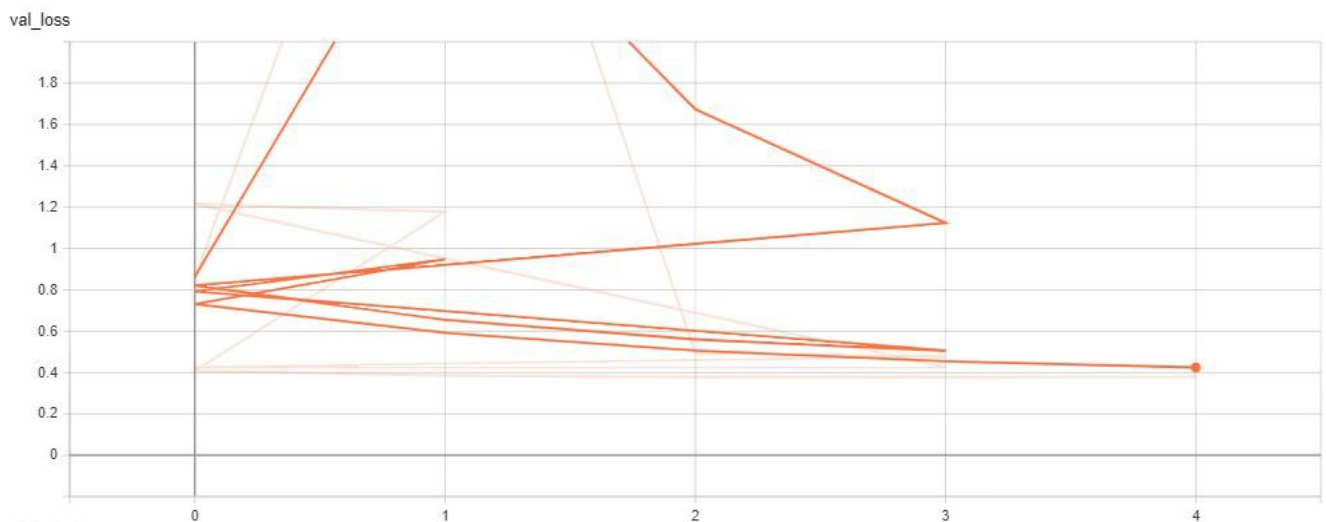


val_loss

In [209]:

```
Image(filename='Model_1_4.jpg') #val_loss
```

Out[209]:



Model 2

For Model 2 we will be using the layers from Model 1 and will taking the top frequency words based on essay layer

Calculating the idf values

In [46]:

```
# Filtering Text Data based on idf values
```

```
tfidf = TfidfVectorizer()
combine_tfidf = tfidf.fit_transform(x_train["essay"])
# converting to dictionary
combine_dict = dict(zip(tfidf.get_feature_names(),list(tfidf.idf_)))
```

In [47]:

```
d = {'word': tfidf.get_feature_names() , 'idf_value': tfidf.idf_}
tfidf_df = pd.DataFrame(data=d)
tfidf_df.set_index = 'idf_value'
```

In [48]:

```
tfidf_df.sort_values(by = 'idf_value' , inplace=True )
tfidf_df.set_index = 'idf_value'
tfidf_df.head(2)
```

Out[48]:

	word	idf_value
42141	students	1.008009
29358	nannan	1.046039

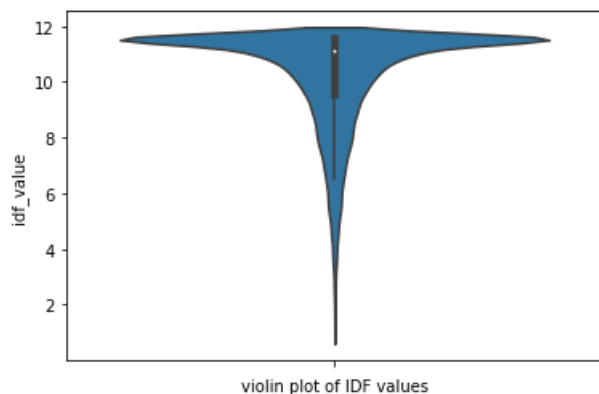
In [49]:

```
print("Min tf-idf value is: ",min(tfidf_df['idf_value']))
print("Max tf-idf value is: ",max(tfidf_df['idf_value']))
```

```
Min tf-idf value is: 1.0080085502013645
Max tf-idf value is: 11.551558912204982
```

In [50]:

```
fig , ax = plt.subplots()
ax = sns.violinplot(y=tfidf_df['idf_value'])
ax.set_xlabel("violin plot of IDF values")
plt.show()
```



In [51]:

```
print("Quantiles: 0-25-50-75")
print(np.percentile(tfidf_df['idf_value'],np.arange(0, 100, 25)))
print(np.percentile(tfidf_df['idf_value'] , 100))
```

```
Quantiles: 0-25-50-75
[ 1.00800855  9.53665589 11.1460938  11.55155891]
11.551558912204982
```

In [52]:

```
# we are only considering the values between 2 and 11
```

```
# we are only considering the values between 2 and 11
mask = (tfidf_df['idf_value']>=2) & (tfidf_df['idf_value'] <=11)
tfidf_selected = tfidf_df[mask]
print(tfidf_selected.shape)
```

```
(24391, 2)
```

In [53]:

```
corpus_selected = tfidf_selected['word'].tolist()
```

In [54]:

```
tokenizer = Tokenizer()
tokenizer.fit_on_texts(corpus_selected)
x_train['IntegerEncoding_2'] = tokenizer.texts_to_sequences(x_train['essay'].values)
x_test['IntegerEncoding_2'] = tokenizer.texts_to_sequences(x_test['essay'].values)
```

In [55]:

```
max_vocabulary = len(tokenizer.word_index)
```

In [57]:

```
# truncate and/or pad input sequences
# We will be using this as text input to our model
max_review_length = 500
text_padded_input_train = sequence.pad_sequences(x_train['IntegerEncoding_2'].values, maxlen=max_review_length, padding='post')
text_padded_input_test = sequence.pad_sequences(x_test['IntegerEncoding_2'].values, maxlen=max_review_length, padding='post')
```

In [58]:

```
import pickle
with open('glove_vectors', 'rb') as f:
    glove = pickle.load(f)
    glove_words = set(glove.keys())
```

In [59]:

```
from numpy import zeros
# create a weight matrix for words in training docs
embedding_matrix = zeros((max_vocabulary+1, 300))
for word, i in tokenizer.word_index.items():
    if word in glove_words:
        embedding_vector = glove[word]
        embedding_matrix[i] = embedding_vector
```

Essay layer

In [60]:

```
# text_input: meant to receive sequences of 500 integers, between 1 and max_vocabulary.
# Note that we can name any layer by passing it a "name" argument.
text_input = Input(shape=(500,), dtype='int32', name='text_input')
# This embedding layer will encode the input sequence
# into a sequence of dense 300 dimensional vectors.
x = Embedding(output_dim=300, input_dim=max_vocabulary+1, input_length=500, weights=[embedding_matrix], trainable=False)(text_input)
# A LSTM will transform the vector sequence into a single vector,
# containing information about the entire sequence
x = LSTM(32, return_sequences=True, kernel_regularizer=regularizers.l2(0.001))(x)
flatten_12= Flatten()(x)
```

In [61]:

```
# Concatenate all the flatten layers and numerical layer
```

```

# Concatenate all the flatten layers and numerical layer
print("Constructing Model2")
x_concat = concatenate([flatten_12 , flatten_2 , flatten_3 ,flatten_4 , flatten_5 , flatten_6 , num
_feats])
x = Dense(64, activation="relu", kernel_initializer="he_normal" ,kernel_regularizer=regularizers.l2
(0.001))(x_concat)
x=Dropout(0.2)(x)
x = Dense(32,activation="relu",kernel_initializer="he_normal" ,kernel_regularizer=regularizers.l2(0
.001))(x)
x = BatchNormalization()(x)
x=Dropout(0.2)(x)
x = Dense(16,activation="relu", kernel_initializer="he_normal" ,kernel_regularizer=regularizers.l2(
0.001))(x)
output = Dense(2, activation='sigmoid', name='output')(x)
model_2 = Model(inputs=[text_input,input_prefix,input_state,input_grade,
                        input_subcat,input_subcat_1,num_feats],outputs=[output])
print(model_2.summary())

```

Constructing Model2

Model: "model_2"

Layer (type)	Output Shape	Param #	Connected to
text_input (InputLayer)	(None, 500)	0	
embedding_2 (Embedding)	(None, 500, 300)	7317600	text_input[0][0]
teacher_prefix (InputLayer)	(None, 1)	0	
school_prefix (InputLayer)	(None, 1)	0	
grade_cat (InputLayer)	(None, 1)	0	
sub_cat (InputLayer)	(None, 1)	0	
sub_cat_1 (InputLayer)	(None, 1)	0	
lstm_2 (LSTM)	(None, 500, 32)	42624	embedding_2[0][0]
emb_pre (Embedding)	(None, 1, 3)	15	teacher_prefix[0][0]
emb_state (Embedding)	(None, 1, 26)	1326	school_prefix[0][0]
emb_grade (Embedding)	(None, 1, 2)	8	grade_cat[0][0]
emb_subcat (Embedding)	(None, 1, 26)	1326	sub_cat[0][0]
emb_subcat_1 (Embedding)	(None, 1, 50)	19650	sub_cat_1[0][0]
flatten_7 (Flatten)	(None, 16000)	0	lstm_2[0][0]
flatten_2 (Flatten)	(None, 3)	0	emb_pre[0][0]
flatten_3 (Flatten)	(None, 26)	0	emb_state[0][0]
flatten_4 (Flatten)	(None, 2)	0	emb_grade[0][0]
flatten_5 (Flatten)	(None, 26)	0	emb_subcat[0][0]
flatten_6 (Flatten)	(None, 50)	0	emb_subcat_1[0][0]
numerical_features (InputLayer)	(None, 3)	0	
concatenate_2 (Concatenate)	(None, 16110)	0	flatten_7[0][0] flatten_2[0][0] flatten_3[0][0] flatten_4[0][0] flatten_5[0][0] flatten_6[0][0] numerical_features[0][0]
dense_5 (Dense)	(None, 64)	1031104	concatenate_2[0][0]
dropout_3 (Dropout)	(None, 64)	0	dense_5[0][0]
dense_6 (Dense)	(None, 32)	2080	dropout_3[0][0]

batch_normalization_2 (BatchNor	(None, 32)	128	dense_6[0][0]
dropout_4 (Dropout)	(None, 32)	0	batch_normalization_2[0][0]
dense_7 (Dense)	(None, 16)	528	dropout_4[0][0]
output (Dense)	(None, 2)	34	dense_7[0][0]
=====			
Total params: 8,416,423			
Trainable params: 1,098,759			
Non-trainable params: 7,317,664			
None			

In [62]:

```
train_data_1 = [text_padded_input_train,encoder_prefix_train,encoder_state_train,
                encoder_grade_train,encoder_subcat_train,encoder_subcat_1_train,norm_train]
test_data_1 = [text_padded_input_test,encoder_prefix_test,encoder_state_test,encoder_grade_test,
               encoder_subcat_test,encoder_subcat_1_test,norm_test]
```

In [63]:

```
model_2.compile(loss='binary_crossentropy', optimizer='adam',metrics=[auroc])
```

Keeping verbosity 0

In [43]:

```
history_2 = model_2.fit(train_data_1,Y_train,batch_size=64,
                        epochs=20,validation_data=(test_data_1,Y_test),callbacks=callbacks_1, verbose = 0)
```

Auc Score

In [233]:

```
history = model_2.predict(test_data_1)
print("AUC score is {}".format(roc_auc_score(Y_test,history)))
```

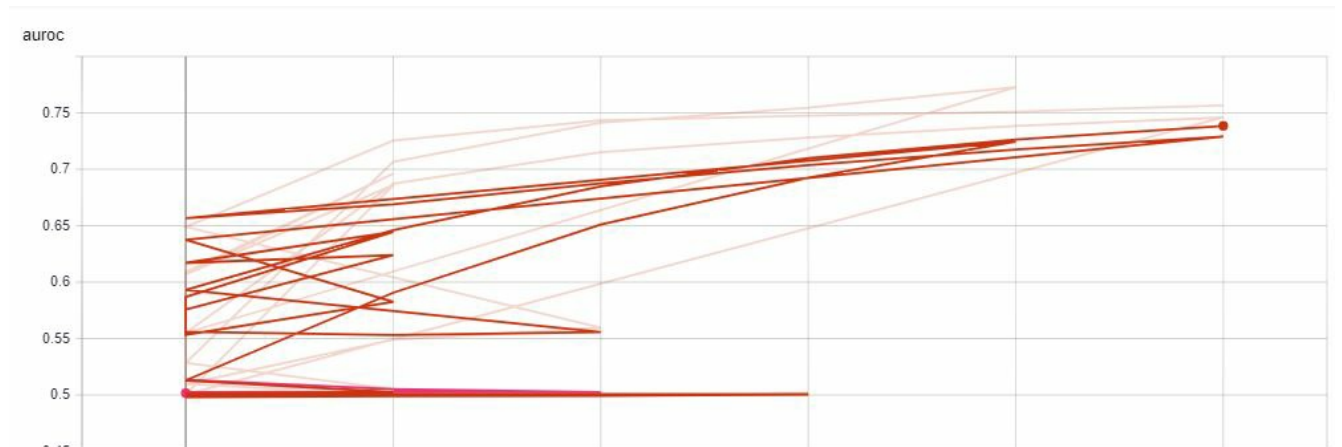
AUC score is 0.7535608117500832

Tensor board Images

In [2]:

```
from IPython.display import Image
Image(filename='Model_2_1.jpg') #auroc
```

Out[2]:

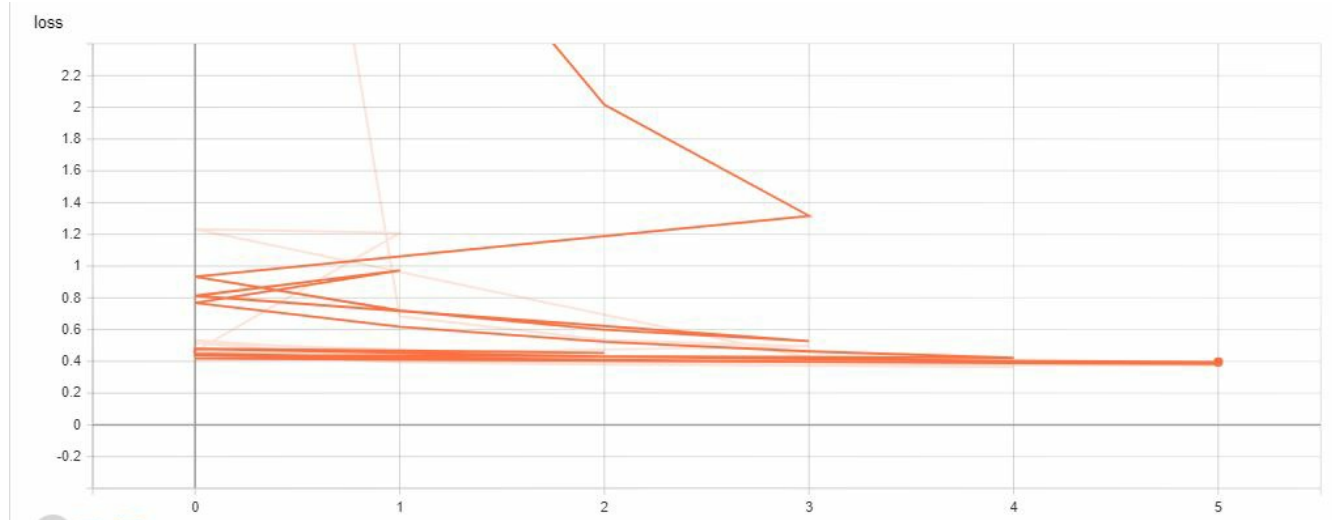




In [3]:

```
Image(filename='Model_2_2.jpg') #loss
```

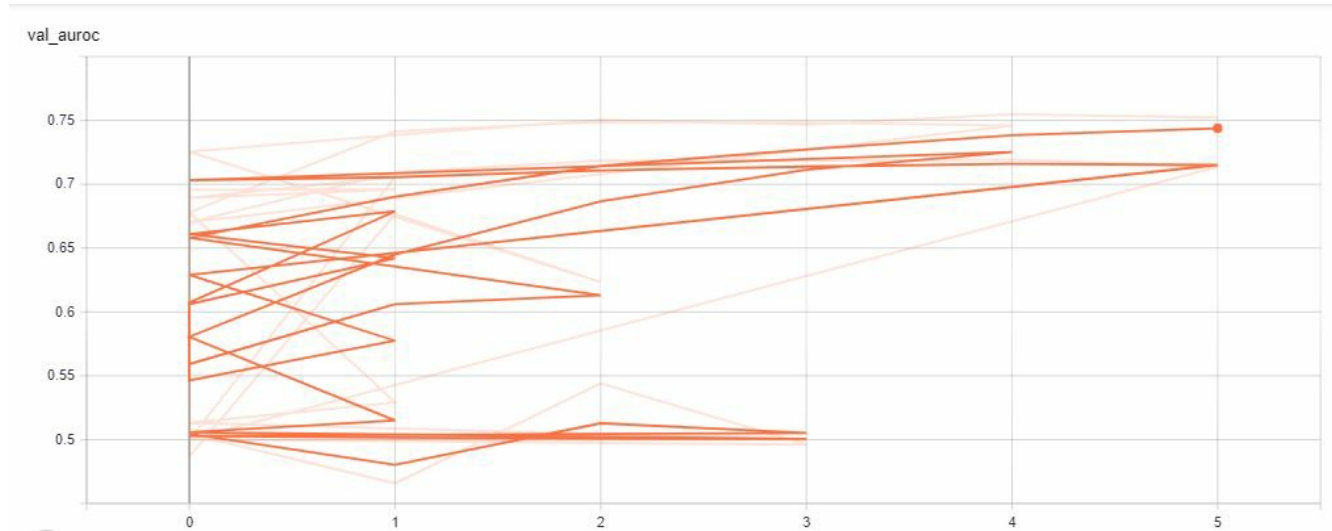
Out[3]:



In [4]:

```
Image(filename='Model_2_3.jpg') #val_auroc
```

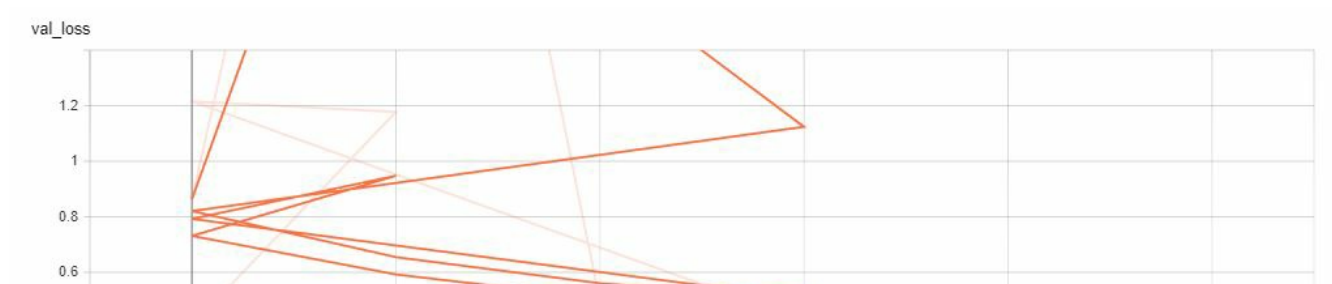
Out[4]:

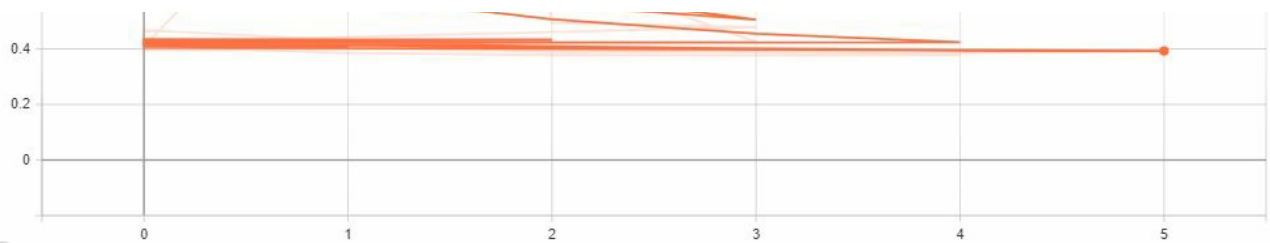


In [5]:

```
Image(filename='Model_2_4.jpg') #val_loss
```

Out[5]:





Model 3

In [64]:

```
print('Shape of train data :', encoded_train.shape)
print('Shape of test data :', encoded_test.shape)
```

Shape of train data : (76473, 350)
Shape of test data : (32775, 350)

Vectorizing all the categorical features using CountVectorizer

In [65]:

```
# Teacher prefix
vect = CountVectorizer(binary=True)
vect.fit(x_train["teacher_prefix"])
train_prefix = vect.transform(x_train["teacher_prefix"])
test_prefix = vect.transform(x_test["teacher_prefix"])
```

In [66]:

```
# School State
vect = CountVectorizer(binary=True)
vect.fit(x_train["school_state"])
train_state = vect.transform(x_train["school_state"])
test_state = vect.transform(x_test["school_state"])
```

In [67]:

```
# For project_grade_category
vect = CountVectorizer(binary=True)
vect.fit(x_train["project_grade_category"])
train_grade = vect.transform(x_train["project_grade_category"])
test_grade = vect.transform(x_test["project_grade_category"])
```

In [68]:

```
# For clean_categories
vect = CountVectorizer(binary=True)
vect.fit(x_train["clean_categories"])
train_subcat = vect.transform(x_train["clean_categories"])
test_subcat = vect.transform(x_test["clean_categories"])
```

In [69]:

```
# For clean_subcategories
vect = CountVectorizer(binary=True)
vect.fit(x_train["clean_subcategories"])
train_subcat_1 = vect.transform(x_train["clean_subcategories"])
test_subcat_1 = vect.transform(x_test["clean_subcategories"])
```

In [70]:

```
# Now we will prepare numerical features for our model
num_train_1=x_train['len_essay'].values.reshape(-1, 1)
num_train_2=x_train['price'].values.reshape(-1, 1)
```



```
num_train_3=x_train['teacher_number_of_previously_posted_projects'].values.reshape(-1, 1)
num_test_1=x_test['len_essay'].values.reshape(-1, 1)
num_test_2=x_test['price'].values.reshape(-1, 1)
num_test_3=x_test['teacher_number_of_previously_posted_projects'].values.reshape(-1, 1)
num_train=np.concatenate((num_train_1,num_train_2,num_train_3),axis=1)
num_test=np.concatenate((num_test_1,num_test_2,num_test_3),axis=1)
```

In [71]:

```
from sklearn.preprocessing import StandardScaler
norm=StandardScaler()
norm_train=norm.fit_transform(num_train)
norm_test=norm.transform(num_test)
```

In [72]:

```
from scipy.sparse import hstack
cat_train = hstack([train_prefix,train_state,train_grade,train_subcat,train_subcat_1]).todense()
cat_test = hstack([test_prefix,test_state,test_grade,test_subcat,test_subcat_1]).todense()
```

In [73]:

```
x_train = np.hstack((cat_train,norm_train))
x_test = np.hstack((cat_test,norm_test))
```

In [74]:

```
x_train.shape
```

Out[74]:

```
(76473, 102)
```

In [75]:

```
expnd_train = np.expand_dims(x_train,2)
expnd_test = np.expand_dims(x_test,2)
```

In [76]:

```
expnd_train.shape
```

Out[76]:

```
(76473, 102, 1)
```

Model Architecture

In [77]:

```
#https://keras.io/layers/convolutional/
inp_conv = Input(shape=(102, 1),name='features_all')
x1 = Conv1D(filters=128, kernel_size=3, activation='relu',kernel_initializer="he_normal")(inp_conv)
x1 = Conv1D(filters=128, kernel_size=3, activation='relu',kernel_initializer="he_normal")(x1)
x2 = Flatten()(x1)
```

In [78]:

```
print("Building Model-3")
x_concatenate = concatenate([flatten_1,x2])
x = Dense(16,activation="relu",kernel_initializer="he_normal",kernel_regularizer=regularizers.l2(0.001))(x_concatenate)
x=Dropout(0.5)(x)
x = Dense(8,activation="relu",kernel_initializer="he_normal",kernel_regularizer=regularizers.l2(0.001))(x)
x=Dropout(0.3)(x)
x = Dense(4,activation="relu",kernel_initializer="he_normal",kernel_regularizer=regularizers.l2(0.001))(x)
```

```
output = Dense(2, activation='sigmoid', name='output')(x)
model_3 = Model(inputs=[input_text,inp_conv],outputs=[output])
```

Building Model-3

In [79]:

```
train_data_3 = [encoded_train,expnd_train]
test_data_3 = [encoded_test,expnd_test]
from keras.utils import np_utils
Y_train = np_utils.to_categorical(y_train, 2)
Y_test = np_utils.to_categorical(y_test, 2)
```

In [80]:

```
checkpoint_3 = ModelCheckpoint("model_3.h5",monitor="val_auroc",mode="max",save_best_only =
True,verbose=1)

earlystop_3 = EarlyStopping(monitor = 'val_loss',mode="min",min_delta = 0,patience = 2,verbose = 1,
restore_best_weights = True)

reduce_lr_3 = ReduceLROnPlateau(monitor = 'val_auroc', factor = 0.2, patience = 2, verbose = 1, min
_delta = 0.0001)

tensorboard_3 = TensorBoard(log_dir='graph_3', histogram_freq=0, batch_size=512, write_graph=True,
write_grads=True, write_images=False, embeddings_freq=0, embeddings_layer_names=None,
embeddings_metadata=None, embeddings_data=None, update_freq='epoch')

callbacks_3 = [tensorboard_3,checkpoint_3,earlystop_3,reduce_lr_3]
```

In [82]:

```
model_3.summary()
```

Model: "model_3"

Layer (type)	Output Shape	Param #	Connected to
input_text (InputLayer)	(None, 350)	0	
features_all (InputLayer)	(None, 102, 1)	0	
embedding_1 (Embedding)	(None, 350, 300)	1500000	input_text[0][0]
conv1d_1 (Conv1D)	(None, 100, 128)	512	features_all[0][0]
lstm_1 (LSTM)	(None, 350, 4)	4880	embedding_1[0][0]
conv1d_2 (Conv1D)	(None, 98, 128)	49280	conv1d_1[0][0]
flatten_1 (Flatten)	(None, 1400)	0	lstm_1[0][0]
flatten_8 (Flatten)	(None, 12544)	0	conv1d_2[0][0]
concatenate_3 (Concatenate)	(None, 13944)	0	flatten_1[0][0] flatten_8[0][0]
dense_8 (Dense)	(None, 16)	223120	concatenate_3[0][0]
dropout_5 (Dropout)	(None, 16)	0	dense_8[0][0]
dense_9 (Dense)	(None, 8)	136	dropout_5[0][0]
dropout_6 (Dropout)	(None, 8)	0	dense_9[0][0]
dense_10 (Dense)	(None, 4)	36	dropout_6[0][0]
output (Dense)	(None, 2)	10	dense_10[0][0]

```
=====
Total params: 1,777,974
Trainable params: 277,974
Non-trainable params: 1,500,000
```

In [81]:

```
model_3.compile(optimizer='Adam', loss='binary_crossentropy', metrics=[auroc])
```

In [99]:

```
history_3 = model_3.fit(train_data_3,Y_train,batch_size=64,epochs=20,validation_data=(test_data_3,Y_test),callbacks=callbacks_3)
```

Train on 76473 samples, validate on 32775 samples

Epoch 1/20

```
12352/76473 [====>.....] - ETA: 27:47 - loss: 0.4128 - auroc: 0.74 - ETA: 17:1
7 - loss: 0.3817 - auroc: 0.72 - ETA: 13:39 - loss: 0.3799 - auroc: 0.73 - ETA: 11:51 - loss: 0.36
49 - auroc: 0.75 - ETA: 10:40 - loss: 0.4227 - auroc: 0.76 - ETA: 9:57 - loss: 0.4260 - auroc: 0.7
686 - ETA: 9:30 - loss: 0.4294 - auroc: 0.760 - ETA: 9:06 - loss: 0.4191 - auroc: 0.765 - ETA: 8:4
5 - loss: 0.4128 - auroc: 0.762 - ETA: 8:33 - loss: 0.3962 - auroc: 0.760 - ETA: 8:19 - loss: 0.39
90 - auroc: 0.744 - ETA: 8:10 - loss: 0.3973 - auroc: 0.742 - ETA: 8:03 - loss: 0.3995 - auroc: 0.
737 - ETA: 7:55 - loss: 0.4010 - auroc: 0.733 - ETA: 7:49 - loss: 0.4051 - auroc: 0.736 - ETA: 7:4
3 - loss: 0.4068 - auroc: 0.732 - ETA: 7:40 - loss: 0.4027 - auroc: 0.731 - ETA: 7:35 - loss: 0.39
71 - auroc: 0.736 - ETA: 7:32 - loss: 0.3966 - auroc: 0.737 - ETA: 7:30 - loss: 0.3972 - auroc: 0.
726 - ETA: 7:26 - loss: 0.3971 - auroc: 0.728 - ETA: 7:25 - loss: 0.3948 - auroc: 0.729 - ETA: 7:2
2 - loss: 0.3927 - auroc: 0.725 - ETA: 7:19 - loss: 0.3934 - auroc: 0.721 - ETA: 7:16 - loss: 0.39
70 - auroc: 0.722 - ETA: 7:13 - loss: 0.3930 - auroc: 0.726 - ETA: 7:10 - loss: 0.3987 - auroc: 0.
717 - ETA: 7:09 - loss: 0.3936 - auroc: 0.725 - ETA: 7:06 - loss: 0.3893 - auroc: 0.731 - ETA: 7:0
5 - loss: 0.3938 - auroc: 0.732 - ETA: 7:04 - loss: 0.3951 - auroc: 0.733 - ETA: 7:02 - loss: 0.39
19 - auroc: 0.734 - ETA: 7:00 - loss: 0.3903 - auroc: 0.740 - ETA: 6:59 - loss: 0.3894 - auroc: 0.
745 - ETA: 6:57 - loss: 0.3915 - auroc: 0.742 - ETA: 6:55 - loss: 0.3913 - auroc: 0.740 - ETA: 6:5
4 - loss: 0.3882 - auroc: 0.742 - ETA: 6:53 - loss: 0.3847 - auroc: 0.742 - ETA: 6:51 - loss: 0.38
45 - auroc: 0.739 - ETA: 6:51 - loss: 0.3840 - auroc: 0.740 - ETA: 6:49 - loss: 0.3832 - auroc: 0.
743 - ETA: 6:48 - loss: 0.3824 - auroc: 0.744 - ETA: 6:46 - loss: 0.3818 - auroc: 0.745 - ETA: 6:4
6 - loss: 0.3873 - auroc: 0.746 - ETA: 6:46 - loss: 0.3844 - auroc: 0.748 - ETA: 6:45 - loss: 0.38
46 - auroc: 0.750 - ETA: 6:44 - loss: 0.3850 - auroc: 0.751 - ETA: 6:44 - loss: 0.3843 - auroc: 0.
752 - ETA: 6:43 - loss: 0.3813 - auroc: 0.755 - ETA: 6:42 - loss: 0.3815 - auroc: 0.753 - ETA: 6:4
2 - loss: 0.3816 - auroc: 0.753 - ETA: 6:42 - loss: 0.3809 - auroc: 0.753 - ETA: 6:41 - loss: 0.38
19 - auroc: 0.750 - ETA: 6:40 - loss: 0.3828 - auroc: 0.752 - ETA: 6:40 - loss: 0.3846 - auroc: 0.
751 - ETA: 6:39 - loss: 0.3857 - auroc: 0.751 - ETA: 6:39 - loss: 0.3855 - auroc: 0.750 - ETA: 6:3
8 - loss: 0.3870 - auroc: 0.750 - ETA: 6:37 - loss: 0.3884 - auroc: 0.746 - ETA: 6:37 - loss: 0.38
79 - auroc: 0.746 - ETA: 6:36 - loss: 0.3883 - auroc: 0.747 - ETA: 6:35 - loss: 0.3890 - auroc: 0.
746 - ETA: 6:35 - loss: 0.3871 - auroc: 0.749 - ETA: 6:34 - loss: 0.3866 - auroc: 0.750 - ETA: 6:3
3 - loss: 0.3872 - auroc: 0.748 - ETA: 6:33 - loss: 0.3869 - auroc: 0.748 - ETA: 6:33 - loss: 0.38
70 - auroc: 0.749 - ETA: 6:32 - loss: 0.3898 - auroc: 0.747 - ETA: 6:31 - loss: 0.3877 - auroc: 0.
747 - ETA: 6:31 - loss: 0.3881 - auroc: 0.745 - ETA: 6:30 - loss: 0.3882 - auroc: 0.745 - ETA: 6:3
0 - loss: 0.3899 - auroc: 0.744 - ETA: 6:29 - loss: 0.3901 - auroc: 0.744 - ETA: 6:28 - loss: 0.38
95 - auroc: 0.745 - ETA: 6:28 - loss: 0.3888 - auroc: 0.743 - ETA: 6:27 - loss: 0.3894 - auroc: 0.
744 - ETA: 6:27 - loss: 0.3890 - auroc: 0.742 - ETA: 6:26 - loss: 0.3892 - auroc: 0.742 - ETA: 6:2
5 - loss: 0.3908 - auroc: 0.741 - ETA: 6:25 - loss: 0.3910 - auroc: 0.741 - ETA: 6:24 - loss: 0.39
09 - auroc: 0.741 - ETA: 6:24 - loss: 0.3904 - auroc: 0.742 - ETA: 6:23 - loss: 0.3901 - auroc: 0.
742 - ETA: 6:22 - loss: 0.3905 - auroc: 0.742 - ETA: 6:22 - loss: 0.3911 - auroc: 0.742 - ETA: 6:2
1 - loss: 0.3914 - auroc: 0.744 - ETA: 6:21 - loss: 0.3929 - auroc: 0.745 - ETA: 6:20 - loss: 0.39
35 - auroc: 0.745 - ETA: 6:20 - loss: 0.3928 - auroc: 0.746 - ETA: 6:19 - loss: 0.3923 - auroc: 0.
744 - ETA: 6:18 - loss: 0.3918 - auroc: 0.746 - ETA: 6:18 - loss: 0.3917 - auroc: 0.744 - ETA: 6:1
7 - loss: 0.3915 - auroc: 0.742 - ETA: 6:17 - loss: 0.3919 - auroc: 0.742 - ETA: 6:16 - loss: 0.39
18 - auroc: 0.742 - ETA: 6:16 - loss: 0.3908 - auroc: 0.742 - ETA: 6:16 - loss: 0.3906 - auroc: 0.
741 - ETA: 6:16 - loss: 0.3895 - auroc: 0.741 - ETA: 6:15 - loss: 0.3891 - auroc: 0.743 - ETA: 6:1
5 - loss: 0.3892 - auroc: 0.743 - ETA: 6:14 - loss: 0.3879 - auroc: 0.745 - ETA: 6:14 - loss: 0.38
79 - auroc: 0.745 - ETA: 6:13 - loss: 0.3877 - auroc: 0.745 - ETA: 6:13 - loss: 0.3878 - auroc: 0.
744 - ETA: 6:12 - loss: 0.3871 - auroc: 0.745 - ETA: 6:12 - loss: 0.3867 - auroc: 0.744 - ETA: 6:1
1 - loss: 0.3871 - auroc: 0.743 - ETA: 6:11 - loss: 0.3881 - auroc: 0.744 - ETA: 6:11 - loss: 0.38
79 - auroc: 0.744 - ETA: 6:10 - loss: 0.3880 - auroc: 0.745 - ETA: 6:10 - loss: 0.3897 - auroc: 0.
744 - ETA: 6:09 - loss: 0.3889 - auroc: 0.743 - ETA: 6:09 - loss: 0.3885 - auroc: 0.744 - ETA: 6:0
8 - loss: 0.3874 - auroc: 0.744 - ETA: 6:08 - loss: 0.3877 - auroc: 0.745 - ETA: 6:07 - loss: 0.38
69 - auroc: 0.747 - ETA: 6:07 - loss: 0.3877 - auroc: 0.745 - ETA: 6:07 - loss: 0.3871 - auroc: 0.
744 - ETA: 6:06 - loss: 0.3872 - auroc: 0.745 - ETA: 6:05 - loss: 0.3866 - auroc: 0.745 - ETA: 6:0
5 - loss: 0.3859 - auroc: 0.746 - ETA: 6:05 - loss: 0.3865 - auroc: 0.746 - ETA: 6:05 - loss: 0.38
63 - auroc: 0.746 - ETA: 6:04 - loss: 0.3869 - auroc: 0.745 - ETA: 6:04 - loss: 0.3858 - auroc: 0.
746 - ETA: 6:04 - loss: 0.3855 - auroc: 0.746 - ETA: 6:03 - loss: 0.3848 - auroc: 0.747 - ETA: 6:0
3 - loss: 0.3844 - auroc: 0.747 - ETA: 6:02 - loss: 0.3836 - auroc: 0.748 - ETA: 6:02 - loss: 0.38
29 - auroc: 0.748 - ETA: 6:02 - loss: 0.3835 - auroc: 0.748 - ETA: 6:01 - loss: 0.3829 - auroc: 0.
749 - ETA: 6:01 - loss: 0.3829 - auroc: 0.749 - ETA: 6:01 - loss: 0.3824 - auroc: 0.750 - ETA: 6:0
0 - loss: 0.3817 - auroc: 0.751 - ETA: 6:00 - loss: 0.3804 - auroc: 0.752 - ETA: 5:59 - loss: 0.37
94 - auroc: 0.752 - ETA: 5:59 - loss: 0.3803 - auroc: 0.752 - ETA: 5:58 - loss: 0.3797 - auroc: 0.
752 - ETA: 5:58 - loss: 0.3790 - auroc: 0.753 - ETA: 5:57 - loss: 0.3791 - auroc: 0.754 - ETA: 5:5
7 - loss: 0.3795 - auroc: 0.754 - ETA: 5:57 - loss: 0.3790 - auroc: 0.754 - ETA: 5:56 - loss: 0.37
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ETA: 6:20 - loss: 0.3510 - auroc: 0.773 - ETA: 6:19 - loss: 0.3541 - auroc: 0.773 - ETA: 6:19 - lo
ss: 0.3522 - auroc: 0.774 - ETA: 6:18 - loss: 0.3561 - auroc: 0.775 - ETA: 6:19 - loss: 0.3552 - a
uroc: 0.778 - ETA: 6:19 - loss: 0.3594 - auroc: 0.778 - ETA: 6:18 - loss: 0.3546 - auroc: 0.783 -
ETA: 6:17 - loss: 0.3589 - auroc: 0.779 - ETA: 6:17 - loss: 0.3630 - auroc: 0.780 - ETA: 6:16 - lo
ss: 0.3589 - auroc: 0.784 - ETA: 6:16 - loss: 0.3562 - auroc: 0.786 - ETA: 6:15 - loss: 0.3618 - a
uroc: 0.788 - ETA: 6:15 - loss: 0.3625 - auroc: 0.784 - ETA: 6:15 - loss: 0.3608 - auroc: 0.787 -
ETA: 6:14 - loss: 0.3594 - auroc: 0.785 - ETA: 6:14 - loss: 0.3571 - auroc: 0.787 - ETA: 6:13 - lo
ss: 0.3558 - auroc: 0.789 - ETA: 6:13 - loss: 0.3557 - auroc: 0.788 - ETA: 6:12 - loss: 0.3586 - a
uroc: 0.787 - ETA: 6:12 - loss: 0.3580 - auroc: 0.785 - ETA: 6:11 - loss: 0.3556 - auroc: 0.785 -
ETA: 6:11 - loss: 0.3549 - auroc: 0.787 - ETA: 6:11 - loss: 0.3540 - auroc: 0.786 - ETA: 6:11 - lo
ss: 0.3559 - auroc: 0.786 - ETA: 6:10 - loss: 0.3576 - auroc: 0.787 - ETA: 6:10 - loss: 0.3618 - a
uroc: 0.783 - ETA: 6:10 - loss: 0.3616 - auroc: 0.783 - ETA: 6:10 - loss: 0.3612 - auroc: 0.782 -
ETA: 6:09 - loss: 0.3611 - auroc: 0.783 - ETA: 6:09 - loss: 0.3600 - auroc: 0.784 - ETA: 6:09 - lo
ss: 0.3619 - auroc: 0.783 - ETA: 6:09 - loss: 0.3607 - auroc: 0.785 - ETA: 6:08 - loss: 0.3598 - a
uroc: 0.785 - ETA: 6:08 - loss: 0.3597 - auroc: 0.784 - ETA: 6:07 - loss: 0.3571 - auroc: 0.787 -
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uroc: 0.785 - ETA: 6:05 - loss: 0.3559 - auroc: 0.785 - ETA: 6:05 - loss: 0.3562 - auroc: 0.783 -
ETA: 6:05 - loss: 0.3569 - auroc: 0.784 - ETA: 6:04 - loss: 0.3560 - auroc: 0.784 - ETA: 6:04 - lo
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uroc: 0.784 - ETA: 6:02 - loss: 0.3565 - auroc: 0.784 - ETA: 6:02 - loss: 0.3582 - auroc: 0.783 -
ETA: 6:02 - loss: 0.3586 - auroc: 0.782 - ETA: 6:01 - loss: 0.3592 - auroc: 0.782 - ETA: 6:02 - lo
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uroc: 0.784 - ETA: 6:01 - loss: 0.3586 - auroc: 0.784 - ETA: 6:00 - loss: 0.3606 - auroc: 0.784 -
ETA: 6:00 - loss: 0.3603 - auroc: 0.783 - ETA: 5:59 - loss: 0.3610 - auroc: 0.781 - ETA: 5:59 - lo
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ETA: 5:57 - loss: 0.3629 - auroc: 0.776 - ETA: 5:57 - loss: 0.3640 - auroc: 0.773 - ETA: 5:57 - lo
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uroc: 0.773 - ETA: 5:56 - loss: 0.3639 - auroc: 0.774 - ETA: 5:55 - loss: 0.3647 - auroc: 0.773 -
ETA: 5:55 - loss: 0.3643 - auroc: 0.772 - ETA: 5:55 - loss: 0.3628 - auroc: 0.772 - ETA: 5:54 - lo
ss: 0.3625 - auroc: 0.772 - ETA: 5:54 - loss: 0.3627 - auroc: 0.771 - ETA: 5:54 - loss: 0.3625 - a
uroc: 0.770 - ETA: 5:54 - loss: 0.3612 - auroc: 0.771 - ETA: 5:53 - loss: 0.3612 - auroc: 0.771 -
ETA: 5:53 - loss: 0.3614 - auroc: 0.771 - ETA: 5:53 - loss: 0.3612 - auroc: 0.772 - ETA: 5:52 - lo
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uroc: 0.772 - ETA: 5:52 - loss: 0.3633 - auroc: 0.772 - ETA: 5:51 - loss: 0.3642 - auroc: 0.771 -
ETA: 5:51 - loss: 0.3636 - auroc: 0.772 - ETA: 5:51 - loss: 0.3641 - auroc: 0.773 - ETA: 5:50 - lo
ss: 0.3640 - auroc: 0.773 - ETA: 5:50 - loss: 0.3646 - auroc: 0.770 - ETA: 5:50 - loss: 0.3651 - a
uroc: 0.771 - ETA: 5:49 - loss: 0.3660 - auroc: 0.769 - ETA: 5:49 - loss: 0.3664 - auroc: 0.770 -
ETA: 5:49 - loss: 0.3663 - auroc: 0.770 - ETA: 5:48 - loss: 0.3654 - auroc: 0.770 - ETA: 5:48 - lo
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uroc: 0.769 - ETA: 5:47 - loss: 0.3664 - auroc: 0.769 - ETA: 5:47 - loss: 0.3664 - auroc: 0.768 -
ETA: 5:46 - loss: 0.3668 - auroc: 0.768 - ETA: 5:46 - loss: 0.3668 - auroc: 0.769 - ETA: 5:46 - lo
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uroc: 0.770 - ETA: 5:45 - loss: 0.3675 - auroc: 0.770 - ETA: 5:45 - loss: 0.3677 - auroc: 0.771 -
ETA: 5:44 - loss: 0.3669 - auroc: 0.772 - ETA: 5:44 - loss: 0.3660 - auroc: 0.773 - ETA: 5:44 - lo
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uroc: 0.773 - ETA: 5:43 - loss: 0.3662 - auroc: 0.773 - ETA: 5:42 - loss: 0.3661 - auroc: 0.773 -
ETA: 5:42 - loss: 0.3664 - auroc: 0.772 - ETA: 5:42 - loss: 0.3669 - auroc: 0.771 - ETA: 5:42 - lo
ss: 0.3672 - auroc: 0.771 - ETA: 5:41 - loss: 0.3670 - auroc: 0.772 - ETA: 5:41 - loss: 0.3670 - a
uroc: 0.771 - ETA: 5:40 - loss: 0.3676 - auroc: 0.771 - ETA: 5:40 - loss: 0.3669 - auroc: 0.772 -
ETA: 5:40 - loss: 0.3665 - auroc: 0.773 - ETA: 5:39 - loss: 0.3669 - auroc: 0.772 - ETA: 5:39 - lo
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ETA: 5:38 - loss: 0.3670 - auroc: 0.774 - ETA: 5:37 - loss: 0.3677 - auroc: 0.774 - ETA: 5:37 - lo
ss: 0.3681 - auroc: 0.774 - ETA: 5:37 - loss: 0.3685 - auroc: 0.774 - ETA: 5:37 - loss: 0.3683 - a
uroc: 0.774 - ETA: 5:36 - loss: 0.3685 - auroc: 0.774 - ETA: 5:36 - loss: 0.3688 - auroc: 0.773 -
ETA: 5:36 - loss: 0.3687 - auroc: 0.774 - ETA: 5:35 - loss: 0.3685 - auroc: 0.774 - ETA: 5:35 - lo
ss: 0.3685 - auroc: 0.774 - ETA: 
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ss: 0.3589 - auroc: 0.761 - ETA: 6:04 - loss: 0.3607 - auroc: 0.762 - ETA: 6:04 - loss: 0.3618 - a
uroc: 0.763 - ETA: 6:04 - loss: 0.3627 - auroc: 0.763 - ETA: 6:04 - loss: 0.3639 - auroc: 0.763 -
ETA: 6:04 - loss: 0.3636 - auroc: 0.764 - ETA: 6:04 - loss: 0.3628 - auroc: 0.765 - ETA: 6:04 - lo
ss: 0.3627 - auroc: 0.766 - ETA: 6:03 - loss: 0.3628 - auroc: 0.766 - ETA: 6:04 - loss: 0.3624 - a
uroc: 0.764 - ETA: 6:03 - loss: 0.3614 - auroc: 0.766 - ETA: 6:03 - loss: 0.3621 - auroc: 0.765 -
ETA: 6:03 - loss: 0.3629 - auroc: 0.764 - ETA: 6:02 - loss: 0.3615 - auroc: 0.766 - ETA: 6:02 - lo
ss: 0.3613 - auroc: 0.767 - ETA: 6:02 - loss: 0.3613 - auroc: 0.766 - ETA: 6:01 - loss: 0.3619 - a
uroc: 0.766 - ETA: 6:01 - loss: 0.3621 - auroc: 0.766 - ETA: 6:01 - loss: 0.3622 - auroc: 0.765 -
ETA: 6:00 - loss: 0.3617 - auroc: 0.765 - ETA: 6:00 - loss: 0.3610 - auroc: 0.764 - ETA: 5:59 - lo
ss: 0.3615 - auroc: 0.763 - ETA: 5:59 - loss: 0.3611 - auroc: 0.763 - ETA: 5:59 - loss: 0.3603 - a
uroc: 0.764 - ETA: 5:58 - loss: 0.3599 - auroc: 0.764 - ETA: 5:58 - loss: 0.3585 - auroc: 0.765 -
ETA: 5:57 - loss: 0.3588 - auroc: 0.764 - ETA: 5:57 - loss: 0.3601 - auroc: 0.763 - ETA: 5:57 - lo
ss: 0.3612 - auroc: 0.763 - ETA: 5:56 - loss: 0.3610 - auroc: 0.762 - ETA: 5:56 - loss: 0.3610 - a
uroc: 0.763 - ETA: 5:56 - loss: 0.3612 - auroc: 0.763 - ETA: 5:55 - loss: 0.3604 - auroc: 0.764 -
ETA: 5:56 - loss: 0.3603 - auroc: 0.764 - ETA: 5:55 - loss: 0.3625 - auroc: 0.763 - ETA: 5:55 - lo
ss: 0.3620 - auroc: 0.763 - ETA: 5:55 - loss: 0.3622 - auroc: 0.763 - ETA: 5:55 - loss: 0.3632 - a
uroc: 0.763 - ETA: 5:54 - loss: 0.3630 - auroc: 0.764 - ETA: 5:54 - loss: 0.3630 - auroc: 0.764 -
ETA: 5:54 - loss: 0.3628 - auroc: 0.763 - ETA: 5:53 - loss: 0.3623 - auroc: 0.762 - ETA: 5:53 - lo
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ETA: 5:51 - loss: 0.3624 - auroc: 0.764 - ETA: 5:51 - loss: 0.3620 - auroc: 0.763 - ETA: 5:51 - lo
ss: 0.3610 - auroc: 0.764 - ETA: 5:50 - loss: 0.3614 - auroc: 0.765 - ETA: 5:50 - loss: 0.3611 - a
uroc: 0.765 - ETA: 5:50 - loss: 0.3602 - auroc: 0.766 - ETA: 5:49 - loss: 0.3600 - auroc: 0.767 -
ETA: 5:49 - loss: 0.3601 - auroc: 0.768 - ETA: 5:49 - loss: 0.3604 - auroc: 0.768 - ETA: 5:49 - lo
ss: 0.3606 - auroc: 0.769 - ETA: 5:48 - loss: 0.3602 - auroc: 0.768 - ETA: 5:48 - loss: 0.3591 - a
uroc: 0.769 - ETA: 5:48 - loss: 0.3585 - auroc: 0.770 - ETA: 5:47 - loss: 0.3579 - auroc: 0.771 -
ETA: 5:47 - loss: 0.3582 - auroc: 0.771 - ETA: 5:47 - loss: 0.3580 - auroc: 0.770 - ETA: 5:46 - lo
ss: 0.3575 - auroc: 0.770 - ETA: 5:46 - loss: 0.3579 - auroc: 0.769 - ETA: 5:46 - loss: 0.3576 - a
uroc: 0.770 - ETA: 5:46 - loss: 0.3573 - auroc: 0.771 - ETA: 5:45 - loss: 0.3571 - auroc: 0.771 -
ETA: 5:45 - loss: 0.3586 - auroc: 0.770 - ETA: 5:44 - loss: 0.3593 - auroc: 0.770 - ETA: 5:44 - lo
ss: 0.3582 - auroc: 0.767 - ETA: 5:44 - loss: 0.3585 - auroc: 0.766 - ETA: 5:44 - loss: 0.3585 - a
uroc: 0.766 - ETA: 5:43 - loss: 0.3575 - auroc: 0.766 - ETA: 5:43 - loss: 0.3575 - auroc: 0.765 -
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uroc: 0.765 - ETA: 5:42 - loss: 0.3604 - auroc: 0.766 - ETA: 5:41 - loss: 0.3601 - auroc: 0.766 -
ETA: 5:41 - loss: 0.3598 - auroc: 0.767 - ETA: 5:41 - loss: 0.3595 - auroc: 0.767 - ETA: 5:41 - lo
ss: 0.3592 - auroc: 0.765 - ETA: 5:41 - loss: 0.3591 - auroc: 0.765 - ETA: 5:40 - loss: 0.3591 - a
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ETA: 5:40 - loss: 0.3603 - auroc: 0.764 - ETA: 5:40 - loss: 0.3599 - auroc: 0.765 - ETA: 5:40 - loss: 0.3596 - a
uroc: 0.764 - ETA: 5:40 - loss: 0.3604 - auroc: 0.764 - ETA: 5:40 - loss: 0.3608 - auroc: 0.764 -
ETA: 5:40 - loss: 0.3603 - auroc: 0.764 - ETA: 5:40 - loss: 0.3593 - auroc: 0.765 - ETA: 5:40 - lo
ss: 0.3595 - auroc: 0.765 - ETA: 5:40 - loss: 0.3597 - auroc: 0.764 - ETA: 5:39 - loss: 0.3593 - a
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ss: 0.3595 - auroc: 0.766 - ETA: 5:37 - loss: 0.3594 - auroc: 0.766 - ETA: 5:37 - loss: 0.3591 - a
uroc: 0.767 - ETA: 5:37 - loss: 0.3596 - auroc: 0.767 - ETA: 5:36 - loss: 0.3596 - auroc: 0.767 -
ETA: 5:36 - loss: 0.3600 - auroc: 0.766 - ETA: 5:36 - loss: 0.3598 - auroc: 0.765 - ETA: 5:35 - lo
ss: 0.3605 - auroc: 0.765 - ETA: 5:35 - loss: 0.3605 - auroc: 0.764 - ETA: 5:35 - loss: 0.3606 - a
uroc: 0.764 - ETA: 5:34 - loss: 0.3605 - auroc: 0.764 - ETA: 5:34 - loss: 0.3606 - auroc: 0.763 -
ETA: 5:34 - loss: 0.3603 - auroc: 0.764 - ETA: 5:33 - loss: 0.3600 - auroc: 0.764 - ETA: 5:33 - lo
ss: 0.3609 - auroc: 0.764 - ETA: 5:33 - loss: 0.3603 - auroc: 0.764 - ETA: 5:32 - loss: 0.3604 - a
uroc: 0.764 - ETA: 5:32 - loss: 0.3594 - auroc: 0.766024832/76473 [=====>.....]
- ETA: 5:32 - loss: 0.3599 - auroc: 0.765 - ETA: 5:31 - loss: 0.3601 - auroc: 0.765 - ETA: 5:31 -
loss: 0.3605 - auroc: 0.766 - ETA: 5:31 - loss: 0.3602 - auroc: 0.766 - ETA: 5:30 - loss: 0.3609 -
auroc: 0.766 - ETA: 5:30 - loss: 0.3612 - auroc: 0.766 - ETA: 5:30 - loss: 0.3616 - auroc: 0.766 -
ETA: 5:29 - loss: 0.3618 - auroc: 0.765 - ETA: 5:29 - loss: 0.3621 - auroc: 0.766 - ETA: 5:29 - lo
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uroc: 0.766 - ETA: 5:28 - loss: 0.3628 - auroc: 0.766 - ETA: 5:27 - loss: 0.3627 - auroc: 0.766 -
ETA: 5:27 - loss: 0.3628 - auroc: 0.
```

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[illegible]

[illegible]

- loss: 0.3704 - auroc: 0.76 - ETA: 14s - loss: 0.3705 - auroc: 0.76 - ETA: 14s - loss: 0.3705 - auroc: 0.76 - ETA: 14s - loss: 0.3705 - auroc: 0.76 - ETA: 13s - loss: 0.3705 - auroc: 0.76 - ETA: 13s - loss: 0.3705 - auroc: 0.76 - ETA: 13s - loss: 0.3706 - auroc: 0.76 - ETA: 12s - loss: 0.3705 - auroc: 0.76 - ETA: 12s - loss: 0.3705 - auroc: 0.76 - ETA: 12s - loss: 0.3706 - auroc: 0.76 - ETA: 11s - loss: 0.3705 - auroc: 0.76 - ETA: 11s - loss: 0.3705 - auroc: 0.76 - ETA: 11s - loss: 0.3705 - auroc: 0.76 - ETA: 10s - loss: 0.3706 - auroc: 0.76 - ETA: 10s - loss: 0.3705 - auroc: 0.76 - ETA: 10s - loss: 0.3705 - auroc: 0.76 - ETA: 9s - loss: 0.3706 - auroc: 0.7654 - ETA: 9s - loss: 0.3707 - auroc: 0.765 - ETA: 9s - loss: 0.3706 - auroc: 0.765 - ETA: 8s - loss: 0.3707 - auroc: 0.765 - ETA: 8s - loss: 0.3708 - auroc: 0.765 - ETA: 8s - loss: 0.3708 - auroc: 0.765 - ETA: 7s - loss: 0.3707 - auroc: 0.765 - ETA: 7s - loss: 0.3708 - auroc: 0.765576473/76473
[=====] - ETA: 7s - loss: 0.3707 - auroc: 0.765 - ETA: 6s - loss: 0.3708 - auroc: 0.765 - ETA: 6s - loss: 0.3708 - auroc: 0.765 - ETA: 6s - loss: 0.3707 - auroc: 0.765 - ETA: 5s - loss: 0.3707 - auroc: 0.765 - ETA: 5s - loss: 0.3707 - auroc: 0.765 - ETA: 5s - loss: 0.3707 - auroc: 0.765 - ETA: 4s - loss: 0.3705 - auroc: 0.765 - ETA: 4s - loss: 0.3705 - auroc: 0.765 - ETA: 4s - loss: 0.3705 - auroc: 0.765 - ETA: 3s - loss: 0.3705 - auroc: 0.765 - ETA: 3s - loss: 0.3706 - auroc: 0.765 - ETA: 3s - loss: 0.3707 - auroc: 0.765 - ETA: 3s - loss: 0.3707 - auroc: 0.765 - ETA: 2s - loss: 0.3708 - auroc: 0.765 - ETA: 2s - loss: 0.3708 - auroc: 0.765 - ETA: 2s - loss: 0.3708 - auroc: 0.765 - ETA: 1s - loss: 0.3708 - auroc: 0.765 - ETA: 1s - loss: 0.3707 - auroc: 0.765 - ETA: 1s - loss: 0.3707 - auroc: 0.765 - ETA: 0s - loss: 0.3707 - auroc: 0.765 - ETA: 0s - loss: 0.3708 - auroc: 0.765 - ETA: 0s - loss: 0.3708 - auroc: 0.765 - 448s 6ms/step - loss: 0.3708 - auroc: 0.7658 - val_loss: 0.3794 - val_auroc: 0.7633

Epoch 00003: val_auroc improved from 0.76259 to 0.76327, saving model to model_3.h5

Epoch 4/20

12416/76473 [==>.....] - ETA: 6:26 - loss: 0.2878 - auroc: 0.898 - ETA: 6:14 - loss: 0.3123 - auroc: 0.851 - ETA: 6:23 - loss: 0.3520 - auroc: 0.814 - ETA: 6:19 - loss: 0.3364 - auroc: 0.843 - ETA: 6:20 - loss: 0.3521 - auroc: 0.820 - ETA: 6:26 - loss: 0.3756 - auroc: 0.808 - ETA: 6:28 - loss: 0.3967 - auroc: 0.785 - ETA: 6:28 - loss: 0.4022 - auroc: 0.762 - ETA: 6:27 - loss: 0.3890 - auroc: 0.766 - ETA: 6:24 - loss: 0.3862 - auroc: 0.770 - ETA: 6:25 - loss: 0.3831 - auroc: 0.772 - ETA: 6:24 - loss: 0.3847 - auroc: 0.770 - ETA: 6:24 - loss: 0.3878 - auroc: 0.765 - ETA: 6:25 - loss: 0.3759 - auroc: 0.769 - ETA: 6:24 - loss: 0.3710 - auroc: 0.768 - ETA: 6:25 - loss: 0.3759 - auroc: 0.764 - ETA: 6:25 - loss: 0.3659 - auroc: 0.775 - ETA: 6:23 - loss: 0.3576 - auroc: 0.785 - ETA: 6:22 - loss: 0.3571 - auroc: 0.793 - ETA: 6:22 - loss: 0.3598 - auroc: 0.790 - ETA: 6:22 - loss: 0.3530 - auroc: 0.794 - ETA: 6:22 - loss: 0.3591 - auroc: 0.793 - ETA: 6:22 - loss: 0.3570 - auroc: 0.794 - ETA: 6:22 - loss: 0.3605 - auroc: 0.775 - ETA: 6:21 - loss: 0.3611 - auroc: 0.777 - ETA: 6:20 - loss: 0.3632 - auroc: 0.776 - ETA: 6:20 - loss: 0.3637 - auroc: 0.773 - ETA: 6:19 - loss: 0.3632 - auroc: 0.774 - ETA: 6:19 - loss: 0.3620 - auroc: 0.775 - ETA: 6:18 - loss: 0.3638 - auroc: 0.774 - ETA: 6:18 - loss: 0.3611 - auroc: 0.773 - ETA: 6:18 - loss: 0.3592 - auroc: 0.771 - ETA: 6:19 - loss: 0.3563 - auroc: 0.771 - ETA: 6:19 - loss: 0.3586 - auroc: 0.771 - ETA: 6:18 - loss: 0.3596 - auroc: 0.769 - ETA: 6:18 - loss: 0.3609 - auroc: 0.772 - ETA: 6:18 - loss: 0.3615 - auroc: 0.774 - ETA: 6:17 - loss: 0.3612 - auroc: 0.773 - ETA: 6:16 - loss: 0.3601 - auroc: 0.772 - ETA: 6:16 - loss: 0.3597 - auroc: 0.773 - ETA: 6:15 - loss: 0.3584 - auroc: 0.774 - ETA: 6:15 - loss: 0.3598 - auroc: 0.773 - ETA: 6:15 - loss: 0.3596 - auroc: 0.773 - ETA: 6:14 - loss: 0.3575 - auroc: 0.776 - ETA: 6:14 - loss: 0.3558 - auroc: 0.776 - ETA: 6:13 - loss: 0.3533 - auroc: 0.779 - ETA: 6:13 - loss: 0.3521 - auroc: 0.781 - ETA: 6:12 - loss: 0.3516 - auroc: 0.779 - ETA: 6:12 - loss: 0.3534 - auroc: 0.779 - ETA: 6:12 - loss: 0.3531 - auroc: 0.779 - ETA: 6:11 - loss: 0.3518 - auroc: 0.779 - ETA: 6:11 - loss: 0.3506 - auroc: 0.782 - ETA: 6:11 - loss: 0.3498 - auroc: 0.785 - ETA: 6:11 - loss: 0.3512 - auroc: 0.785 - ETA: 6:11 - loss: 0.3537 - auroc: 0.785 - ETA: 6:10 - loss: 0.3539 - auroc: 0.784 - ETA: 6:10 - loss: 0.3516 - auroc: 0.784 - ETA: 6:10 - loss: 0.3527 - auroc: 0.783 - ETA: 6:09 - loss: 0.3540 - auroc: 0.782 - ETA: 6:09 - loss: 0.3519 - auroc: 0.783 - ETA: 6:09 - loss: 0.3518 - auroc: 0.783 - ETA: 6:09 - loss: 0.3516 - auroc: 0.783 - ETA: 6:08 - loss: 0.3496 - auroc: 0.783 - ETA: 6:08 - loss: 0.3485 - auroc: 0.782 - ETA: 6:07 - loss: 0.3492 - auroc: 0.781 - ETA: 6:07 - loss: 0.3487 - auroc: 0.780 - ETA: 6:07 - loss: 0.3512 - auroc: 0.780 - ETA: 6:06 - loss: 0.3517 - auroc: 0.778 - ETA: 6:06 - loss: 0.3532 - auroc: 0.775 - ETA: 6:06 - loss: 0.3535 - auroc: 0.775 - ETA: 6:06 - loss: 0.3529 - auroc: 0.773 - ETA: 6:05 - loss: 0.3536 - auroc: 0.774 - ETA: 6:05 - loss: 0.3539 - auroc: 0.774 - ETA: 6:04 - loss: 0.3552 - auroc: 0.773 - ETA: 6:04 - loss: 0.3565 - auroc: 0.772 - ETA: 6:04 - loss: 0.3556 - auroc: 0.773 - ETA: 6:03 - loss: 0.3554 - auroc: 0.773 - ETA: 6:03 - loss: 0.3562 - auroc: 0.773 - ETA: 6:03 - loss: 0.3562 - auroc: 0.773 - ETA: 6:02 - loss: 0.3563 - auroc: 0.771 - ETA: 6:02 - loss: 0.3565 - auroc: 0.772 - ETA: 6:01 - loss: 0.3590 - auroc: 0.770 - ETA: 6:01 - loss: 0.3603 - auroc: 0.768 - ETA: 6:01 - loss: 0.3608 - auroc: 0.767 - ETA: 6:01 - loss: 0.3615 - auroc: 0.766 - ETA: 6:01 - loss: 0.3619 - auroc: 0.765 - ETA: 6:00 - loss: 0.3618 - auroc: 0.765 - ETA: 6:00 - loss: 0.3611 - auroc: 0.767 - ETA: 6:00 - loss: 0.3619 - auroc: 0.767 - ETA: 5:59 - loss: 0.3617 - auroc: 0.766 - ETA: 5:59 - loss: 0.3623 - auroc: 0.766 - ETA: 5:59 - loss: 0.3616 - auroc: 0.769 - ETA: 5:58 - loss: 0.3623 - auroc: 0.769 - ETA: 5:58 - loss: 0.3630 - auroc: 0.768 - ETA: 5:58 - loss: 0.3636 - auroc: 0.768 - ETA: 5:58 - loss: 0.3637 - auroc: 0.767 - ETA: 5:57 - loss: 0.3640 - auroc: 0.767 - ETA: 5:57 - loss: 0.3648 - auroc: 0.767 - ETA: 5:57 - loss: 0.3641 - auroc: 0.767 - ETA: 5:57 - loss: 0.3642 - auroc: 0.767 - ETA: 5:56 - loss: 0.3647 - auroc: 0.767 - ETA: 5:56 - loss: 0.3653 - auroc: 0.767 - ETA: 5:55 - loss: 0.3658 - auroc: 0.766 - ETA: 5:55 - loss: 0.3655 - auroc: 0.767 - ETA: 5:55 - loss: 0.3657 - auroc: 0.768 - ETA: 5:54 - loss: 0.3658 - auroc: 0.767 - ETA: 5:54 - loss: 0.3660 - auroc: 0.767 - ETA: 5:54 - loss: 0.3666 - auroc: 0.766 - ETA: 5:53 - loss: 0.3666 - auroc: 0.767 - ETA: 5:53 - loss: 0.3665 - auroc: 0.768 - ETA: 5:53 - loss: 0.3647 - auroc: 0.770 - ETA: 5:53 - loss: 0.3642 - auroc: 0.770 - ETA: 5:52 - loss: 0.3638 - auroc: 0.769 - ETA: 5:52 - loss: 0.3635 - auroc: 0.770 - ETA: 5:51 - loss: 0.3637 - auroc: 0.767 - ETA: 5:51 - loss: 0.3641 - auroc: 0.768 - ETA: 5:51 - loss: 0.3629 - auroc: 0.768 - ETA: 5:51 - loss: 0.3624 - auroc: 0.769 - ETA: 5:50 - loss: 0.3616 - auroc: 0.770 - ETA: 5:50 - loss: 0.3617 - auroc: 0.770 - ETA: 5:49 - loss: 0.3623 - auroc: 0.771 - ETA: 5:49 - loss: 0.3628 - auroc: 0.770 - ETA: 5:49 - loss: 0.3635 - a

```
uroc: 0.769 - ETA: 5:49 - loss: 0.3655 - auroc: 0.769 - ETA: 5:48 - loss: 0.3666 - auroc: 0.768 -
ETA: 5:48 - loss: 0.3669 - auroc: 0.768 - ETA: 5:48 - loss: 0.3660 - auroc: 0.769 - ETA: 5:47 - lo
ss: 0.3668 - auroc: 0.769 - ETA: 5:47 - loss: 0.3664 - auroc: 0.769 - ETA: 5:47 - loss: 0.3665 - a
uroc: 0.769 - ETA: 5:46 - loss: 0.3665 - auroc: 0.769 - ETA: 5:46 - loss: 0.3658 - auroc: 0.769 -
ETA: 5:45 - loss: 0.3661 - auroc: 0.769 - ETA: 5:45 - loss: 0.3666 - auroc: 0.769 - ETA: 5:45 - lo
ss: 0.3656 - auroc: 0.767 - ETA: 5:45 - loss: 0.3652 - auroc: 0.768 - ETA: 5:44 - loss: 0.3658 - a
uroc: 0.768 - ETA: 5:44 - loss: 0.3658 - auroc: 0.768 - ETA: 5:44 - loss: 0.3647 - auroc: 0.769 -
ETA: 5:44 - loss: 0.3640 - auroc: 0.769 - ETA: 5:43 - loss: 0.3642 - auroc: 0.769 - ETA: 5:43 - lo
ss: 0.3642 - auroc: 0.769 - ETA: 5:43 - loss: 0.3633 - auroc: 0.770 - ETA: 5:42 - loss: 0.3640 - a
uroc: 0.770 - ETA: 5:42 - loss: 0.3639 - auroc: 0.770 - ETA: 5:42 - loss: 0.3634 - auroc: 0.770 -
ETA: 5:41 - loss: 0.3648 - auroc: 0.769 - ETA: 5:41 - loss: 0.3645 - auroc: 0.770 - ETA: 5:41 - lo
ss: 0.3652 - auroc: 0.770 - ETA: 5:40 - loss: 0.3644 - auroc: 0.771 - ETA: 5:40 - loss: 0.3642 - a
uroc: 0.771 - ETA: 5:40 - loss: 0.3640 - auroc: 0.771 - ETA: 5:39 - loss: 0.3641 - auroc: 0.771 -
ETA: 5:39 - loss: 0.3642 - auroc: 0.770 - ETA: 5:39 - loss: 0.3646 - auroc: 0.769 - ETA: 5:38 - lo
ss: 0.3650 - auroc: 0.769 - ETA: 5:38 - loss: 0.3652 - auroc: 0.769 - ETA: 5:38 - loss: 0.3648 - a
uroc: 0.768 - ETA: 5:37 - loss: 0.3646 - auroc: 0.768 - ETA: 5:38 - loss: 0.3651 - auroc: 0.768 -
ETA: 5:38 - loss: 0.3644 - auroc: 0.768 - ETA: 5:38 - loss: 0.3648 - auroc: 0.768 - ETA: 5:37 - lo
ss: 0.3646 - auroc: 0.767 - ETA: 5:37 - loss: 0.3649 - auroc: 0.767 - ETA: 5:37 - loss: 0.3649 - a
uroc: 0.767 - ETA: 5:36 - loss: 0.3647 - auroc: 0.767 - ETA: 5:36 - loss: 0.3647 - auroc: 0.767 -
ETA: 5:35 - loss: 0.3648 - auroc: 0.767 - ETA: 5:35 - loss: 0.3655 - auroc: 0.766 - ETA: 5:35 - lo
ss: 0.3653 - auroc: 0.766 - ETA: 5:34 - loss: 0.3655 - auroc: 0.766 - ETA: 5:34 - loss: 0.3654 - a
uroc: 0.766 - ETA: 5:34 - loss: 0.3654 - auroc: 0.766 - ETA: 5:34 - loss: 0.3651 - auroc: 0.766 -
ETA: 5:33 - loss: 0.3653 - auroc: 0.766 - ETA: 5:33 - loss: 0.3654 - auroc: 0.767 - ETA: 5:33 - lo
ss: 0.3662 - auroc: 0.766 - ETA: 5:33 - loss: 0.3658 - auroc: 0.767 - ETA: 5:32 - loss: 0.3656 - a
uroc: 0.767 - ETA: 5:32 - loss: 0.3650 - auroc: 0.768 - ETA: 5:32 - loss: 0.3647 - auroc: 0.768 -
ETA: 5:31 - loss: 0.3650 - auroc: 0.768 - ETA: 5:31 - loss: 0.3650 - auroc: 0.767 - ETA: 5:31 - lo
ss: 0.3651 - auroc: 0.767 - ETA: 5:30 - loss: 0.3651 - auroc: 0.766 - ETA: 5:30 - loss: 0.3655 - a
uroc: 0.766 - ETA: 5:30 - loss: 0.3653 - auroc: 0.767 - ETA: 5:29 - loss: 0.3652 - auroc: 0.767 -
ETA: 5:29 - loss: 0.3649 - auroc: 0.767 - ETA: 5:29 - loss: 0.3651 - auroc: 0.767 - ETA: 5:28 - lo
ss: 0.3650 - auroc: 0.768 - ETA: 5:28 - loss: 0.3644 - auroc: 0.769 - ETA: 5:28 - loss: 0.3643 - a
uroc: 0.769 - ETA: 5:27 - loss: 0.3647 - auroc: 0.769324832/76473 [=====>.....]
- ETA: 5:27 - loss: 0.3646 - auroc: 0.769 - ETA: 5:27 - loss: 0.3651 - auroc: 0.769 - ETA: 5:26 -
loss: 0.3653 - auroc: 0.770 - ETA: 5:26 - loss: 0.3652 - auroc: 0.770 - ETA: 5:26 - loss: 0.3663 -
auroc: 0.769 - ETA: 5:25 - loss: 0.3661 - auroc: 0.769 - ETA: 5:25 - loss: 0.3663 - auroc: 0.770 -
ETA: 5:25 - loss: 0.3665 - auroc: 0.770 - ETA: 5:24 - loss: 0.3669 - auroc: 0.769 - ETA: 5:24 - lo
ss: 0.3669 - auroc: 0.769 - ETA: 5:23 - loss: 0.3665 - auroc: 0.768 - ETA: 5:23 - loss: 0.3659 - a
uroc: 0.769 - ETA: 5:23 - loss: 0.3664 - auroc: 0.768 - ETA: 5:22 - loss: 0.3667 - auroc: 0.768 -
ETA: 5:22 - loss: 0.3662 - auroc: 0.769 - ETA: 5:22 - loss: 0.3660 - auroc: 0.767 - ETA: 5:22 - lo
ss: 0.3660 - auroc: 0.766 - ETA: 5:21 - loss: 0.3661 - auroc: 0.766 - ETA: 5:21 - loss: 0.3660 - a
uroc: 0.766 - ETA: 5:21 - loss: 0.3658 - auroc: 0.766 - ETA: 5:20 - loss: 0.3660 - auroc: 0.766 -
ETA: 5:20 - loss: 0.3657 - auroc: 0.766 - ETA: 5:20 - loss: 0.3653 - auroc: 0.766 - ETA: 5:19 - lo
ss: 0.3651 - auroc: 0.766 - ETA: 5:19 - loss: 0.3648 - auroc: 0.766 - ETA: 5:18 - loss: 0.3645 - a
uroc: 0.765 - ETA: 5:18 - loss: 0.3651 - auroc: 0.765 - ETA: 5:18 - loss: 0.3647 - auroc: 0.765 -
ETA: 5:17 - loss: 0.3658 - auroc: 0.765 - ETA: 5:17 - loss: 0.3660 - auroc: 0.765 - ETA: 5:17 - lo
ss: 0.3659 - auroc: 0.766 - ETA: 5:16 - loss: 0.3658 - auroc: 0.766 - ETA: 5:16 - loss: 0.3658 - a
uroc: 0.767 - ETA: 5:16 - loss: 0.3661 - auroc: 0.767 - ETA: 5:15 - loss: 0.3661 - auroc: 0.767 -
ETA: 5:15 - loss: 0.3662 - auroc: 0.767 - ETA: 5:15 - loss: 0.3659 - auroc: 0.767 - ETA: 5:14 - lo
ss: 0.3656 - auroc: 0.767 - ETA: 5:14 - loss: 0.3652 - auroc: 0.767 - ETA: 5:14 - loss: 0.3655 - a
uroc: 0.767 - ETA: 5:13 - loss: 0.3654 - auroc: 0.767 - ETA: 5:13 - loss: 0.3650 - auroc: 0.767 -
ETA: 5:13 - loss: 0.3653 - auroc: 0.767 - ETA: 5:12 - loss: 0.3654 - auroc: 0.767 - ETA: 5:12 - lo
ss: 0.3650 - auroc: 0.766 - ETA: 5:12 - loss: 0.3652 - auroc: 0.767 - ETA: 5:11 - loss: 0.3651 - a
uroc: 0.767 - ETA: 5:11 - loss: 0.3652 - auroc: 0.767 - ETA: 5:11 - loss: 0.3646 - auroc: 0.768 -
ETA: 5:10 - loss: 0.3645 - auroc: 0.768 - ETA: 5:10 - loss: 0.3647 - auroc: 0.768 - ETA: 5:10 - lo
ss: 0.3648 - auroc: 0.768 - ETA: 5:09 - loss: 0.3647 - auroc: 0.768 - ETA: 5:09 - loss: 0.3651 - a
uroc: 0.768 - ETA: 5:09 - loss: 0.3649 - auroc: 0.768 - ETA: 5:08 - loss: 0.3653 - auroc: 0.768 -
ETA: 5:08 - loss: 0.3651 - auroc: 0.768 - ETA: 5:08 - loss: 0.3650 - auroc: 0.768 - ETA: 5:07 - lo
ss: 0.3646 - auroc: 0.769 - ETA: 5:07 - loss: 0.3649 - auroc: 0.768 - ETA: 5:07 - loss: 0.3647 - a
uroc: 0.769 - ETA: 5:06 - loss: 0.3650 - auroc: 0.769 - ETA: 5:06 - loss: 0.3652 - auroc: 0.768 -
ETA: 5:06 - loss: 0.3653 - auroc: 0.768 - ETA: 5:05 - loss: 0.3652 - auroc: 0.768 - ETA: 5:05 - lo
ss: 0.3651 - auroc: 0.769 - ETA: 5:05 - loss: 0.3
```


[illegible]

[illegible]

[illegible]

Epoch 00004: val_auroc did not improve from 0.76321

Epoch 5/20

12416/76473 [==>.....] - ETA: 7:02 - loss: 0.4045 - auroc: 0.682 - ETA: 6:40
- loss: 0.3563 - auroc: 0.691 - ETA: 6:59 - loss: 0.3287 - auroc: 0.696 - ETA: 6:53 - loss: 0.3447
- auroc: 0.734 - ETA: 6:51 - loss: 0.3622 - auroc: 0.740 - ETA: 6:46 - loss: 0.3630 - auroc: 0.735
- ETA: 6:48 - loss: 0.3572 - auroc: 0.737 - ETA: 6:49 - loss: 0.3582 - auroc: 0.725 - ETA: 6:47 -
loss: 0.3482 - auroc: 0.746 - ETA: 6:46 - loss: 0.3540 - auroc: 0.755 - ETA: 6:51 - loss: 0.3464 -
auroc: 0.761 - ETA: 6:51 - loss: 0.3528 - auroc: 0.760 - ETA: 6:53 - loss: 0.3543 - auroc: 0.765 -
ETA: 6:55 - loss: 0.3511 - auroc: 0.768 - ETA: 6:53 - loss: 0.3512 - auroc: 0.768 - ETA: 6:52 - lo
ss: 0.3582 - auroc: 0.761 - ETA: 6:50 - loss: 0.3665 - auroc: 0.759 - ETA: 6:49 - loss: 0.3634 - a
uroc: 0.766 - ETA: 6:50 - loss: 0.3668 - auroc: 0.767 - ETA: 6:50 - loss: 0.3618 - auroc: 0.775 -
ETA: 6:50 - loss: 0.3643 - auroc: 0.769 - ETA: 6:49 - loss: 0.3619 - auroc: 0.773 - ETA: 6:48 - lo
ss: 0.3601 - auroc: 0.773 - ETA: 6:47 - loss: 0.3608 - auroc: 0.772 - ETA: 6:45 - loss: 0.3632 - a
uroc: 0.773 - ETA: 6:44 - loss: 0.3617 - auroc: 0.777 - ETA: 6:43 - loss: 0.3630 - auroc: 0.780 -
ETA: 6:42 - loss: 0.3631 - auroc: 0.782 - ETA: 6:42 - loss: 0.3661 - auroc: 0.780 - ETA: 6:41 - lo
ss: 0.3661 - auroc: 0.780 - ETA: 6:40 - loss: 0.3648 - auroc: 0.779 - ETA: 6:40 - loss: 0.3636 - a
uroc: 0.781 - ETA: 6:39 - loss: 0.3623 - auroc: 0.778 - ETA: 6:39 - loss: 0.3625 - auroc: 0.778 -
ETA: 6:38 - loss: 0.3633 - auroc: 0.776 - ETA: 6:37 - loss: 0.3626 - auroc: 0.772 - ETA: 6:36 - lo
ss: 0.3630 - auroc: 0.770 - ETA: 6:34 - loss: 0.3647 - auroc: 0.767 - ETA: 6:34 - loss: 0.3687 - a
uroc: 0.765 - ETA: 6:34 - loss: 0.3692 - auroc: 0.768 - ETA: 6:34 - loss: 0.3683 - auroc: 0.765 -
ETA: 6:34 - loss: 0.3670 - auroc: 0.768 - ETA: 6:34 - loss: 0.3689 - auroc: 0.766 - ETA: 6:34 - lo
ss: 0.3712 - auroc: 0.764 - ETA: 6:33 - loss: 0.3699 - auroc: 0.766 - ETA: 6:33 - loss: 0.3700 - a
uroc: 0.764 - ETA: 6:33 - loss: 0.3739 - auroc: 0.763 - ETA: 6:33 - loss: 0.3741 - auroc: 0.762 -
ETA: 6:32 - loss: 0.3735 - auroc: 0.763 - ETA: 6:32 - loss: 0.3719 - auroc: 0.764 - ETA: 6:31 - lo
ss: 0.3699 - auroc: 0.765 - ETA: 6:30 - loss: 0.3693 - auroc: 0.762 - ETA: 6:30 - loss: 0.3670 - a
uroc: 0.765 - ETA: 6:29 - loss: 0.3660 - auroc: 0.765 - ETA: 6:29 - loss: 0.3650 - auroc: 0.766 -
ETA: 6:29 - loss: 0.3663 - auroc: 0.767 - ETA: 6:28 - loss: 0.3666 - auroc: 0.768 - ETA: 6:28 - lo
ss: 0.3651 - auroc: 0.767 - ETA: 6:27 - loss: 0.3669 - auroc: 0.766 - ETA: 6:27 - loss: 0.3657 - a
uroc: 0.767 - ETA: 6:27 - loss: 0.3647 - auroc: 0.768 - ETA: 6:26 - loss: 0.3630 - auroc: 0.769 -
ETA: 6:26 - loss: 0.3646 - auroc: 0.768 - ETA: 6:25 - loss: 0.3631 - auroc: 0.770 - ETA: 6:25 - lo
ss: 0.3631 - auroc: 0.772 - ETA: 6:25 - loss: 0.3653 - auroc: 0.771 - ETA: 6:24 - loss: 0.3675 - a
uroc: 0.770 - ETA: 6:24 - loss: 0.3670 - auroc: 0.770 - ETA: 6:24 - loss: 0.3673 - auroc: 0.770 -
ETA: 6:24 - loss: 0.3669 - auroc: 0.771 - ETA: 6:24 - loss: 0.3655 - auroc: 0.772 - ETA: 6:24 - lo
ss: 0.3663 - auroc: 0.772 - ETA: 6:24 - loss: 0.3662 - auroc: 0.772 - ETA: 6:23 - loss: 0.3664 - a
uroc: 0.772 - ETA: 6:22 - loss: 0.3672 - auroc: 0.767 - ETA: 6:23 - loss: 0.3682 - auroc: 0.766 -
ETA: 6:22 - loss: 0.3679 - auroc: 0.766 - ETA: 6:21 - loss: 0.3682 - auroc: 0.767 - ETA: 6:21 - lo
ss: 0.3669 - auroc: 0.769 - ETA: 6:20 - loss: 0.3679 - auroc: 0.768 - ETA: 6:20 - loss: 0.3688 - a
uroc: 0.769 - ETA: 6:19 - loss: 0.3692 - auroc: 0.769 - ETA: 6:19 - loss: 0.3685 - auroc: 0.769 -
ETA: 6:18 - loss: 0.3691 - auroc: 0.769 - ETA: 6:18 - loss: 0.3699 - auroc: 0.768 - ETA: 6:17 - lo
ss: 0.3700 - auroc: 0.769 - ETA: 6:17 - loss: 0.3704 - auroc: 0.770 - ETA: 6:16 - loss: 0.3692 - a
uroc: 0.771 - ETA: 6:16 - loss: 0.3695 - auroc: 0.772 - ETA: 6:15 - loss: 0.3697 - auroc: 0.772 -
ETA: 6:15 - loss: 0.3691 - auroc: 0.773 - ETA: 6:15 - loss: 0.3711 - auroc: 0.771 - ETA: 6:14 - lo
ss: 0.3711 - auroc: 0.772 - ETA: 6:14 - loss: 0.3724 - auroc: 0.770 - ETA: 6:14 - loss: 0.3710 - a
uroc: 0.771 - ETA: 6:13 - loss: 0.3706 - auroc: 0.769 - ETA: 6:13 - loss: 0.3715 - auroc: 0.769 -
ETA: 6:12 - loss: 0.3715 - auroc: 0.769 - ETA: 6:12 - loss: 0.3721 - auroc: 0.768 - ETA: 6:11 - lo
ss: 0.3716 - auroc: 0.767 - ETA: 6:11 - loss: 0.3710 - auroc: 0.768 - ETA: 6:11 - loss: 0.3709 - a
uroc: 0.766 - ETA: 6:10 - loss: 0.3707 - auroc: 0.768 - ETA: 6:10 - loss: 0.3699 - auroc: 0.769 -
ETA: 6:09 - loss: 0.3698 - auroc: 0.770 - ETA: 6:09 - loss: 0.3691 - auroc: 0.772 - ETA: 6:08 - lo
ss: 0.3682 - auroc: 0.772 - ETA: 6:08 - loss: 0.3696 - auroc: 0.771 - ETA: 6:07 - loss: 0.3684 - a
uroc: 0.771 - ETA: 6:07 - loss: 0.3680 - auroc: 0.772 - ETA: 6:06 - loss: 0.3678 - auroc: 0.773 -
ETA: 6:06 - loss: 0.3670 - auroc: 0.773 - ETA: 6:06 - loss: 0.3665 - auroc: 0.773 - ETA: 6:05 - lo
ss: 0.3675 - auroc: 0.773 - ETA: 6:04 - loss: 0.3671 - auroc: 0.773 - ETA: 6:04 - loss: 0.3673 - a
uroc: 0.773 - ETA: 6:04 - loss: 0.3664 - auroc: 0.774 - ETA: 6:03 - loss: 0.3659 - auroc: 0.774 -
ETA: 6:03 - loss: 0.3660 - auroc: 0.773 - ETA: 6:03 - loss: 0.3668 - auroc: 0.773 - ETA: 6:02 - lo
ss: 0.3666 - auroc: 0.771 - ETA: 6:02 - loss: 0.3660 - auroc: 0.773 - ETA: 6:02 - loss: 0.3658 - a
uroc: 0.773 - ETA: 6:01 - loss: 0.3659 - auroc: 0.773 - ETA: 6:01 - loss: 0.3659 - auroc: 0.773 -
ETA: 6:00 - loss: 0.3661 - auroc: 0.773 - ETA: 6:00 - loss: 0.3666 - auroc: 0.773 - ETA: 6:00 - lo
ss: 0.3678 - auroc: 0.772 - ETA: 5:59 - loss: 0.3675 - auroc: 0.772 - ETA: 5:59 - loss: 0.3677 - a
uroc: 0.772 - ETA: 5:59 - loss: 0.3683 - auroc: 0.772 - ETA: 5:58 - loss: 0.3677 - auroc: 0.772 -
ETA: 5:58 - loss: 0.3670 - auroc: 0.772 - ETA: 5:57 - loss: 0.3668 - auroc: 0.773 - ETA: 5:57 - lo
ss: 0.3665 - auroc: 0.773 - ETA: 5:57 - loss: 0.3659 - auroc: 0.773 - ETA: 5:57 - loss: 0.3664 - a
uroc: 0.773 - ETA: 5:56 - loss: 0.3657 - auroc: 0.774 - ETA: 5:56 - loss: 0.3653 - auroc: 0.773 -
ETA: 5:55 - loss: 0.3643 - auroc: 0.773 - ETA: 5:55 - loss: 0.3646 - auroc: 0.773 - ETA: 5:55 - lo
ss: 0.3647 - auroc: 0.773 - ETA: 5:54 - loss: 0.3652 - auroc: 0.773 - ETA: 5:54 - loss: 0.3656 - a
uroc: 0.773 - ETA: 5:54 - loss: 0.3663 - auroc: 0.772 - ETA: 5:53 - loss: 0.3658 - auroc: 0.772 -
ETA: 5:53 - loss: 0.3651 - auroc: 0.773 - ETA: 5:53 - loss: 0.3644 - auroc: 0.773 - ETA: 5:52 - lo
ss: 0.3644 - auroc: 0.773 - ETA: 5:52 - loss: 0.3643 - auroc: 0.773 - ETA: 5:52 - loss: 0.3644 - a
uroc: 0.773 - ETA: 5:51 - loss: 0.3641 - auroc: 0.773 - ETA: 5:51 - loss: 0.3639 - auroc: 0.774 -
ETA: 5:51 - loss: 0.3640 - auroc: 0.774 - ETA: 5:50 - loss: 0.3642 - auroc: 0.775 - ETA: 5:50 - lo
ss: 0.3642 - auroc: 0.775 - ETA: 5:49 - loss: 0.3645 - auroc: 0.776 - ETA: 5:49 - loss: 0.3641 - a
uroc: 0.776 - ETA: 5:49 - loss: 0.3649 - auroc: 0.775 - ETA: 5:48 - loss: 0.3651 - auroc: 0.773 -
ETA: 5:48 - loss: 0.3655 - auroc: 0.773 - ETA: 5:47 - loss: 0.3649 - auroc: 0.773 - ETA: 5:47 - lo
ss: 0.3653 - auroc: 0.772 - ETA: 5:47 - loss: 0.3658 - auroc: 0.772 - ETA: 5:46 - loss: 0.3662 - a
uroc: 0.772 - ETA: 5:46 - loss: 0.3666 - auroc: 0.771 - ETA: 5:46 - loss: 0.3663 - auroc: 0.771 -
ETA: 5:45 - loss: 0.3665 - auroc: 0.771 - ETA: 5:45 - loss: 0.3666 - auroc: 0.771 - ETA: 5:45 - lo
ss: 0.3658 - auroc: 0.772 - ETA: 5:44 - loss: 0.3659 - auroc: 0.772 - ETA: 5:44 - loss: 0.3662 - a
uroc: 0.772 - ETA: 5:44 - loss: 0.3661 - auroc: 0.772 - ETA: 5:43 - loss: 0.3664 - auroc: 0.772 -
ETA: 5:43 - loss: 0.3667 - auroc: 0.773 - ETA: 5:43 - loss: 0.3666 - auroc: 0.773 - ETA: 5:43 - lo

[illegible]

[illegible]

[illegible]

[illegible]

- auROC: 0.77 - ETA: 41s - loss: 0.3681 - auROC: 0.77 - ETA: 40s - loss: 0.3680 - auROC: 0.77 - ET
A: 40s - loss: 0.3679 - auROC: 0.77 - ETA: 40s - loss: 0.3679 - auROC: 0.77 - ETA: 39s - loss: 0.3
679 - auROC: 0.77 - ETA: 39s - loss: 0.3679 - auROC: 0.77 - ETA: 39s - loss: 0.3678 - auROC: 0.77
- ETA: 38s - loss: 0.3677 - auROC: 0.77 - ETA: 38s - loss: 0.3678 - auROC: 0.77 - ETA: 38s - loss:
0.3678 - auROC: 0.77 - ETA: 37s - loss: 0.3678 - auROC: 0.77 - ETA: 37s - loss: 0.3679 - auROC: 0.
77 - ETA: 37s - loss: 0.3680 - auROC: 0.77 - ETA: 36s - loss: 0.3681 - auROC: 0.77 - ETA: 36s - lo
ss: 0.3680 - auROC: 0.77 - ETA: 36s - loss: 0.3680 - auROC: 0.77 - ETA: 35s - loss: 0.3681 - auROC
: 0.77 - ETA: 35s - loss: 0.3681 - auROC: 0.77 - ETA: 35s - loss: 0.3683 - auROC: 0.77 - ETA: 34s
- loss: 0.3682 - auROC: 0.77 - ETA: 34s - loss: 0.3683 - auROC: 0.77 - ETA: 34s - loss: 0.3682 - a
uROC: 0.77 - ETA: 33s - loss: 0.3682 - auROC: 0.77 - ETA: 33s - loss: 0.3682 - auROC: 0.77 - ETA:
33s - loss: 0.3683 - auROC: 0.77 - ETA: 32s - loss: 0.3683 - auROC: 0.77 - ETA: 32s - loss: 0.3682
- auROC: 0.77 - ETA: 32s - loss: 0.3682 - auROC: 0.77 - ETA: 31s - loss: 0.3683 - auROC: 0.77 - ET
A: 31s - loss: 0.3684 - auROC: 0.77 - ETA: 31s - loss: 0.3683 - auROC: 0.77 - ETA: 30s - loss: 0.3
683 - auROC: 0.77 - ETA: 30s - loss: 0.3683 - auROC: 0.77 - ETA: 30s - loss: 0.3682 - auROC: 0.77
- ETA: 29s - loss: 0.3682 - auROC: 0.77 - ETA: 29s - loss: 0.3683 - auROC: 0.77 - ETA: 29s - loss:
0.3683 - auROC: 0.77 - ETA: 28s - loss: 0.3686 - auROC: 0.77 - ETA: 28s - loss: 0.3685 - auROC: 0.
77 - ETA: 28s - loss: 0.3685 - auROC: 0.77 - ETA: 27s - loss: 0.3684 - auROC: 0.77 - ETA: 27s - lo
ss: 0.3684 - auROC: 0.77 - ETA: 27s - loss: 0.3684 - auROC: 0.77 - ETA: 26s - loss: 0.3685 - auROC
: 0.77 - ETA: 26s - loss: 0.3683 - auROC: 0.77 - ETA: 26s - loss: 0.3683 - auROC: 0.77 - ETA: 25s
- loss: 0.3684 - auROC: 0.77 - ETA: 25s - loss: 0.3683 - auROC: 0.77 - ETA: 25s - loss: 0.3683 - a
uROC: 0.77 - ETA: 24s - loss: 0.3682 - auROC: 0.77 - ETA: 24s - loss: 0.3682 - auROC: 0.77 - ETA:
24s - loss: 0.3683 - auROC: 0.77 - ETA: 23s - loss: 0.3683 - auROC: 0.77 - ETA: 23s - loss: 0.3682
- auROC: 0.77 - ETA: 23s - loss: 0.3682 - auROC: 0.77 - ETA: 22s - loss: 0.3682 - auROC: 0.77 - ET
A: 22s - loss: 0.3681 - auROC: 0.77 - ETA: 22s - loss: 0.3681 - auROC: 0.77 - ETA: 21s - loss: 0.3
680 - auROC: 0.77 - ETA: 21s - loss: 0.3681 - auROC: 0.77 - ETA: 21s - loss: 0.3681 - auROC: 0.77
- ETA: 20s - loss: 0.3682 - auROC: 0.77 - ETA: 20s - loss: 0.3682 - auROC: 0.77 - ETA: 20s - loss:
0.3681 - auROC: 0.77 - ETA: 19s - loss: 0.3682 - auROC: 0.77 - ETA: 19s - loss: 0.3682 - auROC: 0.
77 - ETA: 19s - loss: 0.3682 - auROC: 0.77 - ETA: 18s - loss: 0.3682 - auROC: 0.77 - ETA: 18s - lo
ss: 0.3682 - auROC: 0.77 - ETA: 18s - loss: 0.3682 - auROC: 0.77 - ETA: 17s - loss: 0.3681 - auROC
: 0.77 - ETA: 17s - loss: 0.3681 - auROC: 0.77 - ETA: 17s - loss: 0.3681 - auROC: 0.77 - ETA: 16s
- loss: 0.3681 - auROC: 0.77 - ETA: 16s - loss: 0.3681 - auROC: 0.77 - ETA: 16s - loss: 0.3680 - a
uROC: 0.77 - ETA: 15s - loss: 0.3680 - auROC: 0.77 - ETA: 15s - loss: 0.3680 - auROC: 0.77 - ETA:
15s - loss: 0.3681 - auROC: 0.77 - ETA: 14s - loss: 0.3681 - auROC: 0.77 - ETA: 14s - loss: 0.3681
- auROC: 0.77 - ETA: 14s - loss: 0.3680 - auROC: 0.77 - ETA: 13s - loss: 0.3680 - auROC: 0.77 - ET
A: 13s - loss: 0.3680 - auROC: 0.76 - ETA: 13s - loss: 0.3680 - auROC: 0.76 - ETA: 12s - loss: 0.3
680 - auROC: 0.76 - ETA: 12s - loss: 0.3681 - auROC: 0.76 - ETA: 12s - loss: 0.3680 - auROC: 0.76
- ETA: 11s - loss: 0.3680 - auROC: 0.76 - ETA: 11s - loss: 0.3681 - auROC: 0.76 - ETA: 11s - loss:
0.3681 - auROC: 0.76 - ETA: 10s - loss: 0.3680 - auROC: 0.76 - ETA: 10s - loss: 0.3680 - auROC: 0.
76 - ETA: 10s - loss: 0.3681 - auROC: 0.76 - ETA: 9s - loss: 0.3680 - auROC: 0.7697 - ETA: 9s - lo
ss: 0.3679 - auROC: 0.769 - ETA: 9s - loss: 0.3678 - auROC: 0.769 - ETA: 8s - loss: 0.3677 - auROC
: 0.769 - ETA: 8s - loss: 0.3678 - auROC: 0.769 - ETA: 8s - loss: 0.3678 - auROC: 0.769 - ETA: 7s
- loss: 0.3677 - auROC: 0.769 - ETA: 7s - loss: 0.3678 - auROC: 0.769876473/76473
[=====] - ETA: 7s - loss: 0.3679 - auROC: 0.769 - ETA: 6s - loss: 0.3678
- auROC: 0.769 - ETA: 6s - loss: 0.3677 - auROC: 0.770 - ETA: 6s - loss: 0.3678 - auROC: 0.770 - E
TA: 5s - loss: 0.3678 - auROC: 0.769 - ETA: 5s - loss: 0.3678 - auROC: 0.769 - ETA: 5s - loss: 0.3
678 - auROC: 0.769 - ETA: 4s - loss: 0.3678 - auROC: 0.769 - ETA: 4s - loss: 0.3679 - auROC: 0.769
- ETA: 4s - loss: 0.3680 - auROC: 0.769 - ETA: 3s - loss: 0.3681 - auROC: 0.769 - ETA: 3s - loss:
0.3680 - auROC: 0.769 - ETA: 3s - loss: 0.3679 - auROC: 0.769 - ETA: 2s - loss: 0.3679 - auROC: 0.
769 - ETA: 2s - loss: 0.3680 - auROC: 0.769 - ETA: 2s - loss: 0.3680 - auROC: 0.769 - ETA: 1s - lo
ss: 0.3679 - auROC: 0.769 - ETA: 1s - loss: 0.3679 - auROC: 0.769 - ETA: 1s - loss: 0.3679 - auROC
: 0.769 - ETA: 0s - loss: 0.3679 - auROC: 0.769 - ETA: 0s - loss: 0.3680 - auROC: 0.769 - ETA: 0s
- loss: 0.3679 - auROC: 0.770 - 453s 6ms/step - loss: 0.3678 - auROC: 0.7700 - val_loss: 0.3756 -
val_auROC: 0.7596

Epoch 00005: val_auROC did not improve from 0.76327

Epoch 6/20

12416/76473 [==>.....] - ETA: 5:58 - loss: 0.4470 - auROC: 0.817 - ETA: 6:16
- loss: 0.4194 - auROC: 0.762 - ETA: 6:16 - loss: 0.4481 - auROC: 0.715 - ETA: 6:21 - loss: 0.3882
- auROC: 0.768 - ETA: 6:21 - loss: 0.3509 - auROC: 0.795 - ETA: 6:19 - loss: 0.3256 - auROC: 0.796
- ETA: 6:21 - loss: 0.3523 - auROC: 0.779 - ETA: 6:20 - loss: 0.3520 - auROC: 0.789 - ETA: 6:19 -
loss: 0.3544 - auROC: 0.791 - ETA: 6:17 - loss: 0.3516 - auROC: 0.793 - ETA: 6:19 - loss: 0.3523 -
auROC: 0.804 - ETA: 6:21 - loss: 0.3527 - auROC: 0.799 - ETA: 6:20 - loss: 0.3445 - auROC: 0.802 -
ETA: 6:20 - loss: 0.3485 - auROC: 0.806 - ETA: 6:20 - loss: 0.3584 - auROC: 0.804 - ETA: 6:20 - lo
ss: 0.3609 - auROC: 0.803 - ETA: 6:19 - loss: 0.3627 - auROC: 0.798 - ETA: 6:19 - loss: 0.3606 - a
uROC: 0.791 - ETA: 6:18 - loss: 0.3545 - auROC: 0.798 - ETA: 6:18 - loss: 0.3464 - auROC: 0.800 -
ETA: 6:19 - loss: 0.3449 - auROC: 0.797 - ETA: 6:19 - loss: 0.3473 - auROC: 0.795 - ETA: 6:19 - lo
ss: 0.3518 - auROC: 0.789 - ETA: 6:18 - loss: 0.3513 - auROC: 0.792 - ETA: 6:18 - loss: 0.3546 - a
uROC: 0.792 - ETA: 6:18 - loss: 0.3562 - auROC: 0.793 - ETA: 6:18 - loss: 0.3520 - auROC: 0.798 -
ETA: 6:18 - loss: 0.3546 - auROC: 0.798 - ETA: 6:18 - loss: 0.3515 - auROC: 0.798 - ETA: 6:18 - lo
ss: 0.3545 - auROC: 0.797 - ETA: 6:17 - loss: 0.3577 - auROC: 0.789 - ETA: 6:17 - loss: 0.3573 - a
uROC: 0.788 - ETA: 6:17 - loss: 0.3535 - auROC: 0.793 - ETA: 6:17 - loss: 0.3550 - auROC: 0.788 -
ETA: 6:17 - loss: 0.3567 - auROC: 0.785 - ETA: 6:18 - loss: 0.3540 - auROC: 0.787 - ETA: 6:18 - lo
ss: 0.3550 - auROC: 0.785 - ETA: 6:17 - loss: 0.3566 - auROC: 0.785 - ETA: 6:18 - loss: 0.3574 - a
uROC: 0.783 - ETA: 6:18 - loss: 0.3577 - auROC: 0.782 - ETA: 6:17 - loss: 0.3555 - auROC: 0.781 -
ETA: 6:17 - loss: 0.3575 - auROC: 0.778 - ETA: 6:17 - loss: 0.3566 - auROC: 0.781 - ETA: 6:17 - lo
ss: 0.3574 - auROC: 0.777 - ETA: 6:17 - loss: 0.3601 - auROC: 0.775 - ETA: 6:17 - loss: 0.3600 - a
uROC: 0.771 - ETA: 6:16 - loss: 0.3615 - auROC: 0.769 - ETA: 6:16 - loss: 0.3595 - auROC: 0.771 -

```
ETA: 6:16 - loss: 0.3611 - auroc: 0.770 - ETA: 6:15 - loss: 0.3613 - auroc: 0.770 - ETA: 6:15 - lo
ss: 0.3633 - auroc: 0.769 - ETA: 6:14 - loss: 0.3617 - auroc: 0.769 - ETA: 6:14 - loss: 0.3623 - a
uroc: 0.769 - ETA: 6:14 - loss: 0.3630 - auroc: 0.768 - ETA: 6:14 - loss: 0.3615 - auroc: 0.762 -
ETA: 6:13 - loss: 0.3614 - auroc: 0.762 - ETA: 6:13 - loss: 0.3618 - auroc: 0.763 - ETA: 6:13 - lo
ss: 0.3603 - auroc: 0.763 - ETA: 6:13 - loss: 0.3583 - auroc: 0.764 - ETA: 6:12 - loss: 0.3577 - a
uroc: 0.766 - ETA: 6:12 - loss: 0.3596 - auroc: 0.768 - ETA: 6:12 - loss: 0.3589 - auroc: 0.765 -
ETA: 6:12 - loss: 0.3580 - auroc: 0.766 - ETA: 6:12 - loss: 0.3581 - auroc: 0.765 - ETA: 6:11 - lo
ss: 0.3601 - auroc: 0.764 - ETA: 6:11 - loss: 0.3584 - auroc: 0.763 - ETA: 6:11 - loss: 0.3579 - a
uroc: 0.765 - ETA: 6:10 - loss: 0.3590 - auroc: 0.765 - ETA: 6:10 - loss: 0.3596 - auroc: 0.766 -
ETA: 6:09 - loss: 0.3586 - auroc: 0.767 - ETA: 6:09 - loss: 0.3575 - auroc: 0.768 - ETA: 6:09 - lo
ss: 0.3571 - auroc: 0.765 - ETA: 6:09 - loss: 0.3564 - auroc: 0.764 - ETA: 6:08 - loss: 0.3565 - a
uroc: 0.764 - ETA: 6:08 - loss: 0.3568 - auroc: 0.763 - ETA: 6:08 - loss: 0.3569 - auroc: 0.764 -
ETA: 6:07 - loss: 0.3571 - auroc: 0.766 - ETA: 6:07 - loss: 0.3579 - auroc: 0.765 - ETA: 6:06 - lo
ss: 0.3588 - auroc: 0.765 - ETA: 6:06 - loss: 0.3589 - auroc: 0.767 - ETA: 6:06 - loss: 0.3576 - a
uroc: 0.769 - ETA: 6:05 - loss: 0.3577 - auroc: 0.769 - ETA: 6:05 - loss: 0.3581 - auroc: 0.769 -
ETA: 6:05 - loss: 0.3575 - auroc: 0.769 - ETA: 6:04 - loss: 0.3575 - auroc: 0.770 - ETA: 6:04 - lo
ss: 0.3575 - auroc: 0.770 - ETA: 6:04 - loss: 0.3584 - auroc: 0.768 - ETA: 6:03 - loss: 0.3585 - a
uroc: 0.766 - ETA: 6:03 - loss: 0.3586 - auroc: 0.767 - ETA: 6:03 - loss: 0.3584 - auroc: 0.766 -
ETA: 6:03 - loss: 0.3580 - auroc: 0.766 - ETA: 6:02 - loss: 0.3583 - auroc: 0.765 - ETA: 6:02 - lo
ss: 0.3570 - auroc: 0.767 - ETA: 6:01 - loss: 0.3559 - auroc: 0.768 - ETA: 6:01 - loss: 0.3567 - a
uroc: 0.767 - ETA: 6:01 - loss: 0.3579 - auroc: 0.767 - ETA: 6:00 - loss: 0.3576 - auroc: 0.767 -
ETA: 6:00 - loss: 0.3590 - auroc: 0.766 - ETA: 5:59 - loss: 0.3580 - auroc: 0.767 - ETA: 5:59 - lo
ss: 0.3583 - auroc: 0.766 - ETA: 5:58 - loss: 0.3581 - auroc: 0.765 - ETA: 5:58 - loss: 0.3571 - a
uroc: 0.764 - ETA: 5:58 - loss: 0.3572 - auroc: 0.764 - ETA: 5:57 - loss: 0.3573 - auroc: 0.764 -
ETA: 5:57 - loss: 0.3577 - auroc: 0.764 - ETA: 5:57 - loss: 0.3578 - auroc: 0.764 - ETA: 5:56 - lo
ss: 0.3586 - auroc: 0.764 - ETA: 5:56 - loss: 0.3590 - auroc: 0.764 - ETA: 5:56 - loss: 0.3591 - a
uroc: 0.765 - ETA: 5:55 - loss: 0.3579 - auroc: 0.764 - ETA: 5:55 - loss: 0.3583 - auroc: 0.764 -
ETA: 5:55 - loss: 0.3595 - auroc: 0.763 - ETA: 5:55 - loss: 0.3601 - auroc: 0.762 - ETA: 5:54 - lo
ss: 0.3600 - auroc: 0.763 - ETA: 5:54 - loss: 0.3606 - auroc: 0.763 - ETA: 5:54 - loss: 0.3614 - a
uroc: 0.763 - ETA: 5:53 - loss: 0.3612 - auroc: 0.763 - ETA: 5:53 - loss: 0.3615 - auroc: 0.764 -
ETA: 5:53 - loss: 0.3621 - auroc: 0.764 - ETA: 5:52 - loss: 0.3619 - auroc: 0.763 - ETA: 5:52 - lo
ss: 0.3611 - auroc: 0.764 - ETA: 5:52 - loss: 0.3608 - auroc: 0.766 - ETA: 5:51 - loss: 0.3616 - a
uroc: 0.766 - ETA: 5:51 - loss: 0.3622 - auroc: 0.766 - ETA: 5:50 - loss: 0.3621 - auroc: 0.766 -
ETA: 5:50 - loss: 0.3620 - auroc: 0.766 - ETA: 5:50 - loss: 0.3611 - auroc: 0.767 - ETA: 5:49 - lo
ss: 0.3604 - auroc: 0.769 - ETA: 5:49 - loss: 0.3597 - auroc: 0.769 - ETA: 5:49 - loss: 0.3602 - a
uroc: 0.769 - ETA: 5:48 - loss: 0.3605 - auroc: 0.768 - ETA: 5:48 - loss: 0.3609 - auroc: 0.769 -
ETA: 5:48 - loss: 0.3601 - auroc: 0.770 - ETA: 5:47 - loss: 0.3609 - auroc: 0.770 - ETA: 5:47 - lo
ss: 0.3605 - auroc: 0.770 - ETA: 5:47 - loss: 0.3604 - auroc: 0.770 - ETA: 5:47 - loss: 0.3602 - a
uroc: 0.770 - ETA: 5:46 - loss: 0.3595 - auroc: 0.771 - ETA: 5:46 - loss: 0.3599 - auroc: 0.770 -
ETA: 5:46 - loss: 0.3605 - auroc: 0.768 - ETA: 5:45 - loss: 0.3606 - auroc: 0.767 - ETA: 5:45 - lo
ss: 0.3601 - auroc: 0.768 - ETA: 5:45 - loss: 0.3607 - auroc: 0.768 - ETA: 5:44 - loss: 0.3606 - a
uroc: 0.768 - ETA: 5:44 - loss: 0.3604 - auroc: 0.768 - ETA: 5:44 - loss: 0.3599 - auroc: 0.767 -
ETA: 5:43 - loss: 0.3596 - auroc: 0.766 - ETA: 5:43 - loss: 0.3596 - auroc: 0.767 - ETA: 5:43 - lo
ss: 0.3590 - auroc: 0.768 - ETA: 5:42 - loss: 0.3595 - auroc: 0.768 - ETA: 5:42 - loss: 0.3601 - a
uroc: 0.768 - ETA: 5:42 - loss: 0.3605 - auroc: 0.768 - ETA: 5:41 - loss: 0.3604 - auroc: 0.768 -
ETA: 5:41 - loss: 0.3604 - auroc: 0.768 - ETA: 5:41 - loss: 0.3605 - auroc: 0.769 - ETA: 5:41 - lo
ss: 0.3606 - auroc: 0.769 - ETA: 5:40 - loss: 0.3604 - auroc: 0.770 - ETA: 5:40 - loss: 0.3614 - a
uroc: 0.769 - ETA: 5:39 - loss: 0.3620 - auroc: 0.769 - ETA: 5:39 - loss: 0.3620 - auroc: 0.770 -
ETA: 5:39 - loss: 0.3623 - auroc: 0.770 - ETA: 5:39 - loss: 0.3620 - auroc: 0.770 - ETA: 5:38 - lo
ss: 0.3621 - auroc: 0.769 - ETA: 5:38 - loss: 0.3617 - auroc: 0.769 - ETA: 5:38 - loss: 0.3620 - a
uroc: 0.769 - ETA: 5:37 - loss: 0.3622 - auroc: 0.770 - ETA: 5:37 - loss: 0.3621 - auroc: 0.770 -
ETA: 5:37 - loss: 0.3623 - auroc: 0.770 - ETA: 5:36 - loss: 0.3619 - auroc: 0.770 - ETA: 5:36 - lo
ss: 0.3613 - auroc: 0.770 - ETA: 5:36 - loss: 0.3611 - auroc: 0.770 - ETA: 5:35 - loss: 0.3610 - a
uroc: 0.770 - ETA: 5:35 - loss: 0.3614 - auroc: 0.771 - ETA: 5:35 - loss: 0.3612 - auroc: 0.771 -
ETA: 5:35 - loss: 0.3608 - auroc: 0.772 - ETA: 5:34 - loss: 0.3606 - auroc: 0.772 - ETA: 5:34 - lo
ss: 0.3604 - auroc: 0.772 - ETA: 5:33 - loss: 0.3606 - auroc: 0.772 - ETA: 5:33 - loss: 0.3602 - a
uroc: 0.773 - ETA: 5:33 - loss: 0.3592 - auroc: 0.773 - ETA: 5:32 - loss: 0.3614 - auroc: 0.772 -
ETA: 5:32 - loss: 0.3611 - auroc: 0.772 - ETA: 5:32 - loss: 0.3600 - auroc: 0.773 - ETA: 5:31 - lo
ss: 0.3608 - auroc: 0.773 - ETA: 5:31 - loss: 0.3609 - auroc: 0.772 - ETA: 5:31 - loss: 0.3608 - a
uroc: 0.773 - ETA: 5:30 - loss: 0.
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

auroc: 0.77 - ETA: 22s - loss: 0.3676 - auroc: 0.77 - ETA: 21s - loss: 0.3677 - auroc: 0.77 - ETA: 21s - loss: 0.3676
- auroc: 0.77 - ETA: 21s - loss: 0.3678 - auroc: 0.77 - ETA: 20s - loss: 0.3678 - auroc: 0.77 - ET
A: 20s - loss: 0.3677 - auroc: 0.77 - ETA: 20s - loss: 0.3677 - auroc: 0.77 - ETA: 19s - loss: 0.3
677 - auroc: 0.77 - ETA: 19s - loss: 0.3678 - auroc: 0.77 - ETA: 19s - loss: 0.3678 - auroc: 0.77
- ETA: 18s - loss: 0.3678 - auroc: 0.77 - ETA: 18s - loss: 0.3677 - auroc: 0.77 - ETA: 18s - loss:
0.3676 - auroc: 0.77 - ETA: 17s - loss: 0.3675 - auroc: 0.77 - ETA: 17s - loss: 0.3674 - auroc: 0.
77 - ETA: 17s - loss: 0.3674 - auroc: 0.77 - ETA: 16s - loss: 0.3674 - auroc: 0.77 - ETA: 16s - lo
ss: 0.3674 - auroc: 0.77 - ETA: 16s - loss: 0.3674 - auroc: 0.77 - ETA: 16s - loss: 0.3673 - auroc
: 0.77 - ETA: 15s - loss: 0.3674 - auroc: 0.77 - ETA: 15s - loss: 0.3674 - auroc: 0.77 - ETA: 15s
- loss: 0.3674 - auroc: 0.77 - ETA: 14s - loss: 0.3674 - auroc: 0.77 - ETA: 14s - loss: 0.3674 - a
uroc: 0.77 - ETA: 14s - loss: 0.3673 - auroc: 0.77 - ETA: 13s - loss: 0.3673 - auroc: 0.77 - ETA:
13s - loss: 0.3673 - auroc: 0.77 - ETA: 13s - loss: 0.3674 - auroc: 0.77 - ETA: 12s - loss: 0.3673
- auroc: 0.77 - ETA: 12s - loss: 0.3673 - auroc: 0.77 - ETA: 12s - loss: 0.3673 - auroc: 0.77 - ET
A: 11s - loss: 0.3673 - auroc: 0.77 - ETA: 11s - loss: 0.3673 - auroc: 0.77 - ETA: 11s - loss: 0.3
673 - auroc: 0.77 - ETA: 10s - loss: 0.3672 - auroc: 0.77 - ETA: 10s - loss: 0.3672 - auroc: 0.77
- ETA: 10s - loss: 0.3673 - auroc: 0.77 - ETA: 9s - loss: 0.3673 - auroc: 0.7704 - ETA: 9s - loss:
0.3673 - auroc: 0.770 - ETA: 9s - loss: 0.3672 - auroc: 0.770 - ETA: 8s - loss: 0.3673 - auroc: 0.
770 - ETA: 8s - loss: 0.3673 - auroc: 0.770 - ETA: 8s - loss: 0.3673 - auroc: 0.770 - ETA: 7s - lo
ss: 0.3674 - auroc: 0.770 - ETA: 7s - loss: 0.3674 - auroc: 0.770476473/76473
[=====] - ETA: 7s - loss: 0.3675 - auroc: 0.770 - ETA: 6s - loss: 0.3675
- auroc: 0.770 - ETA: 6s - loss: 0.3675 - auroc: 0.770 - ETA: 6s - loss: 0.3675 - auroc: 0.770 - E
TA: 5s - loss: 0.3674 - auroc: 0.770 - ETA: 5s - loss: 0.3675 - auroc: 0.770 - ETA: 5s - loss: 0.3
674 - auroc: 0.770 - ETA: 4s - loss: 0.3674 - auroc: 0.770 - ETA: 4s - loss: 0.3674 - auroc: 0.770
- ETA: 4s - loss: 0.3675 - auroc: 0.770 - ETA: 3s - loss: 0.3675 - auroc: 0.770 - ETA: 3s - loss:
0.3675 - auroc: 0.770 - ETA: 3s - loss: 0.3676 - auroc: 0.770 - ETA: 2s - loss: 0.3676 - auroc: 0.
770 - ETA: 2s - loss: 0.3676 - auroc: 0.770 - ETA: 2s - loss: 0.3676 - auroc: 0.770 - ETA: 1s - lo
ss: 0.3676 - auroc: 0.770 - ETA: 1s - loss: 0.3677 - auroc: 0.770 - ETA: 1s - loss: 0.3677 - auroc
: 0.770 - ETA: 0s - loss: 0.3677 - auroc: 0.770 - ETA: 0s - loss: 0.3678 - auroc: 0.770 - ETA: 0s
- loss: 0.3677 - auroc: 0.770 - 446s 6ms/step - loss: 0.3676 - auroc: 0.7705 - val_loss: 0.3738 -
val_auroc: 0.7605

```

Epoch 00006: val_auroc did not improve from 0.76327
Restoring model weights from the end of the best epoch

Epoch 00006: ReduceLROnPlateau reducing learning rate to 0.00020000000949949026.
Epoch 00006: early stopping

AUC Score

In [7]:

```

history = model_3.predict(train_data_3)

print("AUC score is {}".format(roc_auc_score(Y_test,history)))

```

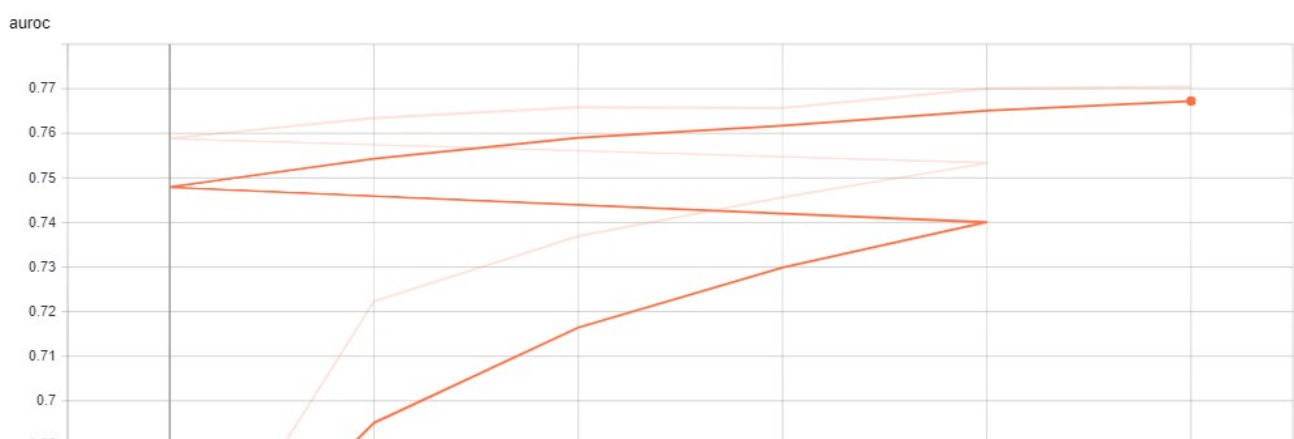
AUC score is 0.7632732608913567

Tensorboard images

In [8]:

```
Image(filename='Model_3_1.jpg') #auroc
```

Out[8]:

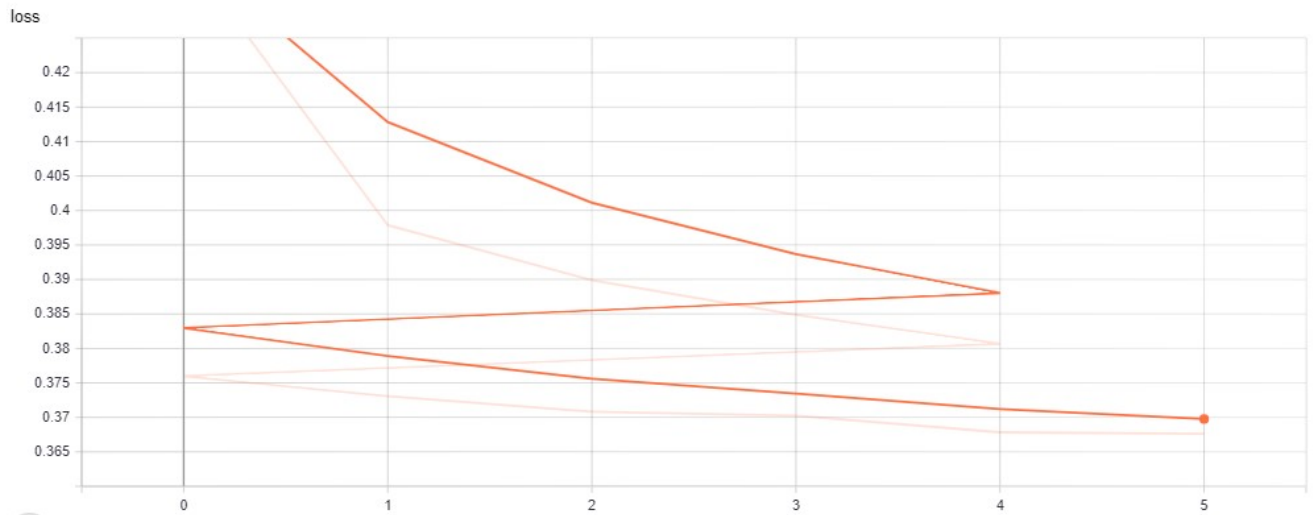




In [9]:

```
Image(filename='Model_3_2.jpg') #loss
```

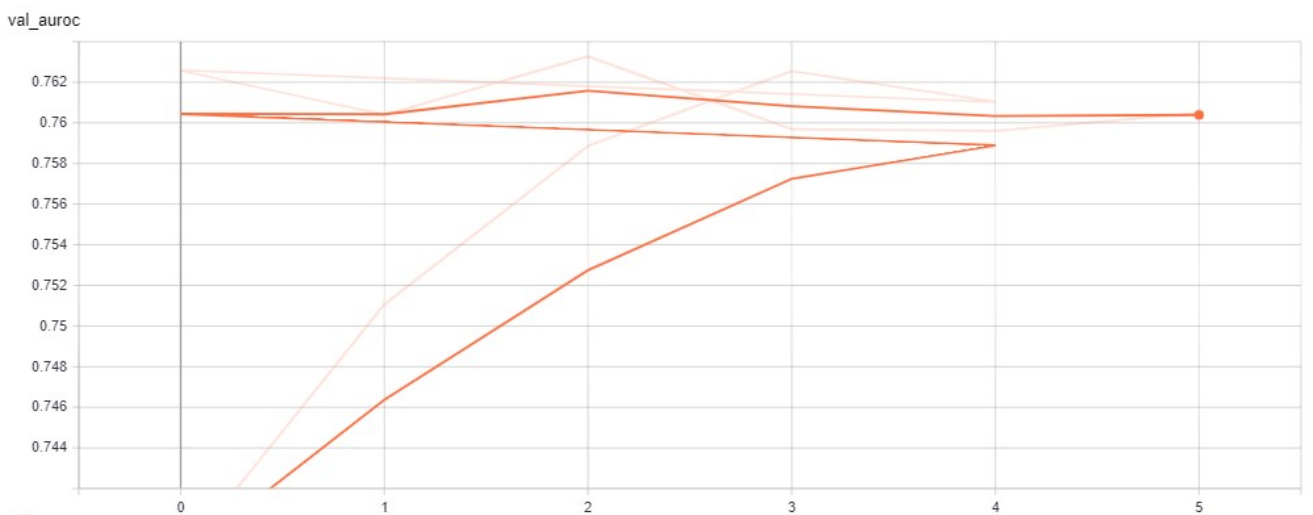
Out[9]:



In [10]:

```
Image(filename='Model_3_3.jpg') #val_auroc
```

Out[10]:

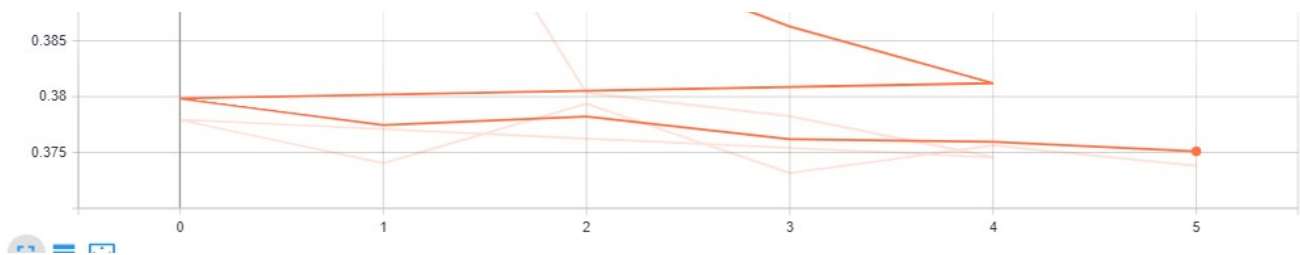


In [12]:

```
Image(filename='Model_3_4.jpg') #val_loss
```

Out[12]:





Observation

Trained models with three architectures

Model 3 gives better performance than the other two models and its AUC is 0.763

Model 1 took more time to train

Tried various models for best results

Displayed the results with Pretty Table

In [83]:

```
http://zetcode.com/python/prettytable/
from prettytable import PrettyTable

x_pretty_table = PrettyTable()
x_pretty_table.field_names = ["Model", "Total params", "Trainable params", "Non-trainable
params", "AUC Score"]

x_pretty_table.add_row(["Model1", "1,551,551", "51,543", "1,500,008", "0.75"])
x_pretty_table.add_row(["Model2", "8,416,423", "1,098,759", "7,317,664", "0.754"])
x_pretty_table.add_row(["Model3", "1,777,974", "277,974", "1,500,000", "0.763"])

print(x_pretty_table)
```

Model	Total params	Trainable params	Non-trainable params	AUC Score
Model1	1,551,551	51,543	1,500,008	0.75
Model2	8,416,423	1,098,759	7,317,664	0.754
Model3	1,777,974	277,974	1,500,000	0.763