### 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
\textbf{from keras.layers import} \ \texttt{BatchNormalization,Dense,Dropout,Input,Embedding,LSTM,Flatten} \ \ \textbf{,}
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_appro
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\_train: 764/3
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")
```

```
grove words = pickie.load(pickie 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=Tr
ue)(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=Tru
e)(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=Tru
e)(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]:
```

### 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_ 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_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]:

### In [39]:

### In [41]:

```
checkpoint_1 = ModelCheckpoint("model_1.h5", monitor='val_loss', verbose=1, save_best_only=True, sa
ve_weights_only=False, mode='auto', period=1)
earlystop_1 = EarlyStopping(monitor='val_loss', min_delta=0, patience=0, verbose=1, mode='auto', ba
seline=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, w
rite_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 aucl(y_true, y_pred):
    if len(np.unique(y_true[:,1])) == 1:
        return 0.5
else.
```

```
return roc_auc_score(y_true, y_pred)

def auroc(y_true, y_pred):
    return tf.py_func(aucl, (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]:

```
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 - 10ss: U.6441 - auroc: U.49 - ETA: 23:13 - 10ss: U.6435 - auroc: U.49 - ETA: 23:11 - 10ss:
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:
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: 11:54 - loss: 0.5044 - auroc: 0.49 - ETA: 11:53 - loss: 0.5041 - auroc: 0.49 - ETA: 11:51 - loss
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```

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uroc: 0.501 - ETA: 7:24 - loss: 0.4846 - auroc: 0.501 - ETA: 7:23 - loss: 0.4845 - auroc: 0.502 -
ETA: 7:22 - loss: 0.4845 - auroc: 0.501 - ETA: 7:20 - loss: 0.4845 - auroc: 0.501 - ETA: 7:19 - lo
```

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ETA: 7:04 - loss: 0.4836 - auroc: 0.501 - ETA: 7:03 - loss: 0.4835 - auroc: 0.501 - ETA: 7:02 - lo
ss: 0.4833 - auroc: 0.501 - ETA: 7:00 - loss: 0.4832 - auroc: 0.501 - ETA: 6:59 - loss: 0.4831 - a
uroc: 0.501 - ETA: 6:58 - loss: 0.4831 - auroc: 0.501 - ETA: 6:57 - loss: 0.4830 - auroc: 0.501 -
ETA: 6:55 - loss: 0.4830 - auroc: 0.501 - ETA: 6:54 - loss: 0.4831 - auroc: 0.501 - ETA: 6:53 - lo
ss: 0.4830 - auroc: 0.501 - ETA: 6:51 - loss: 0.4829 - auroc: 0.501 - ETA: 6:50 - loss: 0.4828 - a
uroc: 0.501 - ETA: 6:49 - loss: 0.4827 - auroc: 0.501 - ETA: 6:48 - loss: 0.4828 - auroc: 0.501 -
ETA: 6:46 - loss: 0.4828 - auroc: 0.501 - ETA: 6:45 - loss: 0.4827 - auroc: 0.501 - ETA: 6:44 - lo
ss: 0.4825 - auroc: 0.501 - ETA: 6:43 - loss: 0.4825 - auroc: 0.501 - ETA: 6:41 - loss: 0.4824 - a
uroc: 0.501 - ETA: 6:40 - loss: 0.4823 - auroc: 0.501 - ETA: 6:39 - loss: 0.4823 - auroc: 0.501 -
ETA: 6:38 - loss: 0.4822 - auroc: 0.501 - ETA: 6:36 - loss: 0.4822 - auroc: 0.501 - ETA: 6:35 - lo
ss: 0.4821 - auroc: 0.502 - ETA: 6:34 - loss: 0.4820 - auroc: 0.502 - ETA: 6:33 - loss: 0.4819 - a
uroc: 0.502 - ETA: 6:31 - loss: 0.4818 - auroc: 0.501 - ETA: 6:30 - loss: 0.4817 - auroc: 0.501 -
ETA: 6:29 - loss: 0.4817 - auroc: 0.501 - ETA: 6:28 - loss: 0.4816 - auroc: 0.501 - ETA: 6:26 - lo
ss: 0.4815 - auroc: 0.502 - ETA: 6:25 - loss: 0.4815 - auroc: 0.502 - ETA: 6:24 - loss: 0.4814 - a
uroc: 0.502 - ETA: 6:23 - loss: 0.4813 - auroc: 0.502 - ETA: 6:22 - loss: 0.4812 - auroc: 0.502 -
ETA: 6:20 - loss: 0.4810 - auroc: 0.502 - ETA: 6:19 - loss: 0.4808 - auroc: 0.502 - ETA: 6:18 - lo
ss: 0.4806 - auroc: 0.502 - ETA: 6:17 - loss: 0.4806 - auroc: 0.502 - ETA: 6:15 - loss: 0.4806 - a
uroc: 0.502 - ETA: 6:14 - loss: 0.4805 - auroc: 0.502 - ETA: 6:13 - loss: 0.4804 - auroc: 0.502 -
ETA: 6:11 - loss: 0.4803 - auroc: 0.502 - ETA: 6:10 - loss: 0.4803 - auroc: 0.502 - ETA: 6:09 - lo
ss: 0.4801 - auroc: 0.502 - ETA: 6:08 - loss: 0.4801 - auroc: 0.502 - ETA: 6:06 - loss: 0.4800 - a
uroc: 0.502 - ETA: 6:05 - loss: 0.4799 - auroc: 0.502 - ETA: 6:04 - loss: 0.4799 - auroc: 0.502 -
ETA: 6:03 - loss: 0.4797 - auroc: 0.502 - ETA: 6:02 - loss: 0.4796 - auroc: 0.502 - ETA: 6:00 - lo
ss: 0.4797 - auroc: 0.502 - ETA: 5:59 - loss: 0.4795 - auroc: 0.502 - ETA: 5:58 - loss: 0.4794 - a
uroc: 0.502 - ETA: 5:57 - loss: 0.4793 - auroc: 0.502 - ETA: 5:55 - loss: 0.4792 - auroc: 0.502 -
ETA: 5:54 - loss: 0.4791 - auroc: 0.502 - ETA: 5:53 - loss: 0.4789 - auroc: 0.502 - ETA: 5:52 - lo
ss: 0.4788 - auroc: 0.502 - ETA: 5:50 - loss: 0.4788 - auroc: 0.502 - ETA: 5:49 - loss: 0.4787 - a
uroc: 0.502 - ETA: 5:48 - loss: 0.4786 - auroc: 0.502 - ETA: 5:47 - loss: 0.4784 - auroc: 0.502 -
ETA: 5:45 - loss: 0.4784 - auroc: 0.502 - ETA: 5:44 - loss: 0.4783 - auroc: 0.502 - ETA: 5:43 - lo
ss: 0.4781 - auroc: 0.502 - ETA: 5:41 - loss: 0.4781 - auroc: 0.502 - ETA: 5:40 - loss: 0.4779 - a
uroc: 0.502 - ETA: 5:39 - loss: 0.4780 - auroc: 0.502 - ETA: 5:38 - loss: 0.4780 - auroc: 0.502 -
ETA: 5:36 - loss: 0.4780 - auroc: 0.502 - ETA: 5:35 - loss: 0.4779 - auroc: 0.502 - ETA: 5:34 - lo
ss: 0.4778 - auroc: 0.503 - ETA: 5:33 - loss: 0.4777 - auroc: 0.503 - ETA: 5:31 - loss: 0.4777 - a
uroc: 0.503 - ETA: 5:30 - loss: 0.4776 - auroc: 0.503 - ETA: 5:29 - loss: 0.4775 - auroc: 0.503 -
ETA: 5:28 - loss: 0.4774 - auroc: 0.503 - ETA: 5:26 - loss: 0.4772 - auroc: 0.503 - ETA: 5:25 - lo
ss: 0.4773 - auroc: 0.503 - ETA: 5:24 - loss: 0.4772 - auroc: 0.503 - ETA: 5:23 - loss: 0.4771 - a
uroc: 0.503 - ETA: 5:21 - loss: 0.4771 - auroc: 0.503 - ETA: 5:20 - loss: 0.4770 - auroc: 0.503 -
ETA: 5:19 - loss: 0.4769 - auroc: 0.503 - ETA: 5:18 - loss: 0.4767 - auroc: 0.503 - ETA: 5:17 - lo
ss: 0.4767 - auroc: 0.503 - ETA: 5:15 - loss: 0.4767 - auroc: 0.504 - ETA: 5:14 - loss: 0.4766 - a
uroc: 0.504 - ETA: 5:13 - loss: 0.4767 - auroc: 0.504 - ETA: 5:11 - loss: 0.4766 - auroc: 0.504 -
ETA: 5:10 - loss: 0.4765 - auroc: 0.504 - ETA: 5:09 - loss: 0.4765 - auroc: 0.504 - ETA: 5:08 - lo
ss: 0.4764 - auroc: 0.504 - ETA: 5:06 - loss: 0.4762 - auroc: 0.504 - ETA: 5:05 - loss: 0.4762 - a
uroc: 0.504 - ETA: 5:04 - loss: 0.4761 - auroc: 0.504 - ETA: 5:03 - loss: 0.4760 - auroc: 0.505 -
ETA: 5:01 - loss: 0.4759 - auroc: 0.505 - ETA: 5:00 - loss: 0.4759 - auroc: 0.505 - ETA: 4:59 - lo
ss: 0.4758 - auroc: 0.505 - ETA: 4:58 - loss: 0.4759 - auroc: 0.505 - ETA: 4:56 - loss: 0.4759 - a
uroc: 0.505 - ETA: 4:55 - loss: 0.4758 - auroc: 0.505 - ETA: 4:54 - loss: 0.4758 - auroc: 0.505 -
ETA: 4:53 - loss: 0.4757 - auroc: 0.505 - ETA: 4:52 - loss: 0.4757 - auroc: 0.505 - ETA: 4:50 - lo
ss: 0.4759 - auroc: 0.505 - ETA: 4:49 - loss: 0.4759 - auroc: 0.505 - ETA: 4:48 - loss: 0.4759 - a
uroc: 0.506 - ETA: 4:47 - loss: 0.4756 - auroc: 0.505 - ETA: 4:45 - loss: 0.4757 - auroc: 0.505 -
ETA: 4:44 - loss: 0.4759 - auroc: 0.506 - ETA: 4:43 - loss: 0.4757 - auroc: 0.506 - ETA: 4:42 - lo
ss: 0.4756 - auroc: 0.506 - ETA: 4:40 - loss: 0.4755 - auroc: 0.506674496/76473
754 - auroc: 0.506 - ETA: 4:37 - loss: 0.4754 - auroc: 0.506 - ETA: 4:35 - loss: 0.4754 - auroc: 0
.506 - ETA: 4:34 - loss: 0.4754 - auroc: 0.507 - ETA: 4:33 - loss: 0.4754 - auroc: 0.507 - ETA: 4:
32 - loss: 0.4754 - auroc: 0.507 - ETA: 4:30 - loss: 0.4753 - auroc: 0.507 - ETA: 4:29 - loss: 0.4
753 - auroc: 0.507 - ETA: 4:28 - loss: 0.4753 - auroc: 0.507 - ETA: 4:27 - loss: 0.4752 - auroc: 0
.507 - ETA: 4:25 - loss: 0.4751 - auroc: 0.508 - ETA: 4:24 - loss: 0.4750 - auroc: 0.508 - ETA: 4:
23 - loss: 0.4750 - auroc: 0.508 - ETA: 4:22 - loss: 0.4751 - auroc: 0.508 - ETA: 4:20 - loss: 0.4
750 - auroc: 0.508 - ETA: 4:19 - loss: 0.4749 - auroc: 0.508 - ETA: 4:18 - loss: 0.4748 - auroc: 0
.508 - ETA: 4:17 - loss: 0.4748 - auroc: 0.508 - ETA: 4:15 - loss: 0.4748 - auroc: 0.508 - ETA: 4:
14 - loss: 0.4747 - auroc: 0.508 - ETA: 4:13 - loss: 0.4746 - auroc: 0.508 - ETA: 4:12 - loss: 0.4
744 - auroc: 0.508 - ETA: 4:10 - loss: 0.4743 - auroc: 0.508 - ETA: 4:09 - loss: 0.4745 - auroc: 0
.509 - ETA: 4:08 - loss: 0.4745 - auroc: 0.509 - ETA: 4:07 - loss: 0.4743 - auroc: 0.509 - ETA: 4:
05 - loss: 0.4742 - auroc: 0.509 - ETA: 4:04 - loss: 0.4741 - auroc: 0.509 - ETA: 4:03 - loss: 0.4
741 - auroc: 0.510 - ETA: 4:02 - loss: 0.4740 - auroc: 0.510 - ETA: 4:00 - loss: 0.4741 - auroc: 0
.510 - ETA: 3:59 - loss: 0.4741 - auroc: 0.510 - ETA: 3:58 - loss: 0.4741 - auroc: 0.510 - ETA: 3:
57 - loss: 0.4740 - auroc: 0.510 - ETA: 3:55 - loss: 0.4740 - auroc: 0.510 - ETA: 3:54 - loss: 0.4
740 - auroc: 0.510 - ETA: 3:53 - loss: 0.4739 - auroc: 0.510 - ETA: 3:52 - loss: 0.4738 - auroc: 0
.510 - ETA: 3:51 - loss: 0.4737 - auroc: 0.510 - ETA: 3:49 - loss: 0.4736 - auroc: 0.510 - ETA: 3:
48 - loss: 0.4735 - auroc: 0.510 - ETA: 3:47 - loss: 0.4736 - auroc: 0.510 - ETA: 3:46 - loss: 0.4
735 - auroc: 0.510 - ETA: 3:44 - loss: 0.4734 - auroc: 0.510 - ETA: 3:43 - loss: 0.4734 - auroc: 0
.510 - ETA: 3:42 - loss: 0.4734 - auroc: 0.510 - ETA: 3:41 - loss: 0.4734 - auroc: 0.510 - ETA: 3:
39 - loss: 0.4733 - auroc: 0.511 - ETA: 3:38 - loss: 0.4733 - auroc: 0.511 - ETA: 3:37 - loss: 0.4
```

```
733 - auroc: 0.511 - ETA: 3:36 - loss: 0.4732 - auroc: 0.511 - ETA: 3:34 - loss: 0.4730 - auroc: 0
.511 - ETA: 3:33 - loss: 0.4730 - auroc: 0.511 - ETA: 3:32 - loss: 0.4729 - auroc: 0.511 - ETA: 3:
31 - loss: 0.4727 - auroc: 0.511 - ETA: 3:29 - loss: 0.4727 - auroc: 0.511 - ETA: 3:28 - loss: 0.4
726 - auroc: 0.511 - ETA: 3:27 - loss: 0.4726 - auroc: 0.512 - ETA: 3:26 - loss: 0.4725 - auroc: 0
.512 - ETA: 3:24 - loss: 0.4725 - auroc: 0.512 - ETA: 3:23 - loss: 0.4724 - auroc: 0.512 - ETA: 3:
22 - loss: 0.4724 - auroc: 0.512 - ETA: 3:21 - loss: 0.4723 - auroc: 0.512 - ETA: 3:19 - loss: 0.4
722 - auroc: 0.513 - ETA: 3:18 - loss: 0.4721 - auroc: 0.513 - ETA: 3:17 - loss: 0.4719 - auroc: 0
.513 - ETA: 3:16 - loss: 0.4719 - auroc: 0.513 - ETA: 3:14 - loss: 0.4718 - auroc: 0.513 - ETA: 3:
13 - loss: 0.4717 - auroc: 0.513 - ETA: 3:12 - loss: 0.4716 - auroc: 0.514 - ETA: 3:11 - loss: 0.4
716 - auroc: 0.514 - ETA: 3:09 - loss: 0.4716 - auroc: 0.514 - ETA: 3:08 - loss: 0.4715 - auroc: 0
.514 - ETA: 3:07 - loss: 0.4715 - auroc: 0.514 - ETA: 3:06 - loss: 0.4714 - auroc: 0.514 - ETA: 3:
04 - loss: 0.4712 - auroc: 0.514 - ETA: 3:03 - loss: 0.4711 - auroc: 0.514 - ETA: 3:02 - loss: 0.4
711 - auroc: 0.515 - ETA: 3:01 - loss: 0.4709 - auroc: 0.515 - ETA: 2:59 - loss: 0.4708 - auroc: 0
.515 - ETA: 2:58 - loss: 0.4707 - auroc: 0.515 - ETA: 2:57 - loss: 0.4707 - auroc: 0.515 - ETA: 2:
56 - loss: 0.4707 - auroc: 0.515 - ETA: 2:54 - loss: 0.4707 - auroc: 0.515 - ETA: 2:53 - loss: 0.4
705 - auroc: 0.516 - ETA: 2:52 - loss: 0.4704 - auroc: 0.516 - ETA: 2:51 - loss: 0.4703 - auroc: 0
.516 - ETA: 2:49 - loss: 0.4702 - auroc: 0.516 - ETA: 2:48 - loss: 0.4702 - auroc: 0.516 - ETA: 2:
47 - loss: 0.4702 - auroc: 0.516 - ETA: 2:46 - loss: 0.4701 - auroc: 0.516 - ETA: 2:45 - loss: 0.4
702 - auroc: 0.516 - ETA: 2:43 - loss: 0.4702 - auroc: 0.516 - ETA: 2:42 - loss: 0.4700 - auroc: 0
.516 - ETA: 2:41 - loss: 0.4701 - auroc: 0.516 - ETA: 2:40 - loss: 0.4700 - auroc: 0.517 - ETA: 2:
38 - loss: 0.4700 - auroc: 0.517 - ETA: 2:37 - loss: 0.4699 - auroc: 0.517 - ETA: 2:36 - loss: 0.4
699 - auroc: 0.517 - ETA: 2:35 - loss: 0.4699 - auroc: 0.517 - ETA: 2:33 - loss: 0.4697 - auroc: 0
.517 - ETA: 2:32 - loss: 0.4697 - auroc: 0.517 - ETA: 2:31 - loss: 0.4695 - auroc: 0.517 - ETA: 2:
30 - loss: 0.4694 - auroc: 0.517 - ETA: 2:28 - loss: 0.4693 - auroc: 0.518 - ETA: 2:27 - loss: 0.4
693 - auroc: 0.518 - ETA: 2:26 - loss: 0.4692 - auroc: 0.518 - ETA: 2:25 - loss: 0.4692 - auroc: 0
.518 - ETA: 2:23 - loss: 0.4692 - auroc: 0.518 - ETA: 2:22 - loss: 0.4692 - auroc: 0.518 - ETA: 2:
21 - loss: 0.4691 - auroc: 0.517 - ETA: 2:20 - loss: 0.4691 - auroc: 0.517 - ETA: 2:18 - loss: 0.4
691 - auroc: 0.518 - ETA: 2:17 - loss: 0.4690 - auroc: 0.518 - ETA: 2:16 - loss: 0.4691 - auroc: 0
.518 - ETA: 2:15 - loss: 0.4691 - auroc: 0.518 - ETA: 2:13 - loss: 0.4692 - auroc: 0.518 - ETA: 2:
12 - loss: 0.4692 - auroc: 0.518 - ETA: 2:11 - loss: 0.4691 - auroc: 0.518 - ETA: 2:10 - loss: 0.4
689 - auroc: 0.519 - ETA: 2:08 - loss: 0.4688 - auroc: 0.519 - ETA: 2:07 - loss: 0.4689 - auroc: 0
.519 - ETA: 2:06 - loss: 0.4689 - auroc: 0.519 - ETA: 2:05 - loss: 0.4687 - auroc: 0.519 - ETA: 2:
04 - loss: 0.4686 - auroc: 0.519 - ETA: 2:02 - loss: 0.4685 - auroc: 0.519 - ETA: 2:01 - loss: 0.4
685 - auroc: 0.519 - ETA: 2:00 - loss: 0.4684 - auroc: 0.519 - ETA: 1:59 - loss: 0.4683 - auroc: 0
.520 - ETA: 1:57 - loss: 0.4683 - auroc: 0.520 - ETA: 1:56 - loss: 0.4683 - auroc: 0.520 - ETA: 1:
55 - loss: 0.4682 - auroc: 0.520 - ETA: 1:54 - loss: 0.4681 - auroc: 0.520 - ETA: 1:52 - loss: 0.4
680 - auroc: 0.520 - ETA: 1:51 - loss: 0.4679 - auroc: 0.520 - ETA: 1:50 - loss: 0.4678 - auroc: 0
.521 - ETA: 1:49 - loss: 0.4678 - auroc: 0.521 - ETA: 1:47 - loss: 0.4678 - auroc: 0.521 - ETA: 1:
46 - loss: 0.4678 - auroc: 0.521 - ETA: 1:45 - loss: 0.4676 - auroc: 0.521 - ETA: 1:44 - loss: 0.4
676 - auroc: 0.521 - ETA: 1:42 - loss: 0.4675 - auroc: 0.521 - ETA: 1:41 - loss: 0.4674 - auroc: 0
.521 - ETA: 1:40 - loss: 0.4672 - auroc: 0.521 - ETA: 1:39 - loss: 0.4672 - auroc: 0.521 - ETA: 1:
37 - loss: 0.4671 - auroc: 0.521 - ETA: 1:36 - loss: 0.4670 - auroc: 0.521 - ETA: 1:35 - loss: 0.4
668 - auroc: 0.521 - ETA: 1:34 - loss: 0.4668 - auroc: 0.521 - ETA: 1:32 - loss: 0.4668 - auroc: 0
.521 - ETA: 1:31 - loss: 0.4667 - auroc: 0.521 - ETA: 1:30 - loss: 0.4665 - auroc: 0.521 - ETA: 1:
29 - loss: 0.4664 - auroc: 0.522 - ETA: 1:27 - loss: 0.4663 - auroc: 0.522 - ETA: 1:26 - loss: 0.4
662 - auroc: 0.522 - ETA: 1:25 - loss: 0.4661 - auroc: 0.522 - ETA: 1:24 - loss: 0.4660 - auroc: 0
.522 - ETA: 1:23 - loss: 0.4662 - auroc: 0.522 - ETA: 1:21 - loss: 0.4661 - auroc: 0.522 - ETA: 1:
20 - loss: 0.4660 - auroc: 0.522 - ETA: 1:19 - loss: 0.4660 - auroc: 0.522 - ETA: 1:18 - loss: 0.4
661 - auroc: 0.522 - ETA: 1:16 - loss: 0.4661 - auroc: 0.523 - ETA: 1:15 - loss: 0.4661 - auroc: 0
.523 - ETA: 1:14 - loss: 0.4659 - auroc: 0.523 - ETA: 1:13 - loss: 0.4658 - auroc: 0.523 - ETA: 1:
11 - loss: 0.4658 - auroc: 0.523 - ETA: 1:10 - loss: 0.4657 - auroc: 0.523 - ETA: 1:09 - loss: 0.4
656 - auroc: 0.524 - ETA: 1:08 - loss: 0.4655 - auroc: 0.524 - ETA: 1:06 - loss: 0.4655 - auroc: 0
.524 - ETA: 1:05 - loss: 0.4654 - auroc: 0.524 - ETA: 1:04 - loss: 0.4655 - auroc: 0.524 - ETA: 1:
03 - loss: 0.4654 - auroc: 0.524 - ETA: 1:01 - loss: 0.4653 - auroc: 0.524 - ETA: 1:00 - loss: 0.4
653 - auroc: 0.524 - ETA: 59s - loss: 0.4652 - auroc: 0.524 - ETA: 58s - loss: 0.4650 - auroc: 0.5
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: 0.4648 - aur
oc: 0.52 - ETA: 44s - loss: 0.4647 - auroc: 0.52 - ETA: 43s - loss: 0.4646 - auroc: 0.52 - ETA: 42
s - loss: 0.4647 - auroc: 0.52 - ETA: 40s - loss: 0.4648 - auroc: 0.52 - ETA: 39s - loss: 0.4647 -
auroc: 0.52 - ETA: 38s - loss: 0.4646 - auroc: 0.526276473/76473 [==============]
- ETA: 37s - loss: 0.4645 - auroc: 0.52 - ETA: 35s - loss: 0.4645 - auroc: 0.52 - ETA: 34s - loss:
0.4643 - auroc: 0.52 - ETA: 33s - loss: 0.4642 - auroc: 0.52 - ETA: 32s - loss: 0.4642 - auroc: 0.
52 - ETA: 30s - loss: 0.4641 - auroc: 0.52 - ETA: 29s - loss: 0.4640 - auroc: 0.52 - ETA: 28s - lo
ss: 0.4639 - auroc: 0.52 - ETA: 27s - loss: 0.4639 - auroc: 0.52 - ETA: 25s - loss: 0.4639 - auroc
: 0.52 - ETA: 24s - loss: 0.4639 - auroc: 0.52 - ETA: 23s - loss: 0.4639 - auroc: 0.52 - ETA: 22s
- loss: 0.4638 - auroc: 0.52 - ETA: 20s - loss: 0.4639 - auroc: 0.52 - ETA: 19s - loss: 0.4639 - a
uroc: 0.52 - ETA: 18s - loss: 0.4639 - auroc: 0.52 - ETA: 17s - loss: 0.4638 - auroc: 0.52 - ETA:
15s - loss: 0.4638 - auroc: 0.52 - ETA: 14s - loss: 0.4638 - auroc: 0.52 - ETA: 13s - loss: 0.4638
- auroc: 0.52 - ETA: 12s - loss: 0.4638 - auroc: 0.52 - ETA: 11s - loss: 0.4638 - auroc: 0.52 - ET
A: 9s - loss: 0.4637 - auroc: 0.5282 - ETA: 8s - loss: 0.4637 - auroc: 0.528 - ETA: 7s - loss: 0.4
636 - auroc: 0.528 - ETA: 6s - loss: 0.4636 - auroc: 0.528 - ETA: 4s - loss: 0.4635 - auroc: 0.528
- ETA: 3s - loss: 0.4635 - auroc: 0.528 - ETA: 2s - loss: 0.4635 - auroc: 0.528 - ETA: 1s - loss:
0.4635 - auroc: 0.528 - 1993s 26ms/step - loss: 0.4635 - auroc: 0.5284 - val loss: 0.4080 - val au
roc: 0.6781
```

```
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.
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                                                                L111. 2.01
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: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 00002: val\_loss improved from 0.40803 to 0.38558, saving model to model\_1.h5 Epoch 3/20

12416/76473 [===>......] - ETA: 24:00 - loss: 0.2767 - auroc: 0.82 - ETA: 24:1 0 - loss: 0.3189 - auroc: 0.74 - ETA: 24:07 - loss: 0.3190 - auroc: 0.74 - ETA: 24:16 - loss: 0.36 59 - auroc: 0.73 - ETA: 24:14 - loss: 0.3905 - auroc: 0.72 - ETA: 24:52 - loss: 0.3953 - auroc: 0. 71 - ETA: 24:46 - loss: 0.3880 - auroc: 0.72 - ETA: 24:40 - loss: 0.3773 - auroc: 0.73 - ETA: 24:4 5 - loss: 0.3680 - auroc: 0.74 - ETA: 24:44 - loss: 0.3650 - auroc: 0.76 - ETA: 24:35 - loss: 0.36 23 - auroc: 0.76 - ETA: 24:31 - loss: 0.3692 - auroc: 0.77 - ETA: 24:30 - loss: 0.3717 - auroc: 0. 78 - ETA: 24:26 - loss: 0.3694 - auroc: 0.78 - ETA: 24:25 - loss: 0.3678 - auroc: 0.76 - ETA: 24:2 4 - loss: 0.3650 - auroc: 0.76 - ETA: 24:21 - loss: 0.3718 - auroc: 0.75 - ETA: 24:21 - loss: 0.37 21 - auroc: 0.75 - ETA: 24:19 - loss: 0.3757 - auroc: 0.75 - ETA: 24:15 - loss: 0.3820 - auroc: 0. 75 - ETA: 24:13 - loss: 0.3800 - auroc: 0.74 - ETA: 24:11 - loss: 0.3831 - auroc: 0.74 - ETA: 24:0 9 - loss: 0.3810 - auroc: 0.74 - ETA: 24:06 - loss: 0.3805 - auroc: 0.74 - ETA: 24:03 - loss: 0.38 21 - auroc: 0.74 - ETA: 24:02 - loss: 0.3778 - auroc: 0.75 - ETA: 24:01 - loss: 0.3805 - auroc: 0. 75 - ETA: 23:59 - loss: 0.3808 - auroc: 0.75 - ETA: 23:58 - loss: 0.3794 - auroc: 0.75 - ETA: 23:5 6 - loss: 0.3813 - auroc: 0.75 - ETA: 23:53 - loss: 0.3811 - auroc: 0.74 - ETA: 23:52 - loss: 0.37 86 - auroc: 0.74 - ETA: 23:50 - loss: 0.3777 - auroc: 0.74 - ETA: 23:49 - loss: 0.3751 - auroc: 0. 75 - ETA: 23:48 - loss: 0.3764 - auroc: 0.75 - ETA: 23:45 - loss: 0.3777 - auroc: 0.75 - ETA: 23:4 3 - loss: 0.3825 - auroc: 0.75 - ETA: 23:41 - loss: 0.3823 - auroc: 0.75 - ETA: 23:41 - loss: 0.38 13 - auroc. 0 75 - FTD. 23.40 - loss. 0 3833 - auroc. 0 75 - FTD. 23.38 - loss. 0 3816 - auroc. 0

```
DID. ZJ.TV
                                TO33. 0.7077
                                                auruc. 0.10
                                                              DID. 20.00
                                                                           TO33. 0.70TO
75 - ETA: 23:37 - loss: 0.3828 - 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: 23:32 - loss: 0.38
71 - auroc: 0.74 - ETA: 23:30 - loss: 0.3859 - auroc: 0.75 - ETA: 23:29 - loss: 0.3844 - auroc: 0.
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: 0.3794 - 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: 0.74 - ETA: 20:55 - loss: 0.37
88 - auroc: 0.74 - ETA: 20:54 - loss: 0.3782 - auroc: 0.74 - ETA: 20:52 - loss: 0.3784 - auroc: 0.
73 - ETA: 20:51 - loss: 0.3782 - auroc: 0.73 - ETA: 20:50 - loss: 0.3781 - auroc: 0.73 - ETA: 20:4
9 - loss: 0.3777 - auroc: 0.73 - ETA: 20:48 - loss: 0.3784 - auroc: 0.73 - ETA: 20:46 - loss: 0.37
83 - auroc: 0.73 - ETA: 20:45 - loss: 0.3783 - auroc: 0.73 - ETA: 20:44 - loss: 0.3781 - auroc: 0.
73 - ETA: 20:43 - loss: 0.3792 - auroc: 0.73 - ETA: 20:41 - loss: 0.3793 - auroc: 0.73 - ETA: 20:4
0 - loss: 0.3794 - auroc: 0.73 - ETA: 20:39 - loss: 0.3796 - auroc: 0.73 - ETA: 20:38 - loss: 0.38
00 - auroc: 0.73 - ETA: 20:37 - loss: 0.3806 - auroc: 0.73 - ETA: 20:35 - loss: 0.3802 - auroc: 0.
73 - ETA: 20:34 - loss: 0.3800 - auroc: 0.73 - ETA: 20:33 - loss: 0.3796 - auroc: 0.73 - ETA: 20:3
2 - loss: 0.3796 - auroc: 0.73 - ETA: 20:31 - loss: 0.3800 - auroc: 0.73 - ETA: 20:30 - loss: 0.38
01 - auroc: 0.73 - ETA: 20:29 - loss: 0.3808 - auroc: 0.737024832/76473
[======>.....] - ETA: 20:27 - loss: 0.3806 - auroc: 0.73 - ETA: 20:26 - loss: 0.
3806 - auroc: 0.73 - ETA: 20:25 - loss: 0.3805 - auroc: 0.73 - ETA: 20:24 - loss: 0.3808 - auroc:
0.73 - ETA: 20:22 - loss: 0.3807 - auroc: 0.73 - ETA: 20:21 - loss: 0.3811 - auroc: 0.73 - ETA: 20
:20 - loss: 0.3815 - auroc: 0.73 - ETA: 20:19 - loss: 0.3812 - auroc: 0.73 - ETA: 20:18 - loss: 0.
3822 - auroc: 0.73 - ETA: 20:17 - loss: 0.3825 - auroc: 0.73 - ETA: 20:15 - loss: 0.3824 - auroc: 0.73 - ETA: 20:14 - loss: 0.3827 - auroc: 0.73 - ETA: 20:13 - loss: 0.3826 - auroc: 0.73 - ETA: 20
:12 - loss: 0.3830 - auroc: 0.73 - ETA: 20:11 - loss: 0.3830 - auroc: 0.73 - ETA: 20:10 - loss: 0.
3835 - auroc: 0.73 - ETA: 20:08 - loss: 0.3831 - auroc: 0.73 - ETA: 20:07 - loss: 0.3829 - auroc:
0.73 - ETA: 20:06 - loss: 0.3827 - auroc: 0.73 - ETA: 20:05 - loss: 0.3828 - auroc: 0.73 - ETA: 20
:03 - loss: 0.3823 - auroc: 0.73 - ETA: 20:02 - loss: 0.3824 - auroc: 0.73 - ETA: 20:01 - loss: 0.
```

```
JUZU - QUIUC. V./J - EIM. ZV.VV - 1055. V.JUJU - QUIUC. V./J - EIM. 17.JU - 1055. V.JUZJ - QUIUC.
0.73 - ETA: 19:57 - loss: 0.3829 - auroc: 0.73 - ETA: 19:56 - loss: 0.3826 - auroc: 0.73 - ETA: 19
:55 - loss: 0.3828 - auroc: 0.73 - ETA: 19:54 - loss: 0.3827 - auroc: 0.73 - ETA: 19:52 - loss: 0.
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: 0.3796 - auroc: 0.73 - ETA: 12:42 - loss: 0.3796 - auroc: 0.73 - ETA: 12:41 - loss: 0.3796 - aur
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                                                      mmx . 10.00
```

```
OC: U./3 - ETA: 12:39 - 10SS: U.3/96 - auroc: U./3 - ETA: 12:38 - 10SS: U.3/96 - auroc: U./3 - ETA
: 12:37 - loss: 0.3795 - auroc: 0.73 - ETA: 12:36 - loss: 0.3795 - auroc: 0.73 - ETA: 12:34 - loss
: 0.3792 - auroc: 0.73 - ETA: 12:33 - loss: 0.3794 - auroc: 0.73 - ETA: 12:32 - loss: 0.3794 - aur
oc: 0.737849664/76473 [==========>.....] - ETA: 12:31 - loss: 0.3791 - auroc: 0.73 -
ETA: 12:30 - loss: 0.3789 - auroc: 0.73 - ETA: 12:28 - loss: 0.3791 - auroc: 0.73 - ETA: 12:27 - 1
oss: 0.3790 - auroc: 0.73 - ETA: 12:26 - loss: 0.3790 - auroc: 0.73 - ETA: 12:25 - loss: 0.3791 -
auroc: 0.73 - ETA: 12:23 - loss: 0.3791 - auroc: 0.73 - ETA: 12:22 - loss: 0.3791 - auroc: 0.73 -
ETA: 12:21 - loss: 0.3791 - auroc: 0.73 - ETA: 12:20 - loss: 0.3792 - auroc: 0.73 - ETA: 12:19 - 1
oss: 0.3790 - auroc: 0.73 - ETA: 12:17 - loss: 0.3790 - auroc: 0.73 - ETA: 12:16 - loss: 0.3788 -
auroc: 0.73 - ETA: 12:15 - loss: 0.3788 - auroc: 0.73 - ETA: 12:14 - loss: 0.3789 - auroc: 0.73 -
ETA: 12:12 - loss: 0.3788 - auroc: 0.73 - ETA: 12:11 - loss: 0.3788 - auroc: 0.73 - ETA: 12:10 - 1
oss: 0.3788 - auroc: 0.73 - ETA: 12:09 - loss: 0.3789 - auroc: 0.73 - ETA: 12:08 - loss: 0.3789 -
auroc: 0.73 - ETA: 12:06 - loss: 0.3787 - auroc: 0.73 - ETA: 12:05 - loss: 0.3791 - auroc: 0.73 -
ETA: 12:04 - loss: 0.3792 - auroc: 0.73 - ETA: 12:03 - loss: 0.3793 - auroc: 0.73 - ETA: 12:01 - 1
oss: 0.3793 - auroc: 0.73 - ETA: 12:00 - loss: 0.3792 - auroc: 0.73 - ETA: 11:59 - loss: 0.3794 -
auroc: 0.73 - ETA: 11:58 - loss: 0.3794 - auroc: 0.73 - ETA: 11:57 - loss: 0.3794 - auroc: 0.73 -
ETA: 11:55 - loss: 0.3791 - auroc: 0.73 - ETA: 11:54 - loss: 0.3791 - auroc: 0.73 - ETA: 11:53 - 1
oss: 0.3791 - auroc: 0.73 - ETA: 11:52 - loss: 0.3792 - auroc: 0.73 - ETA: 11:50 - loss: 0.3792 -
auroc: 0.73 - ETA: 11:49 - loss: 0.3791 - auroc: 0.73 - ETA: 11:48 - loss: 0.3791 - auroc: 0.73 -
ETA: 11:47 - loss: 0.3791 - auroc: 0.73 - ETA: 11:45 - loss: 0.3793 - auroc: 0.73 - ETA: 11:44 - 1
oss: 0.3796 - auroc: 0.73 - ETA: 11:43 - loss: 0.3794 - auroc: 0.73 - ETA: 11:42 - loss: 0.3795 -
auroc: 0.73 - ETA: 11:41 - loss: 0.3796 - auroc: 0.73 - ETA: 11:39 - loss: 0.3795 - auroc: 0.73 -
ETA: 11:38 - loss: 0.3795 - auroc: 0.73 - ETA: 11:37 - loss: 0.3793 - auroc: 0.73 - ETA: 11:36 - l
oss: 0.3791 - auroc: 0.73 - ETA: 11:34 - loss: 0.3791 - auroc: 0.73 - ETA: 11:33 - loss: 0.3790 -
auroc: 0.73 - ETA: 11:32 - loss: 0.3791 - auroc: 0.73 - ETA: 11:31 - loss: 0.3790 - auroc: 0.73 -
ETA: 11:29 - loss: 0.3790 - auroc: 0.73 - ETA: 11:28 - loss: 0.3791 - auroc: 0.73 - ETA: 11:27 - 1
oss: 0.3790 - auroc: 0.73 - ETA: 11:26 - loss: 0.3790 - auroc: 0.73 - ETA: 11:25 - loss: 0.3789 -
auroc: 0.73 - ETA: 11:24 - loss: 0.3789 - auroc: 0.73 - ETA: 11:22 - loss: 0.3790 - auroc: 0.73 -
ETA: 11:21 - loss: 0.3789 - auroc: 0.73 - ETA: 11:20 - loss: 0.3789 - auroc: 0.73 - ETA: 11:19 - l
oss: 0.3790 - auroc: 0.73 - ETA: 11:18 - loss: 0.3789 - auroc: 0.73 - ETA: 11:17 - loss: 0.3789 - auroc: 0.73 - ETA: 11:15 - loss: 0.3787 - auroc: 0.73 - ETA: 11:14 - loss: 0.3786 - auroc: 0.73 -
ETA: 11:13 - loss: 0.3787 - auroc: 0.73 - ETA: 11:12 - loss: 0.3785 - auroc: 0.73 - ETA: 11:11 - 1
oss: 0.3785 - auroc: 0.73 - ETA: 11:10 - loss: 0.3786 - auroc: 0.73 - ETA: 11:09 - loss: 0.3784 -
auroc: 0.73 - ETA: 11:07 - loss: 0.3782 - auroc: 0.73 - ETA: 11:06 - loss: 0.3784 - auroc: 0.73 -
ETA: 11:05 - loss: 0.3783 - auroc: 0.73 - ETA: 11:04 - loss: 0.3782 - auroc: 0.73 - ETA: 11:03 - 1
oss: 0.3781 - auroc: 0.73 - ETA: 11:01 - loss: 0.3781 - auroc: 0.74 - ETA: 11:00 - loss: 0.3781 -
auroc: 0.74 - ETA: 10:59 - loss: 0.3781 - auroc: 0.74 - ETA: 10:58 - loss: 0.3781 - auroc: 0.74 -
ETA: 10:57 - loss: 0.3783 - auroc: 0.74 - ETA: 10:55 - loss: 0.3783 - auroc: 0.74 - ETA: 10:54 - 1
oss: 0.3781 - auroc: 0.74 - ETA: 10:53 - loss: 0.3781 - auroc: 0.74 - ETA: 10:52 - loss: 0.3780 -
auroc: 0.74 - ETA: 10:51 - loss: 0.3779 - auroc: 0.74 - ETA: 10:49 - loss: 0.3779 - auroc: 0.74 -
ETA: 10:48 - loss: 0.3781 - auroc: 0.74 - ETA: 10:47 - loss: 0.3780 - auroc: 0.74 - ETA: 10:46 - 1
oss: 0.3782 - auroc: 0.73 - ETA: 10:45 - loss: 0.3782 - auroc: 0.73 - ETA: 10:43 - loss: 0.3780 -
auroc: 0.74 - ETA: 10:42 - loss: 0.3783 - auroc: 0.73 - ETA: 10:41 - loss: 0.3781 - auroc: 0.73 -
ETA: 10:40 - loss: 0.3781 - auroc: 0.73 - ETA: 10:38 - loss: 0.3780 - auroc: 0.73 - ETA: 10:37 - 1
oss: 0.3782 - auroc: 0.73 - ETA: 10:36 - loss: 0.3780 - auroc: 0.74 - ETA: 10:35 - loss: 0.3782 -
auroc: 0.73 - ETA: 10:34 - loss: 0.3783 - auroc: 0.73 - ETA: 10:33 - loss: 0.3783 - auroc: 0.73 -
ETA: 10:31 - loss: 0.3782 - auroc: 0.73 - ETA: 10:30 - loss: 0.3780 - auroc: 0.74 - ETA: 10:29 - 1
oss: 0.3779 - auroc: 0.74 - ETA: 10:28 - loss: 0.3777 - auroc: 0.74 - ETA: 10:27 - loss: 0.3776 -
auroc: 0.74 - ETA: 10:25 - loss: 0.3776 - auroc: 0.74 - ETA: 10:24 - loss: 0.3776 - auroc: 0.74 -
ETA: 10:23 - loss: 0.3775 - auroc: 0.74 - ETA: 10:22 - loss: 0.3776 - auroc: 0.74 - ETA: 10:21 - l
oss: 0.3775 - auroc: 0.74 - ETA: 10:19 - loss: 0.3775 - auroc: 0.74 - ETA: 10:18 - loss: 0.3777 -
auroc: 0.74 - ETA: 10:17 - loss: 0.3777 - auroc: 0.74 - ETA: 10:16 - loss: 0.3778 - auroc: 0.74 -
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oss: 0.3779 - auroc: 0.74 - ETA: 10:11 - loss: 0.3781 - auroc: 0.74 - ETA: 10:10 - loss: 0.3784 -
auroc: 0.74 - ETA: 10:09 - loss: 0.3784 - auroc: 0.74 - ETA: 10:08 - loss: 0.3788 - auroc: 0.74 -
ETA: 10:06 - loss: 0.3787 - auroc: 0.74 - ETA: 10:05 - loss: 0.3786 - auroc: 0.74 - ETA: 10:04 - 1
oss: 0.3786 - auroc: 0.74 - ETA: 10:03 - loss: 0.3790 - auroc: 0.74 - ETA: 10:02 - loss: 0.3789 -
auroc: 0.74 - ETA: 10:00 - loss: 0.3789 - auroc: 0.74 - ETA: 9:59 - loss: 0.3789 - auroc: 0.7405 -
ETA: 9:58 - loss: 0.3788 - auroc: 0.740 - ETA: 9:57 - loss: 0.3789 - auroc: 0.740 - ETA: 9:56 - lo
ss: 0.3788 - auroc: 0.740 - ETA: 9:54 - loss: 0.3787 - auroc: 0.740 - ETA: 9:53 - loss: 0.3787 - a
uroc: 0.740 - ETA: 9:52 - loss: 0.3787 - auroc: 0.740 - ETA: 9:51 - loss: 0.3786 - auroc: 0.740 -
ETA: 9:50 - loss: 0.3786 - auroc: 0.740 - ETA: 9:48 - loss: 0.3785 - auroc: 0.740 - ETA: 9:47 - lo
ss: 0.3786 - auroc: 0.740 - ETA: 9:46 - loss: 0.3787 - auroc: 0.740 - ETA: 9:45 - loss: 0.3788 - a
uroc: 0.740 - ETA: 9:43 - loss: 0.3788 - auroc: 0.740 - ETA: 9:42 - loss: 0.3789 - auroc: 0.740 -
ETA: 9:41 - loss: 0.3788 - auroc: 0.740 - ETA: 9:40 - loss: 0.3789 - auroc: 0.740 - ETA: 9:38 - lo
ss: 0.3789 - auroc: 0.740 - ETA: 9:37 - loss: 0.3789 - auroc: 0.739 - ETA: 9:36 - loss: 0.3789 - a
uroc: 0.740 - ETA: 9:35 - loss: 0.3790 - auroc: 0.740 - ETA: 9:33 - loss: 0.3788 - auroc: 0.740 -
ETA: 9:32 - loss: 0.3789 - auroc: 0.739 - ETA: 9:31 - loss: 0.3789 - auroc: 0.740 - ETA: 9:30 - lo
ss: 0.3789 - auroc: 0.740 - ETA: 9:29 - loss: 0.3788 - auroc: 0.740 - ETA: 9:27 - loss: 0.3787 - a
uroc: 0.740 - ETA: 9:26 - loss: 0.3789 - auroc: 0.740 - ETA: 9:25 - loss: 0.3790 - auroc: 0.740 -
ETA: 9:24 - loss: 0.3789 - auroc: 0.740 - ETA: 9:22 - loss: 0.3790 - auroc: 0.740 - ETA: 9:21 - lo
ss: 0.3788 - auroc: 0.740 - ETA: 9:20 - loss: 0.3788 - auroc: 0.740 - ETA: 9:19 - loss: 0.3790 - a
uroc: 0.740 - ETA: 9:18 - loss: 0.3790 - auroc: 0.740 - ETA: 9:16 - loss: 0.3789 - auroc: 0.740 -
ETA: 9:15 - loss: 0.3789 - auroc: 0.740 - ETA: 9:14 - loss: 0.3788 - auroc: 0.740 - ETA: 9:13 - lo
ss: 0.3788 - auroc: 0.740 - ETA: 9:11 - loss: 0.3788 - auroc: 0.740 - ETA: 9:10 - loss: 0.3786 - a
uroc: 0.740 - ETA: 9:09 - loss: 0.3786 - auroc: 0.740 - ETA: 9:08 - loss: 0.3784 - auroc: 0.740 -
ETA: 9:07 - loss: 0.3784 - auroc: 0.740 - ETA: 9:05 - loss: 0.3784 - auroc: 0.740 - ETA: 9:04 - lo
```

```
ss: U.3/83 - auroc: U./40 - ETA: 9:03 - loss: U.3/84 - auroc: U./40 - ETA: 9:02 - loss: U.3/83 - a
uroc: 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
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: 0.3
798 - auroc: 0.741 - ETA: 6:07 - loss: 0.3799 - auroc: 0.741 - ETA: 6:06 - loss: 0.3799 - auroc: 0
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02 - loss: 0.3800 - auroc: 0.741 - ETA: 6:01 - loss: 0.3801 - auroc: 0.741 - ETA: 6:00 - loss: 0.3
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    - auroc: 0.741 - ETA: 5:50 - loss: 0.3803 - auroc: 0.741 - ETA: 5:48 - loss: 0.3802 - auroc: 0
.741 - ETA: 5:47 - loss: 0.3803 - auroc: 0.741 - ETA: 5:46 - loss: 0.3803 - auroc: 0.741 - ETA: 5:
45 - loss: 0.3802 - auroc: 0.741 - ETA: 5:44 - loss: 0.3802 - auroc: 0.741 - ETA: 5:42 - loss: 0.3
803 - auroc: 0.741 - ETA: 5:41 - loss: 0.3802 - auroc: 0.741 - ETA: 5:40 - loss: 0.3804 - auroc: 0
.741 - ETA: 5:39 - loss: 0.3804 - auroc: 0.741 - ETA: 5:37 - loss: 0.3803 - auroc: 0.741 - ETA: 5:
36 - loss: 0.3806 - auroc: 0.741 - ETA: 5:35 - loss: 0.3805 - auroc: 0.741 - ETA: 5:34 - loss: 0.3
804 - auroc: 0.741 - ETA: 5:32 - loss: 0.3804 - auroc: 0.741 - ETA: 5:31 - loss: 0.3805 - auroc: 0
.741 - ETA: 5:30 - loss: 0.3804 - auroc: 0.741 - ETA: 5:29 - loss: 0.3805 - auroc: 0.741 - ETA: 5:
27 - loss: 0.3804 - auroc: 0.741 - ETA: 5:26 - loss: 0.3804 - auroc: 0.741 - ETA: 5:25 - loss: 0.3
```

```
804 - auroc: 0.741 - ETA: 5:24 - loss: 0.3806 - auroc: 0.741 - ETA: 5:22 - loss: 0.3805 - auroc: 0
.741 - ETA: 5:21 - loss: 0.3805 - auroc: 0.741 - ETA: 5:20 - loss: 0.3805 - auroc: 0.741 - ETA: 5:
19 - loss: 0.3805 - auroc: 0.741 - ETA: 5:17 - loss: 0.3804 - auroc: 0.741 - ETA: 5:16 - loss: 0.3
805 - auroc: 0.741 - ETA: 5:15 - loss: 0.3805 - auroc: 0.741 - ETA: 5:14 - loss: 0.3806 - auroc: 0
.741 - ETA: 5:13 - loss: 0.3806 - auroc: 0.741 - ETA: 5:11 - loss: 0.3806 - auroc: 0.741 - ETA: 5:
10 - loss: 0.3806 - auroc: 0.741 - ETA: 5:09 - loss: 0.3807 - auroc: 0.741 - ETA: 5:08 - loss: 0.3
807 - auroc: 0.741 - ETA: 5:06 - loss: 0.3808 - auroc: 0.741 - ETA: 5:05 - loss: 0.3807 - auroc: 0
.741 - ETA: 5:04 - loss: 0.3806 - auroc: 0.741 - ETA: 5:03 - loss: 0.3806 - auroc: 0.741 - ETA: 5:
01 - loss: 0.3806 - auroc: 0.741 - ETA: 5:00 - loss: 0.3806 - auroc: 0.741 - ETA: 4:59 - loss: 0.3
804 - auroc: 0.742 - ETA: 4:58 - loss: 0.3804 - auroc: 0.742 - ETA: 4:56 - loss: 0.3803 - auroc: 0
.742 - ETA: 4:55 - loss: 0.3803 - auroc: 0.742 - ETA: 4:54 - loss: 0.3804 - auroc: 0.742 - ETA: 4:
53 - loss: 0.3803 - auroc: 0.742 - ETA: 4:52 - loss: 0.3804 - auroc: 0.741 - ETA: 4:50 - loss: 0.3
804 - auroc: 0.741 - ETA: 4:49 - loss: 0.3803 - auroc: 0.742 - ETA: 4:48 - loss: 0.3803 - auroc: 0
.742 - ETA: 4:47 - loss: 0.3802 - auroc: 0.742 - ETA: 4:45 - loss: 0.3803 - auroc: 0.742 - ETA: 4:
44 - loss: 0.3803 - auroc: 0.742 - ETA: 4:43 - loss: 0.3803 - auroc: 0.742 - ETA: 4:42 - loss: 0.3
802 - auroc: 0.742 - ETA: 4:40 - loss: 0.3802 - auroc: 0.742 - ETA: 4:39 - loss: 0.3802 - auroc: 0
.742 - ETA: 4:38 - loss: 0.3802 - auroc: 0.742474560/76473 [============>.] - ETA:
4:37 - loss: 0.3801 - auroc: 0.742 - ETA: 4:35 - loss: 0.3801 - auroc: 0.742 - ETA: 4:34 - loss: 0
.3801 - auroc: 0.742 - ETA: 4:33 - loss: 0.3801 - auroc: 0.742 - ETA: 4:32 - loss: 0.3802 - auroc:
0.742 - ETA: 4:30 - loss: 0.3803 - auroc: 0.741 - ETA: 4:29 - loss: 0.3804 - auroc: 0.741 - ETA: 4
:28 - loss: 0.3804 - auroc: 0.741 - ETA: 4:27 - loss: 0.3804 - auroc: 0.741 - ETA: 4:26 - loss: 0.
3803 - auroc: 0.741 - ETA: 4:24 - loss: 0.3802 - auroc: 0.742 - ETA: 4:23 - loss: 0.3801 - auroc:
0.742 - ETA: 4:22 - loss: 0.3800 - auroc: 0.742 - ETA: 4:21 - loss: 0.3801 - auroc: 0.742 - ETA: 4
:19 - loss: 0.3801 - auroc: 0.742 - ETA: 4:18 - loss: 0.3801 - auroc: 0.742 - ETA: 4:17 - loss: 0.
3800 - auroc: 0.742 - ETA: 4:16 - loss: 0.3801 - auroc: 0.742 - ETA: 4:14 - loss: 0.3801 - auroc:
0.742 - ETA: 4:13 - loss: 0.3801 - auroc: 0.742 - ETA: 4:12 - loss: 0.3801 - auroc: 0.742 - ETA: 4
:11 - loss: 0.3803 - auroc: 0.742 - ETA: 4:09 - loss: 0.3804 - auroc: 0.741 - ETA: 4:08 - loss: 0.
3804 - auroc: 0.741 - ETA: 4:07 - loss: 0.3805 - auroc: 0.741 - ETA: 4:06 - loss: 0.3804 - auroc:
0.741 - ETA: 4:04 - loss: 0.3805 - auroc: 0.741 - ETA: 4:03 - loss: 0.3805 - auroc: 0.741 - ETA: 4
:02 - loss: 0.3805 - auroc: 0.741 - ETA: 4:01 - loss: 0.3806 - auroc: 0.741 - ETA: 4:00 - loss: 0.
3807 - auroc: 0.741 - ETA: 3:58 - loss: 0.3807 - auroc: 0.741 - ETA: 3:57 - loss: 0.3807 - auroc:
0.741 - ETA: 3:56 - loss: 0.3807 - auroc: 0.741 - ETA: 3:55 - loss: 0.3807 - auroc: 0.741 - ETA: 3
:53 - loss: 0.3806 - auroc: 0.741 - ETA: 3:52 - loss: 0.3805 - auroc: 0.741 - ETA: 3:51 - loss: 0.
3804 - auroc: 0.741 - ETA: 3:50 - loss: 0.3805 - auroc: 0.741 - ETA: 3:48 - loss: 0.3806 - auroc:
0.741 - ETA: 3:47 - loss: 0.3806 - auroc: 0.741 - ETA: 3:46 - loss: 0.3806 - auroc: 0.741 - ETA: 3
:45 - loss: 0.3807 - auroc: 0.741 - ETA: 3:43 - loss: 0.3807 - auroc: 0.741 - ETA: 3:42 - loss: 0.
3806 - auroc: 0.741 - ETA: 3:41 - loss: 0.3805 - auroc: 0.741 - ETA: 3:40 - loss: 0.3805 - auroc:
0.741 - ETA: 3:38 - loss: 0.3805 - auroc: 0.741 - ETA: 3:37 - loss: 0.3804 - auroc: 0.741 - ETA: 3
:36 - loss: 0.3805 - auroc: 0.741 - ETA: 3:35 - loss: 0.3803 - auroc: 0.741 - ETA: 3:34 - loss: 0.
3803 - auroc: 0.741 - ETA: 3:32 - loss: 0.3803 - auroc: 0.741 - ETA: 3:31 - loss: 0.3804 - auroc:
0.741 - ETA: 3:30 - loss: 0.3804 - auroc: 0.741 - ETA: 3:29 - loss: 0.3804 - auroc: 0.741 - ETA: 3
:27 - loss: 0.3802 - auroc: 0.741 - ETA: 3:26 - loss: 0.3801 - auroc: 0.741 - ETA: 3:25 - loss: 0.
3801 - auroc: 0.741 - ETA: 3:24 - loss: 0.3802 - auroc: 0.741 - ETA: 3:22 - loss: 0.3801 - auroc:
0.741 - ETA: 3:21 - loss: 0.3802 - auroc: 0.741 - ETA: 3:20 - loss: 0.3801 - auroc: 0.740 - ETA: 3
:19 - loss: 0.3800 - auroc: 0.740 - ETA: 3:17 - loss: 0.3799 - auroc: 0.741 - ETA: 3:16 - loss: 0.
3799 - auroc: 0.740 - ETA: 3:15 - loss: 0.3801 - auroc: 0.740 - ETA: 3:14 - loss: 0.3800 - auroc:
0.740 - ETA: 3:12 - loss: 0.3800 - auroc: 0.740 - ETA: 3:11 - loss: 0.3800 - auroc: 0.741 - ETA: 3
:10 - loss: 0.3800 - auroc: 0.741 - ETA: 3:09 - loss: 0.3799 - auroc: 0.740 - ETA: 3:07 - loss: 0.
3799 - auroc: 0.740 - ETA: 3:06 - loss: 0.3798 - auroc: 0.740 - ETA: 3:05 - loss: 0.3799 - auroc:
0.740 - ETA: 3:04 - loss: 0.3799 - auroc: 0.740 - ETA: 3:03 - loss: 0.3799 - auroc: 0.740 - ETA: 3
:01 - loss: 0.3799 - auroc: 0.740 - ETA: 3:00 - loss: 0.3799 - auroc: 0.740 - ETA: 2:59 - loss: 0.
3800 - auroc: 0.740 - ETA: 2:58 - loss: 0.3800 - auroc: 0.740 - ETA: 2:56 - loss: 0.3799 - auroc:
0.740 - ETA: 2:55 - loss: 0.3800 - auroc: 0.740 - ETA: 2:54 - loss: 0.3800 - auroc: 0.740 - ETA: 2
:53 - loss: 0.3799 - auroc: 0.740 - ETA: 2:51 - loss: 0.3800 - auroc: 0.740 - ETA: 2:50 - loss: 0.
3801 - auroc: 0.740 - ETA: 2:49 - loss: 0.3801 - auroc: 0.740 - ETA: 2:48 - loss: 0.3800 - auroc:
0.740 - ETA: 2:46 - loss: 0.3801 - auroc: 0.740 - ETA: 2:45 - loss: 0.3800 - auroc: 0.740 - ETA: 2
:44 - loss: 0.3800 - auroc: 0.740 - ETA: 2:43 - loss: 0.3801 - auroc: 0.740 - ETA: 2:41 - loss: 0.
3800 - auroc: 0.740 - ETA: 2:40 - loss: 0.3799 - auroc: 0.740 - ETA: 2:39 - loss: 0.3798 - auroc:
0.740 - ETA: 2:38 - loss: 0.3799 - auroc: 0.740 - ETA: 2:37 - loss: 0.3798 - auroc: 0.740 - ETA: 2
:35 - loss: 0.3798 - auroc: 0.740 - ETA: 2:34 - loss: 0.3799 - auroc: 0.740 - ETA: 2:33 - loss: 0.
3799 - auroc: 0.740 - ETA: 2:32 - loss: 0.3799 - auroc: 0.741 - ETA: 2:30 - loss: 0.3799 - auroc:
0.741 - ETA: 2:29 - loss: 0.3799 - auroc: 0.741 - ETA: 2:28 - loss: 0.3800 - auroc: 0.741 - ETA: 2
:27 - loss: 0.3801 - auroc: 0.741 - ETA: 2:25 - loss: 0.3802 - auroc: 0.741 - ETA: 2:24 - loss: 0.
3801 - auroc: 0.741 - ETA: 2:23 - loss: 0.3802 - auroc: 0.741 - ETA: 2:22 - loss: 0.3802 - auroc:
0.740 - ETA: 2:20 - loss: 0.3803 - auroc: 0.740 - ETA: 2:19 - loss: 0.3803 - auroc: 0.740 - ETA: 2
:18 - loss: 0.3803 - auroc: 0.740 - ETA: 2:17 - loss: 0.3802 - auroc: 0.740 - ETA: 2:15 - loss: 0.
3802 - auroc: 0.741 - ETA: 2:14 - loss: 0.3802 - auroc: 0.741 - ETA: 2:13 - loss: 0.3801 - auroc:
0.741 - ETA: 2:12 - loss: 0.3800 - auroc: 0.741 - ETA: 2:11 - loss: 0.3801 - auroc: 0.741 - ETA: 2
:09 - loss: 0.3801 - auroc: 0.741 - ETA: 2:08 - loss: 0.3801 - auroc: 0.741 - ETA: 2:07 - loss: 0.
3801 - auroc: 0.741 - ETA: 2:06 - loss: 0.3800 - auroc: 0.741 - ETA: 2:04 - loss: 0.3800 - auroc:
0.740 - ETA: 2:03 - loss: 0.3799 - auroc: 0.741 - ETA: 2:02 - loss: 0.3799 - auroc: 0.740 - ETA: 2
:01 - loss: 0.3800 - auroc: 0.741 - ETA: 1:59 - loss: 0.3800 - auroc: 0.741 - ETA: 1:58 - loss: 0.
3799 - auroc: 0.741 - ETA: 1:57 - loss: 0.3800 - auroc: 0.741 - ETA: 1:56 - loss: 0.3799 - auroc:
0.741 - ETA: 1:54 - loss: 0.3799 - auroc: 0.741 - ETA: 1:53 - loss: 0.3799 - auroc: 0.741 - ETA: 1
:52 - loss: 0.3798 - auroc: 0.741 - ETA: 1:51 - loss: 0.3797 - auroc: 0.741 - ETA: 1:49 - loss: 0.
3797 - auroc: 0.741 - ETA: 1:48 - loss: 0.3797 - auroc: 0.741 - ETA: 1:47 - loss: 0.3797 - auroc:
0.741 - ETA: 1:46 - loss: 0.3798 - auroc: 0.741 - ETA: 1:45 - loss: 0.3799 - auroc: 0.741 - ETA: 1
```

```
: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: 0.37
96 - 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: 0.7
4 - ETA: 48s - loss: 0.3801 - auroc: 0.74 - ETA: 46s - loss: 0.3800 - auroc: 0.74 - ETA: 45s - los
s: 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 - aur
TA: 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 - lo
ss: 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 - a
uroc: 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 - E
TA: 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: 24:4

3 - loss: 0.4312 - auroc: 0.66 - ETA: 24:39 - loss: 0.3914 - auroc: 0.72 - ETA: 24:40 - loss: 0.36

83 - auroc: 0.73 - ETA: 24:44 - loss: 0.3724 - auroc: 0.76 - ETA: 24:37 - loss: 0.3533 - auroc: 0.

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: 0.3730 - auroc: 0.75 - ETA: 15:14 - loss: 0.3731 - auroc: 0.75 - ETA: 15:13 - loss: 0.3731 - aur
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: 13:09 - loss: 0.3741 - auroc: 0.75 - ETA: 13:08 - loss: 0.3742 - auroc: 0.75 - ETA: 13:07 - loss
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: 0.3751 - auroc: 0.75 - ETA: 12:31 - loss: 0.3751 - auroc: 0.75 - ETA: 12:30 - loss: 0.3750 - aur
oc: 0.757149664/76473 [==========>.....] - ETA: 12:29 - loss: 0.3749 - auroc: 0.75 -
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0.755 - ETA: 1:45 - loss: 0.3728 - auroc: 0.756 - ETA: 1:44 - loss: 0.3728 - auroc: 0.756 - ETA: 1
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0.755 - ETA: 1:11 - loss: 0.3725 - auroc: 0.755 - ETA: 1:09 - loss: 0.3724 - auroc: 0.755 - ETA: 1
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0.755 - ETA: 1:02 - loss: 0.3724 - auroc: 0.755 - ETA: 1:01 - loss: 0.3724 - auroc: 0.755 - ETA: 1
:00 - loss: 0.3724 - auroc: 0.755 - ETA: 58s - loss: 0.3723 - auroc: 0.755 - ETA: 57s - loss: 0.37
23 - auroc: 0.75 - ETA: 56s - loss: 0.3724 - auroc: 0.75 - ETA: 55s - loss: 0.3724 - auroc: 0.75 -
ETA: 53s - loss: 0.3725 - auroc: 0.75 - ETA: 52s - loss: 0.3725 - auroc: 0.75 - ETA: 51s - loss: 0
.3725 - auroc: 0.75 - ETA: 50s - loss: 0.3725 - auroc: 0.75 - ETA: 49s - loss: 0.3726 - auroc: 0.7
5 - ETA: 47s - loss: 0.3726 - auroc: 0.75 - ETA: 46s - loss: 0.3725 - auroc: 0.75 - ETA: 45s - los
```

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 - aur oc: 0.755076473/76473 [================] - ETA: 35s - loss: 0.3726 - auroc: 0.75 - E TA: 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 - lo ss: 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 - a uroc: 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 - E TA: 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: 24:4
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77 - ETA: 21:58 - loss: 0.3618 - auroc: 0.77 - ETA: 21:57 - loss: 0.3620 - auroc: 0.77 - ETA: 21:5
```

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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 - 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 - 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 - auroc: 0.77 - ETA: 21:26 - loss: 0.3603 - auroc: 0.77 - ETA: 21:25 - loss: 0.3602 - auroc: 0.
77 - ETA: 21:24 - loss: 0.3597 - auroc: 0.77 - ETA: 21:23 - loss: 0.3596 - auroc: 0.77 - ETA: 21:2
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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 - 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
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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 - 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 - 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.
3583 - auroc: 0.77 - ETA: 20:29 - loss: 0.3584 - auroc: 0.77 - ETA: 20:28 - loss: 0.3583 - auroc: 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
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0.3788 - val_auroc: 0.7459
```

```
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)))
```

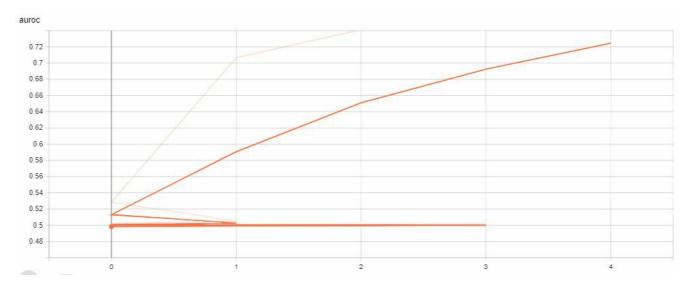
AUC score is 0.7478621969408079

# **Tensor Board Images**

```
In [205]:
```

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

Out[205]:

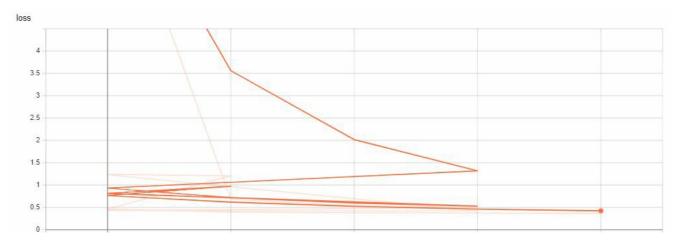


## Loss

```
In [207]:
```

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

Out[207]:

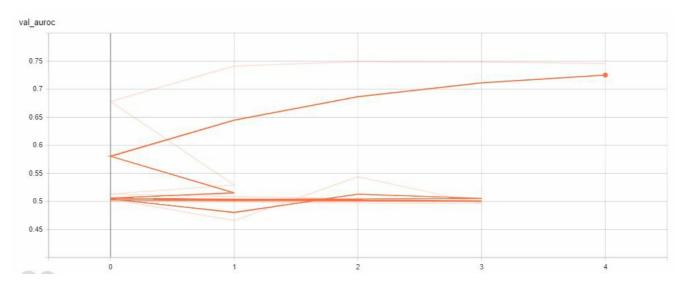


val\_auroc

In [208]:

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

Out[208]:

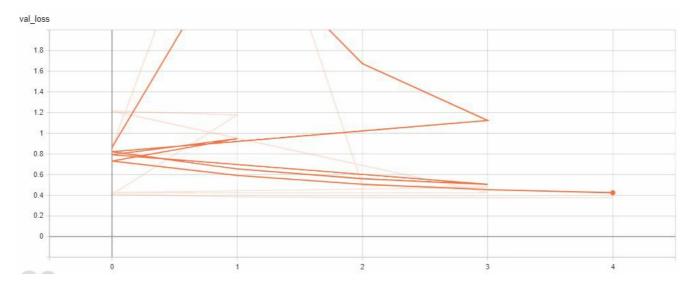


val\_loss

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

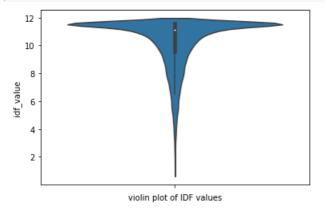
#### In [49]:

```
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 value between 2 and 11

```
# we are only considering the values between Z and II
mask = (tfidf df['idf value']>=2) & (tfidf df['idf value'] <=11)</pre>
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)
x_test['IntegerEncoding_2']
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 re
view_length , padding='post' )
text_padded_input_test = sequence.pad_sequences(x_test['IntegerEncoding_2'].values, maxlen=max_rev
iew 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_mat rix] , 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.12(0.001))(x)
flatten_12= Flatten()(x)
```

In [61]:

```
# Concetinate all the flatten lawers and numerical lawer
```

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]:

#### In [63]:

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

## Keeping verbosity 0

### In [43]:

## **Auc Score**

#### In [233]:

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

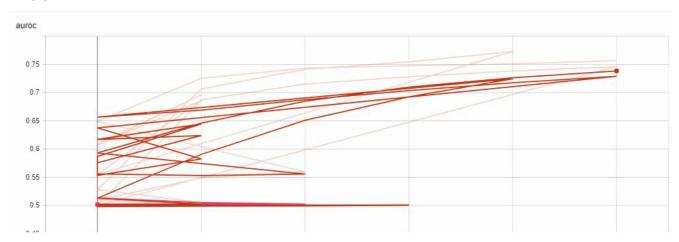
AUC score is 0.7535608117500832

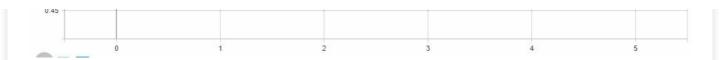
## **Tensor board Images**

## In [2]:

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

## Out[2]:

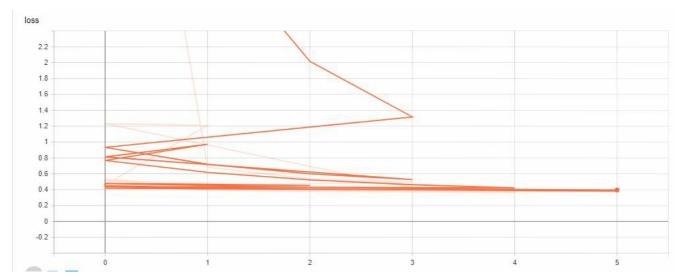




## In [3]:

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

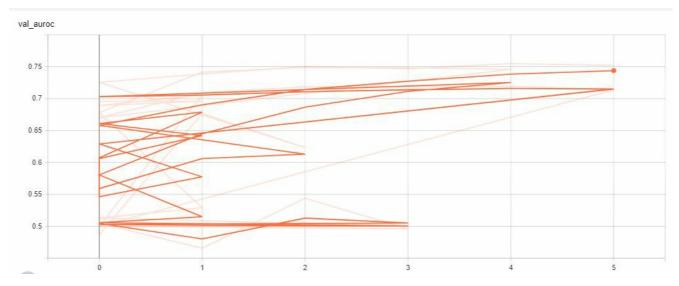
## Out[3]:



## In [4]:

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

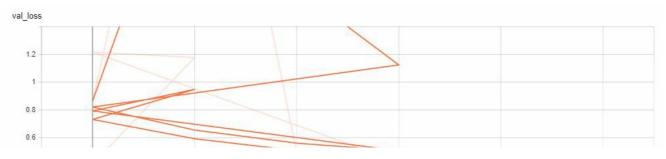
## Out[4]:

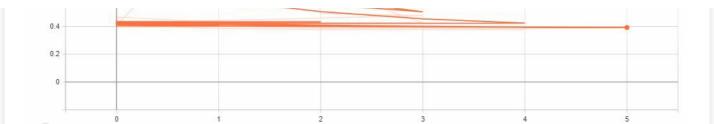


## In [5]:

```
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]:
expend train = np.expand dims(x train,2)
expend_test = np.expand_dims(x_test,2)
In [76]:
expend_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.12(0.
001))(x concatenate)
x=Dropout(0.5)(x)
x = Dense(8,activation="relu",kernel_initializer="he_normal",kernel_regularizer=regularizers.12(0.0
01))(x)
x=Dropout(0.3)(x)
x = Dense(4,activation="relu",kernel_initializer="he_normal",kernel_regularizer=regularizers.12(0.0
```

```
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, expend_train]
test_data_3 = [encoded_test, expend_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]	
convld_1 (ConvlD)	(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	convld_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])
```

Train on 76473 samples, validate on 32775 samples

#### 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)

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 - 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

```
87 - auroc: 0.755 - ETA: 5:56 - loss: 0.3789 - auroc: 0.755 - ETA: 5:56 - loss: 0.3789 - auroc: 0.
755 - ETA: 5:55 - loss: 0.3792 - auroc: 0.755 - ETA: 5:55 - loss: 0.3792 - auroc: 0.755 - ETA: 5:5
5 - loss: 0.3788 - auroc: 0.755 - ETA: 5:54 - loss: 0.3789 - auroc: 0.755 - ETA: 5:54 - loss: 0.37
86 - auroc: 0.754 - ETA: 5:54 - loss: 0.3790 - auroc: 0.754 - ETA: 5:53 - loss: 0.3787 - auroc: 0.
754 - ETA: 5:53 - loss: 0.3785 - auroc: 0.754 - ETA: 5:53 - loss: 0.3782 - auroc: 0.754 - ETA: 5:5
2 - loss: 0.3782 - auroc: 0.755 - ETA: 5:52 - loss: 0.3775 - auroc: 0.755 - ETA: 5:51 - loss: 0.37
75 - auroc: 0.755 - ETA: 5:51 - loss: 0.3770 - auroc: 0.756 - ETA: 5:51 - loss: 0.3769 - auroc: 0.
756 - ETA: 5:50 - loss: 0.3767 - auroc: 0.757 - ETA: 5:50 - loss: 0.3770 - auroc: 0.757 - ETA: 5:4
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0.758 - ETA: 1:48 - loss: 0.3786 - auroc: 0.758 - ETA: 1:48 - loss: 0.3785 - auroc: 0.758 - ETA: 1
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0.758 - ETA: 1:46 - loss: 0.3781 - auroc: 0.758 - ETA: 1:46 - loss: 0.3782 - auroc: 0.758 - ETA: 1
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0.758 - ETA: 1:44 - loss: 0.3778 - auroc: 0.758 - ETA: 1:43 - loss: 0.3778 - auroc: 0.758 - ETA: 1
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0.758 - ETA: 1:41 - loss: 0.3778 - auroc: 0.758 - ETA: 1:41 - loss: 0.3778 - auroc: 0.759 - ETA: 1
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0.758 - ETA: 1:37 - loss: 0.3780 - auroc: 0.758 - ETA: 1:36 - loss: 0.3780 - auroc: 0.758 - ETA: 1
:36 - loss: 0.3780 - auroc: 0.758 - ETA: 1:36 - loss: 0.3780 - auroc: 0.758 - ETA: 1:35 - loss: 0.
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0.758 - ETA: 1:34 - loss: 0.3780 - auroc: 0.758 - ETA: 1:34 - loss: 0.3781 - auroc: 0.758 - ETA: 1
:34 - loss: 0.3780 - auroc: 0.758 - ETA: 1:33 - loss: 0.3779 - auroc: 0.758 - ETA: 1:33 - loss: 0.
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0.758 - ETA: 1:32 - loss: 0.3781 - auroc: 0.758 - ETA: 1:32 - loss: 0.3782 - auroc: 0.758 - ETA: 1
:31 - loss: 0.3782 - auroc: 0.758 - ETA: 1:31 - loss: 0.3782 - auroc: 0.758 - ETA: 1:31 - loss: 0.
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0.758 - ETA: 1:30 - loss: 0.3781 - auroc: 0.758 - ETA: 1:29 - loss: 0.3782 - auroc: 0.758 - ETA: 1
:29 - loss: 0.3782 - auroc: 0.758 - ETA: 1:29 - loss: 0.3780 - auroc: 0.758 - ETA: 1:28 - loss: 0.
3780 - auroc: 0.758 - ETA: 1:28 - loss: 0.3781 - auroc: 0.758 - ETA: 1:28 - loss: 0.3780 - auroc:
0.758 - ETA: 1:27 - loss: 0.3779 - auroc: 0.758 - ETA: 1:27 - loss: 0.3779 - auroc: 0.758 - ETA: 1
:27 - loss: 0.3780 - auroc: 0.758 - ETA: 1:26 - loss: 0.3780 - auroc: 0.758 - ETA: 1:26 - loss: 0.
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0.758 - ETA: 1:25 - loss: 0.3779 - auroc: 0.758 - ETA: 1:25 - loss: 0.3780 - auroc: 0.758 - ETA: 1
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0.758 - ETA: 1:20 - loss: 0.3781 - auroc: 0.758 - ETA: 1:20 - loss: 0.3781 - auroc: 0.758 - ETA: 1
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3780 - auroc: 0.757 - ETA: 1:19 - loss: 0.3780 - auroc: 0.757 - ETA: 1:18 - loss: 0.3779 - auroc:
0.757 - ETA: 1:18 - loss: 0.3781 - auroc: 0.757 - ETA: 1:18 - loss: 0.3780 - auroc: 0.758 - ETA: 1
:17 - loss: 0.3782 - auroc: 0.758 - ETA: 1:17 - loss: 0.3781 - auroc: 0.758 - ETA: 1:17 - loss: 0.
3780 - auroc: 0.758 - ETA: 1:16 - loss: 0.3779 - auroc: 0.758 - ETA: 1:16 - loss: 0.3778 - auroc:
0.758 - ETA: 1:16 - loss: 0.3778 - auroc: 0.758 - ETA: 1:15 - loss: 0.3778 - auroc: 0.758 - ETA: 1
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3778 - auroc: 0.758 - ETA: 1:14 - loss: 0.3779 - auroc: 0.758074944/76473
778 - auroc: 0.757 - ETA: 1:13 - loss: 0.3778 - auroc: 0.757 - ETA: 1:13 - loss: 0.3778 - auroc: 0
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12 - loss: 0.3777 - auroc: 0.757 - ETA: 1:11 - loss: 0.3777 - auroc: 0.757 - ETA: 1:11 - loss: 0.3
777 - auroc: 0.757 - ETA: 1:11 - loss: 0.3775 - auroc: 0.757 - ETA: 1:10 - loss: 0.3775 - auroc: 0
.757 - ETA: 1:10 - loss: 0.3774 - auroc: 0.757 - ETA: 1:10 - loss: 0.3773 - auroc: 0.758 - ETA: 1:
09 - loss: 0.3773 - auroc: 0.757 - ETA: 1:09 - loss: 0.3773 - auroc: 0.757 - ETA: 1:09 - loss: 0.3
773 - auroc: 0.757 - ETA: 1:08 - loss: 0.3773 - auroc: 0.757 - ETA: 1:08 - loss: 0.3772 - auroc: 0
.758 - ETA: 1:08 - loss: 0.3772 - auroc: 0.758 - ETA: 1:07 - loss: 0.3773 - auroc: 0.758 - ETA: 1:
07 - loss: 0.3772 - auroc: 0.758 - ETA: 1:07 - loss: 0.3772 - auroc: 0.758 - ETA: 1:06 - loss: 0.3
771 - auroc: 0.758 - ETA: 1:06 - loss: 0.3770 - auroc: 0.758 - ETA: 1:06 - loss: 0.3770 - auroc: 0
.758 - ETA: 1:05 - loss: 0.3770 - auroc: 0.758 - ETA: 1:05 - loss: 0.3771 - auroc: 0.758 - ETA: 1:
05 - loss: 0.3771 - auroc: 0.758 - ETA: 1:04 - loss: 0.3771 - auroc: 0.758 - ETA: 1:04 - loss: 0.3
770 - auroc: 0.758 - ETA: 1:04 - loss: 0.3770 - auroc: 0.758 - ETA: 1:03 - loss: 0.3769 - auroc: 0
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02 - loss: 0.3771 - auroc: 0.758 - ETA: 1:02 - loss: 0.3772 - auroc: 0.758 - ETA: 1:02 - loss: 0.3
773 - auroc: 0.757 - ETA: 1:01 - loss: 0.3773 - auroc: 0.757 - ETA: 1:01 - loss: 0.3773 - auroc: 0
.757 - ETA: 1:01 - loss: 0.3773 - auroc: 0.757 - ETA: 1:00 - loss: 0.3773 - auroc: 0.757 - ETA: 1:
00 - loss: 0.3774 - auroc: 0.757 - ETA: 1:00 - loss: 0.3774 - auroc: 0.757 - ETA: 59s - loss: 0.37
74 - auroc: 0.757 - ETA: 59s - loss: 0.3775 - auroc: 0.75 - ETA: 59s - loss: 0.3776 - auroc: 0.75
- ETA: 59s - loss: 0.3775 - auroc: 0.75 - ETA: 58s - loss: 0.3777 - auroc: 0.75 - ETA: 58s - loss:
0.3777 - auroc: 0.75 - ETA: 58s - loss: 0.3776 - auroc: 0.75 - ETA: 57s - loss: 0.3777 - auroc: 0.
75 - ETA: 57s - loss: 0.3776 - auroc: 0.75 - ETA: 57s - loss: 0.3777 - auroc: 0.75 - ETA: 56s - lo
ss: 0.3777 - auroc: 0.75 - ETA: 56s - loss: 0.3777 - auroc: 0.75 - ETA: 56s - loss: 0.3776 - auroc
: 0.75 - ETA: 55s - loss: 0.3777 - auroc: 0.75 - ETA: 55s - loss: 0.3778 - auroc: 0.75 - ETA: 55s
- loss: 0.3778 - auroc: 0.75 - ETA: 54s - loss: 0.3777 - auroc: 0.75 - ETA: 54s - loss: 0.3776 - a
uroc: 0.75 - ETA: 54s - loss: 0.3776 - auroc: 0.75 - ETA: 53s - loss: 0.3777 - auroc: 0.75 - ETA:
53s - loss: 0.3777 - auroc: 0.75 - ETA: 53s - loss: 0.3777 - auroc: 0.75 - ETA: 52s - loss: 0.3777
- auroc: 0.75 - ETA: 52s - loss: 0.3777 - auroc: 0.75 - ETA: 52s - loss: 0.3777 - auroc: 0.75 - ET
```

EIII. 020 1000. 0.0777 uu100. 0.70 HIII. 020 1000. 0.0777 A: 51s - loss: 0.3777 - auroc: 0.75 - ETA: 51s - loss: 0.3776 - auroc: 0.75 - ETA: 51s - loss: 0.3 775 - auroc: 0.75 - ETA: 50s - loss: 0.3776 - auroc: 0.75 - ETA: 50s - loss: 0.3777 - auroc: 0.75 - ETA: 50s - loss: 0.3777 - auroc: 0.75 - ETA: 49s - loss: 0.3777 - auroc: 0.75 - ETA: 49s - loss: 0.3777 - auroc: 0.75 - ETA: 49s - loss: 0.3777 - auroc: 0.75 - ETA: 48s - loss: 0.3778 - auroc: 0. 75 - ETA: 48s - loss: 0.3778 - auroc: 0.75 - ETA: 48s - loss: 0.3778 - auroc: 0.75 - ETA: 47s - lo ss: 0.3779 - auroc: 0.75 - ETA: 47s - loss: 0.3778 - auroc: 0.75 - ETA: 47s - loss: 0.3777 - auroc : 0.75 - ETA: 46s - loss: 0.3777 - auroc: 0.75 - ETA: 46s - loss: 0.3778 - auroc: 0.75 - ETA: 46s - loss: 0.3778 - auroc: 0.75 - ETA: 45s - loss: 0.3778 - auroc: 0.75 - ETA: 45s - loss: 0.3777 - a uroc: 0.75 - ETA: 45s - loss: 0.3775 - auroc: 0.75 - ETA: 44s - loss: 0.3776 - auroc: 0.75 - ETA: 44s - loss: 0.3776 - auroc: 0.75 - ETA: 44s - loss: 0.3777 - auroc: 0.75 - ETA: 43s - loss: 0.3777 - auroc: 0.75 - ETA: 43s - loss: 0.3777 - auroc: 0.75 - ETA: 43s - loss: 0.3777 - auroc: 0.75 - ET A: 42s - loss: 0.3777 - auroc: 0.75 - ETA: 42s - loss: 0.3777 - auroc: 0.75 - ETA: 42s - loss: 0.3 778 - auroc: 0.75 - ETA: 41s - loss: 0.3778 - auroc: 0.75 - ETA: 41s - loss: 0.3778 - auroc: 0.75 - ETA: 41s - loss: 0.3779 - auroc: 0.75 - ETA: 40s - loss: 0.3779 - auroc: 0.75 - ETA: 40s - loss: 0.3778 - auroc: 0.75 - ETA: 40s - loss: 0.3778 - auroc: 0.75 - ETA: 39s - loss: 0.3779 - auroc: 0. 75 - ETA: 39s - loss: 0.3778 - auroc: 0.75 - ETA: 39s - loss: 0.3778 - auroc: 0.75 - ETA: 38s - lo ss: 0.3778 - auroc: 0.75 - ETA: 38s - loss: 0.3779 - auroc: 0.75 - ETA: 38s - loss: 0.3778 - auroc : 0.75 - ETA: 37s - loss: 0.3777 - auroc: 0.75 - ETA: 37s - loss: 0.3777 - auroc: 0.75 - ETA: 37s - loss: 0.3775 - auroc: 0.75 - ETA: 36s - loss: 0.3775 - auroc: 0.75 - ETA: 36s - loss: 0.3775 - a uroc: 0.75 - ETA: 36s - loss: 0.3774 - auroc: 0.75 - ETA: 35s - loss: 0.3774 - auroc: 0.75 - ETA: 35s - loss: 0.3772 - auroc: 0.75 - ETA: 35s - loss: 0.3771 - auroc: 0.75 - ETA: 34s - loss: 0.3771 - auroc: 0.75 - ETA: 34s - loss: 0.3770 - auroc: 0.75 - ETA: 34s - loss: 0.3770 - auroc: 0.75 - ET A: 33s - loss: 0.3769 - auroc: 0.75 - ETA: 33s - loss: 0.3769 - auroc: 0.75 - ETA: 33s - loss: 0.3 767 - auroc: 0.75 - ETA: 32s - loss: 0.3768 - auroc: 0.75 - ETA: 32s - loss: 0.3768 - auroc: 0.75 - ETA: 32s - loss: 0.3767 - auroc: 0.75 - ETA: 31s - loss: 0.3767 - auroc: 0.75 - ETA: 31s - loss: 0.3767 - auroc: 0.75 - ETA: 31s - loss: 0.3766 - auroc: 0.75 - ETA: 30s - loss: 0.3767 - auroc: 0. 75 - ETA: 30s - loss: 0.3766 - auroc: 0.75 - ETA: 30s - loss: 0.3768 - auroc: 0.75 - ETA: 29s - lo ss: 0.3768 - auroc: 0.75 - ETA: 29s - loss: 0.3769 - auroc: 0.75 - ETA: 29s - loss: 0.3769 - auroc : 0.75 - ETA: 28s - loss: 0.3768 - auroc: 0.75 - ETA: 28s - loss: 0.3768 - auroc: 0.75 - ETA: 28s - loss: 0.3769 - auroc: 0.75 - ETA: 27s - loss: 0.3769 - auroc: 0.75 - ETA: 27s - loss: 0.3770 - a uroc: 0.75 - ETA: 27s - loss: 0.3771 - auroc: 0.75 - ETA: 26s - loss: 0.3770 - auroc: 0.75 - ETA: 26s - loss: 0.3770 - auroc: 0.75 - ETA: 26s - loss: 0.3770 - auroc: 0.75 - ETA: 26s - loss: 0.3769 - auroc: 0.75 - ETA: 25s - loss: 0.3768 - auroc: 0.75 - ETA: 25s - loss: 0.3766 - auroc: 0.75 - ET A: 25s - loss: 0.3766 - auroc: 0.75 - ETA: 24s - loss: 0.3766 - auroc: 0.75 - ETA: 24s - loss: 0.3 766 - auroc: 0.75 - ETA: 24s - loss: 0.3765 - auroc: 0.75 - ETA: 23s - loss: 0.3764 - auroc: 0.75 - ETA: 23s - loss: 0.3763 - auroc: 0.75 - ETA: 23s - loss: 0.3762 - auroc: 0.75 - ETA: 22s - loss: 0.3764 - auroc: 0.75 - ETA: 22s - loss: 0.3763 - auroc: 0.75 - ETA: 22s - loss: 0.3762 - auroc: 0. 75 - ETA: 21s - loss: 0.3762 - auroc: 0.75 - ETA: 21s - loss: 0.3761 - auroc: 0.75 - ETA: 21s - lo ss: 0.3762 - auroc: 0.75 - ETA: 20s - loss: 0.3762 - auroc: 0.75 - ETA: 20s - loss: 0.3762 - auroc : 0.75 - ETA: 20s - loss: 0.3761 - auroc: 0.75 - ETA: 19s - loss: 0.3760 - auroc: 0.75 - ETA: 19s - loss: 0.3759 - auroc: 0.75 - ETA: 19s - loss: 0.3760 - auroc: 0.75 - ETA: 18s - loss: 0.3760 - a uroc: 0.75 - ETA: 18s - loss: 0.3759 - auroc: 0.75 - ETA: 18s - loss: 0.3761 - auroc: 0.75 - ETA: 17s - loss: 0.3761 - auroc: 0.75 - ETA: 17s - loss: 0.3761 - auroc: 0.75 - ETA: 17s - loss: 0.3761 - auroc: 0.75 - ETA: 16s - loss: 0.3762 - auroc: 0.75 - ETA: 16s - loss: 0.3762 - auroc: 0.75 - ET A: 16s - loss: 0.3762 - auroc: 0.75 - ETA: 15s - loss: 0.3762 - auroc: 0.75 - ETA: 15s - loss: 0.3 762 - auroc: 0.75 - ETA: 15s - loss: 0.3763 - auroc: 0.75 - ETA: 14s - loss: 0.3763 - auroc: 0.75 - ETA: 14s - loss: 0.3763 - auroc: 0.75 - ETA: 14s - loss: 0.3763 - auroc: 0.75 - ETA: 13s - loss: 0.3763 - auroc: 0.75 - ETA: 13s - loss: 0.3763 - auroc: 0.75 - ETA: 13s - loss: 0.3762 - auroc: 0. 75 - ETA: 12s - loss: 0.3763 - auroc: 0.75 - ETA: 12s - loss: 0.3763 - auroc: 0.75 - ETA: 12s - lo ss: 0.3763 - auroc: 0.75 - ETA: 11s - loss: 0.3763 - auroc: 0.75 - ETA: 11s - loss: 0.3763 - auroc : 0.75 - ETA: 11s - loss: 0.3763 - auroc: 0.75 - ETA: 10s - loss: 0.3762 - auroc: 0.75 - ETA: 10s - loss: 0.3761 - auroc: 0.75 - ETA: 10s - loss: 0.3761 - auroc: 0.75 - ETA: 9s - loss: 0.3761 - au roc: 0.7585 - ETA: 9s - loss: 0.3761 - auroc: 0.758 - ETA: 9s - loss: 0.3760 - auroc: 0.758 - ETA: 8s - loss: 0.3761 - auroc: 0.758 - ETA: 8s - loss: 0.3761 - auroc: 0.758 - ETA: 8s - loss: 0.3760 - auroc: 0.758 - ETA: 7s - loss: 0.3759 - auroc: 0.758576473/76473 - auroc: 0.758 - ETA: 6s - loss: 0.3760 - auroc: 0.758 - ETA: 6s - loss: 0.3761 - auroc: 0.758 - E TA: 6s - loss: 0.3761 - auroc: 0.758 - ETA: 5s - loss: 0.3761 - auroc: 0.758 - ETA: 5s - loss: 0.3 761 - auroc: 0.758 - ETA: 5s - loss: 0.3761 - auroc: 0.758 - ETA: 4s - loss: 0.3760 - auroc: 0.758 - ETA: 4s - loss: 0.3759 - auroc: 0.758 - ETA: 4s - loss: 0.3760 - auroc: 0.758 - ETA: 3s - loss: 0.3760 - auroc: 0.758 - ETA: 3s - loss: 0.3760 - auroc: 0.758 - ETA: 3s - loss: 0.3760 - auroc: 0. 758 - ETA: 2s - loss: 0.3760 - auroc: 0.758 - ETA: 2s - loss: 0.3760 - auroc: 0.758 - ETA: 2s - lo ss: 0.3759 - auroc: 0.758 - ETA: 1s - loss: 0.3759 - auroc: 0.758 - ETA: 1s - loss: 0.3759 - auroc : 0.758 - ETA: 1s - loss: 0.3758 - auroc: 0.759 - ETA: 0s - loss: 0.3758 - auroc: 0.759 - ETA: 0s - loss: 0.3759 - auroc: 0.759 - ETA: 0s - loss: 0.3760 - auroc: 0.758 - 449s 6ms/step - loss: 0.37 60 - auroc: 0.7589 - val loss: 0.3779 - val auroc: 0.7626

Epoch 00001: val\_auroc improved from -inf to 0.76259, saving model to model\_3.h5 Epoch 2/20

12416/76473 [===>......] - ETA: 6:22 - loss: 0.3598 - auroc: 0.833 - ETA: 6:28 - loss: 0.4043 - auroc: 0.801 - ETA: 6:23 - loss: 0.3879 - auroc: 0.814 - ETA: 6:20 - loss: 0.3739 - auroc: 0.812 - ETA: 6:17 - loss: 0.3683 - auroc: 0.800 - ETA: 6:17 - loss: 0.3793 - auroc: 0.801 - ETA: 6:19 - loss: 0.3883 - auroc: 0.788 - ETA: 6:20 - loss: 0.3753 - auroc: 0.803 - ETA: 6:19 - loss: 0.3649 - auroc: 0.802 - ETA: 6:19 - loss: 0.3543 - auroc: 0.780 - ETA: 6:18 - loss: 0.3669 - auroc: 0.779 - ETA: 6:18 - loss: 0.3615 - auroc: 0.779 - ETA: 6:19 - loss: 0.3643 - auroc: 0.769 - ETA: 6:20 - loss: 0.3624 - auroc: 0.774 - ETA: 6:20 - loss: 0.3658 - auroc: 0.774 - ETA

```
au100. 0.//0
                           EIA. V.ZV
                                       TO33. 0.70TT
                                                     au100. 0.700
                                                                     DIA. V.ZI
                                                                                 TO33. 0.3330
uroc: 0.786 - ETA: 6:20 - loss: 0.3536 - auroc: 0.791 - ETA: 6:20 - loss: 0.3545 - auroc: 0.779 -
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
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ETA: 5:55 - loss: 0.3643 - auroc: 0.772 - ETA: 5:55 - loss: 0.3628 - auroc: 0.772 - ETA: 5:54 - lo
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ss: 0.3663 - auroc: 0.770 - ETA: 5:46 - loss: 0.3677 - auroc: 0.769 - ETA: 5:46 - loss: 0.3674 - a
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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ETA: 5:27 - loss: 0.3686 - auroc: 0.772 - ETA: 5:26 - loss: 0.3680 - auroc: 0.772 - ETA: 5:26 - lo
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33. 0.3032

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                                                      -----
                           DM4 . 0.00
                                                                    mma.
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ss: 0.3739 - auroc: 0.76 - ETA: 39s - loss: 0.3739 - auroc: 0.76 - ETA: 39s - loss: 0.3740 - auroc
: 0.76 - ETA: 39s - loss: 0.3741 - auroc: 0.76 - ETA: 38s - loss: 0.3740 - auroc: 0.76 - ETA: 38s
- loss: 0.3739 - auroc: 0.76 - ETA: 38s - loss: 0.3738 - auroc: 0.76 - ETA: 37s - loss: 0.3738 - a
uroc: 0.76 - ETA: 37s - loss: 0.3738 - auroc: 0.76 - ETA: 37s - loss: 0.3738 - auroc: 0.76 - ETA:
36s - loss: 0.3737 - auroc: 0.76 - ETA: 36s - loss: 0.3737 - auroc: 0.76 - ETA: 36s - loss: 0.3738
- auroc: 0.76 - ETA: 35s - loss: 0.3737 - auroc: 0.76 - ETA: 35s - loss: 0.3736 - auroc: 0.76 - ET
A: 35s - loss: 0.3736 - auroc: 0.76 - ETA: 34s - loss: 0.3736 - auroc: 0.76 - ETA: 34s - loss: 0.3
```

736 - auroc: 0.76 - ETA: 34s - loss: 0.3735 - auroc: 0.76 - ETA: 33s - loss: 0.3736 - auroc: 0.76 - ETA: 33s - loss: 0.3737 - auroc: 0.76 - ETA: 33s - loss: 0.3737 - auroc: 0.76 - ETA: 32s - loss: 0.3738 - auroc: 0.76 - ETA: 32s - loss: 0.3739 - auroc: 0.76 - ETA: 32s - loss: 0.3737 - auroc: 0. 76 - ETA: 31s - loss: 0.3737 - auroc: 0.76 - ETA: 31s - loss: 0.3737 - auroc: 0.76 - ETA: 31s - lo ss: 0.3736 - auroc: 0.76 - ETA: 30s - loss: 0.3737 - auroc: 0.76 - ETA: 30s - loss: 0.3737 - auroc : 0.76 - ETA: 30s - loss: 0.3737 - auroc: 0.76 - ETA: 29s - loss: 0.3737 - auroc: 0.76 - ETA: 29s - loss: 0.3738 - auroc: 0.76 - ETA: 29s - loss: 0.3737 - auroc: 0.76 - ETA: 28s - loss: 0.3736 - a uroc: 0.76 - ETA: 28s - loss: 0.3736 - auroc: 0.76 - ETA: 28s - loss: 0.3736 - auroc: 0.76 - ETA: 27s - loss: 0.3736 - auroc: 0.76 - ETA: 27s - loss: 0.3735 - auroc: 0.76 - ETA: 27s - loss: 0.3735 - auroc: 0.76 - ETA: 26s - loss: 0.3734 - auroc: 0.76 - ETA: 26s - loss: 0.3734 - auroc: 0.76 - ET A: 26s - loss: 0.3733 - auroc: 0.76 - ETA: 25s - loss: 0.3733 - auroc: 0.76 - ETA: 25s - loss: 0.3 734 - auroc: 0.76 - ETA: 25s - loss: 0.3735 - auroc: 0.76 - ETA: 24s - loss: 0.3734 - auroc: 0.76 - ETA: 24s - loss: 0.3734 - auroc: 0.76 - ETA: 24s - loss: 0.3733 - auroc: 0.76 - ETA: 23s - loss: 0.3734 - auroc: 0.76 - ETA: 23s - loss: 0.3734 - auroc: 0.76 - ETA: 23s - loss: 0.3735 - auroc: 0. 76 - ETA: 22s - loss: 0.3735 - auroc: 0.76 - ETA: 22s - loss: 0.3736 - auroc: 0.76 - ETA: 22s - lo ss: 0.3736 - auroc: 0.76 - ETA: 21s - loss: 0.3735 - auroc: 0.76 - ETA: 21s - loss: 0.3735 - auroc : 0.76 - ETA: 21s - loss: 0.3736 - auroc: 0.76 - ETA: 20s - loss: 0.3736 - auroc: 0.76 - ETA: 20s - loss: 0.3737 - auroc: 0.76 - ETA: 20s - loss: 0.3738 - auroc: 0.76 - ETA: 19s - loss: 0.3738 - a uroc: 0.76 - ETA: 19s - loss: 0.3738 - auroc: 0.76 - ETA: 19s - loss: 0.3738 - auroc: 0.76 - ETA: 18s - loss: 0.3738 - auroc: 0.76 - ETA: 18s - loss: 0.3739 - auroc: 0.76 - ETA: 18s - loss: 0.3740 - auroc: 0.76 - ETA: 17s - loss: 0.3739 - auroc: 0.76 - ETA: 17s - loss: 0.3738 - auroc: 0.76 - ET A: 17s - loss: 0.3738 - auroc: 0.76 - ETA: 16s - loss: 0.3738 - auroc: 0.76 - ETA: 16s - loss: 0.3 737 - auroc: 0.76 - ETA: 16s - loss: 0.3737 - auroc: 0.76 - ETA: 15s - loss: 0.3737 - auroc: 0.76 - ETA: 15s - loss: 0.3737 - auroc: 0.76 - ETA: 15s - loss: 0.3737 - auroc: 0.76 - ETA: 14s - loss: 0.3737 - auroc: 0.76 - ETA: 14s - loss: 0.3736 - auroc: 0.76 - ETA: 14s - loss: 0.3735 - auroc: 0. 76 - ETA: 13s - loss: 0.3735 - auroc: 0.76 - ETA: 13s - loss: 0.3734 - auroc: 0.76 - ETA: 13s - lo ss: 0.3733 - auroc: 0.76 - ETA: 12s - loss: 0.3734 - auroc: 0.76 - ETA: 12s - loss: 0.3733 - auroc : 0.76 - ETA: 12s - loss: 0.3734 - auroc: 0.76 - ETA: 11s - loss: 0.3734 - auroc: 0.76 - ETA: 11s - loss: 0.3733 - auroc: 0.76 - ETA: 11s - loss: 0.3733 - auroc: 0.76 - ETA: 10s - loss: 0.3734 - a uroc: 0.76 - ETA: 10s - loss: 0.3734 - auroc: 0.76 - ETA: 10s - loss: 0.3734 - auroc: 0.76 - ETA: 9s - loss: 0.3734 - auroc: 0.7634 - ETA: 9s - loss: 0.3733 - auroc: 0.763 - ETA: 9s - loss: 0.3733 - auroc: 0.763 - ETA: 8s - loss: 0.3733 - auroc: 0.763 - ETA: 8s - loss: 0.3733 - auroc: 0.763 - E TA: 8s - loss: 0.3734 - auroc: 0.763 - ETA: 7s - loss: 0.3733 - auroc: 0.763776473/76473 - auroc: 0.763 - ETA: 6s - loss: 0.3731 - auroc: 0.763 - ETA: 6s - loss: 0.3731 - auroc: 0.763 - E TA: 5s - loss: 0.3732 - auroc: 0.763 - ETA: 5s - loss: 0.3732 - auroc: 0.763 - ETA: 5s - loss: 0.3 732 - auroc: 0.763 - ETA: 4s - loss: 0.3732 - auroc: 0.763 - ETA: 4s - loss: 0.3731 - auroc: 0.763 - ETA: 4s - loss: 0.3733 - auroc: 0.763 - ETA: 3s - loss: 0.3733 - auroc: 0.763 - ETA: 3s - loss: 0.3734 - auroc: 0.763 - ETA: 3s - loss: 0.3734 - auroc: 0.763 - ETA: 2s - loss: 0.3734 - auroc: 0. 763 - ETA: 2s - loss: 0.3735 - auroc: 0.763 - ETA: 2s - loss: 0.3734 - auroc: 0.763 - ETA: 1s - lo ss: 0.3733 - auroc: 0.763 - ETA: 1s - loss: 0.3733 - auroc: 0.763 - ETA: 1s - loss: 0.3732 - auroc : 0.763 - ETA: 0s - loss: 0.3731 - auroc: 0.763 - ETA: 0s - loss: 0.3730 - auroc: 0.763 - ETA: 0s loss: 0.3730 - auroc: 0.763 - 455s 6ms/step - loss: 0.3731 - auroc: 0.7634 - val loss: 0.3740 val auroc: 0.7604

Epoch 00002: val\_auroc did not improve from 0.76259

12416/76473 [===>.....] - ETA: 5:59 - loss: 0.2133 - auroc: 0.974 - ETA: 6:10 - loss: 0.3116 - auroc: 0.858 - ETA: 6:20 - loss: 0.3009 - auroc: 0.798 - ETA: 6:26 - loss: 0.3292 - auroc: 0.808 - ETA: 6:27 - loss: 0.3175 - auroc: 0.821 - ETA: 6:27 - loss: 0.3269 - auroc: 0.822 - ETA: 6:25 - loss: 0.3330 - auroc: 0.822 - ETA: 6:24 - loss: 0.3200 - auroc: 0.820 - ETA: 6:22 loss: 0.3099 - auroc: 0.825 - ETA: 6:21 - loss: 0.3192 - auroc: 0.820 - ETA: 6:19 - loss: 0.3300 auroc: 0.798 - ETA: 6:18 - loss: 0.3239 - auroc: 0.801 - ETA: 6:19 - loss: 0.3290 - auroc: 0.783 -ETA: 6:18 - loss: 0.3325 - auroc: 0.791 - ETA: 6:18 - loss: 0.3319 - auroc: 0.787 - ETA: 6:18 - lo ss: 0.3352 - auroc: 0.787 - ETA: 6:17 - loss: 0.3312 - auroc: 0.791 - ETA: 6:19 - loss: 0.3340 - a uroc: 0.789 - ETA: 6:17 - loss: 0.3393 - auroc: 0.789 - ETA: 6:16 - loss: 0.3416 - auroc: 0.788 -ETA: 6:16 - loss: 0.3427 - auroc: 0.787 - ETA: 6:16 - loss: 0.3455 - auroc: 0.783 - ETA: 6:16 - lo ss: 0.3490 - auroc: 0.780 - ETA: 6:15 - loss: 0.3549 - auroc: 0.773 - ETA: 6:15 - loss: 0.3549 - a uroc: 0.777 - ETA: 6:15 - loss: 0.3515 - auroc: 0.782 - ETA: 6:14 - loss: 0.3514 - auroc: 0.785 -ETA: 6:14 - loss: 0.3526 - auroc: 0.782 - ETA: 6:14 - loss: 0.3504 - auroc: 0.777 - ETA: 6:14 - lo ss: 0.3527 - auroc: 0.773 - ETA: 6:14 - loss: 0.3503 - auroc: 0.776 - ETA: 6:14 - loss: 0.3533 - a uroc: 0.772 - ETA: 6:14 - loss: 0.3522 - auroc: 0.775 - ETA: 6:13 - loss: 0.3569 - auroc: 0.772 -ETA: 6:13 - loss: 0.3598 - auroc: 0.772 - ETA: 6:13 - loss: 0.3593 - auroc: 0.771 - ETA: 6:12 - lo ss: 0.3586 - auroc: 0.772 - ETA: 6:12 - loss: 0.3577 - auroc: 0.771 - ETA: 6:12 - loss: 0.3597 - a uroc: 0.769 - ETA: 6:11 - loss: 0.3597 - auroc: 0.767 - ETA: 6:11 - loss: 0.3598 - auroc: 0.765 -ETA: 6:11 - loss: 0.3574 - auroc: 0.765 - ETA: 6:10 - loss: 0.3594 - auroc: 0.762 - ETA: 6:10 - lo ss: 0.3576 - auroc: 0.762 - ETA: 6:10 - loss: 0.3568 - auroc: 0.758 - ETA: 6:10 - loss: 0.3580 - a uroc: 0.758 - ETA: 6:09 - loss: 0.3573 - auroc: 0.758 - ETA: 6:09 - loss: 0.3560 - auroc: 0.757 -ETA: 6:09 - loss: 0.3589 - auroc: 0.758 - ETA: 6:09 - loss: 0.3575 - auroc: 0.760 - ETA: 6:08 - lo ss: 0.3607 - auroc: 0.759 - ETA: 6:08 - loss: 0.3602 - auroc: 0.758 - ETA: 6:08 - loss: 0.3627 - a uroc: 0.756 - ETA: 6:08 - loss: 0.3616 - auroc: 0.759 - ETA: 6:08 - loss: 0.3609 - auroc: 0.762 -ETA: 6:08 - loss: 0.3612 - auroc: 0.763 - ETA: 6:08 - loss: 0.3608 - auroc: 0.761 - ETA: 6:07 - lo ss: 0.3583 - auroc: 0.763 - ETA: 6:07 - loss: 0.3608 - auroc: 0.762 - ETA: 6:07 - loss: 0.3606 - a uroc: 0.764 - ETA: 6:06 - loss: 0.3614 - auroc: 0.765 - ETA: 6:06 - loss: 0.3588 - auroc: 0.766 -ETA: 6:07 - loss: 0.3583 - auroc: 0.765 - ETA: 6:08 - loss: 0.3586 - auroc: 0.766 - ETA: 6:08 - lo ss: 0.3574 - auroc: 0.765 - ETA: 6:08 - loss: 0.3594 - auroc: 0.764 - ETA: 6:07 - loss: 0.3586 - a uroc: 0.763 - ETA: 6:07 - loss: 0.3573 - auroc: 0.764 - ETA: 6:06 - loss: 0.3567 - auroc: 0.762 -

```
ETA: 6:06 - loss: 0.3567 - auroc: 0.761 - ETA: 6:05 - loss: 0.3591 - auroc: 0.761 - ETA: 6:05 - lo
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
ss: 0.3639 - auroc: 0.761 - ETA: 5:53 - loss: 0.3644 - auroc: 0.760 - ETA: 5:52 - loss: 0.3637 - a
uroc: 0.761 - ETA: 5:52 - loss: 0.3633 - auroc: 0.762 - ETA: 5:52 - loss: 0.3633 - auroc: 0.762 -
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 -
ETA: 5:43 - loss: 0.3579 - auroc: 0.765 - ETA: 5:42 - loss: 0.3586 - auroc: 0.765 - ETA: 5:42 - lo
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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
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ETA: 5:40 - loss: 0.3603 - auroc: 0.764 - ETA: 5:40 - loss: 0.3604 - auroc: 0.764 - ETA: 5:40 - lo
ss: 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
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ETA: 5:39 - loss: 0.3592 - auroc: 0.765 - ETA: 5:38 - loss: 0.3593 - auroc: 0.766 - ETA: 5:38 - lo
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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
ss: 0.3623 - auroc: 0.766 - ETA: 5:28 - loss: 0.3626 - auroc: 0.766 - ETA: 5:28 - loss: 0.3625 - a
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: 0.766 - ETA: 5:27 - loss: 0.3629 - auroc: 0.765 - ETA: 5:26 - lo
ss: 0.3628 - auroc: 0.766 - ETA: 5:26 - loss: 0.3628 - auroc: 0.765 - ETA: 5:26 - loss: 0.3629 - a
uroc: 0.766 - ETA: 5:25 - loss: 0.3628 - auroc: 0.766 - ETA: 5:25 - loss: 0.3627 - auroc: 0.766 -
ETA: 5:25 - loss: 0.3633 - auroc: 0.766 - ETA: 5:24 - loss: 0.3635 - auroc: 0.765 - ETA: 5:24 - lo
ss: 0.3630 - auroc: 0.766 - ETA: 5:24 - loss: 0.3624 - auroc: 0.766 - ETA: 5:23 - loss: 0.3620 - a
uroc: 0.766 - ETA: 5:23 - loss: 0.3620 - auroc: 0.766 - ETA: 5:23 - loss: 0.3621 - auroc: 0.766 -
ETA: 5:22 - loss: 0.3620 - auroc: 0.766 - ETA: 5:22 - loss: 0.3625 - auroc: 0.766 - ETA: 5:22 - lo
ss: 0.3628 - auroc: 0.766 - ETA: 5:21 - loss: 0.3633 - auroc: 0.766 - ETA: 5:21 - loss: 0.3630 - a
uroc: 0.766 - ETA: 5:20 - loss: 0.3628 - auroc: 0.767 - ETA: 5:20 - loss: 0.3627 - auroc: 0.767 -
ETA: 5:20 - loss: 0.3628 - auroc: 0.767 - ETA: 5:20 - loss: 0.3630 - auroc: 0.767 - ETA: 5:19 - lo
ss: 0.3629 - auroc: 0.767 - ETA: 5:19 - loss: 0.3629 - auroc: 0.766 - ETA: 5:18 - loss: 0.3627 - a
uroc: 0.766 - ETA: 5:18 - loss: 0.3624 - auroc: 0.766 - ETA: 5:18 - loss: 0.3629 - auroc: 0.766 -
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uroc: 0.766 - ETA: 5:15 - loss: 0.3633 - auroc: 0.767 - ETA: 5:15 - loss: 0.3641 - auroc: 0.767 -
ETA: 5:15 - loss: 0.3644 - auroc: 0.767 - ETA: 5:14 - loss: 0.3647 - auroc: 0.766 - ETA: 5:14 - lo
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```

```
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ETA: 5:05 - loss: 0.3665 - auroc: 0.764 - ETA: 5:04 - loss: 0.3663 - auroc: 0.765 - ETA: 5:04 - lo
ss: 0.3660 - auroc: 0.765 - ETA: 5:04 - loss: 0.3659 - auroc: 0.766 - ETA: 5:03 - loss: 0.3656 - a
uroc: 0.766 - ETA: 5:03 - loss: 0.3657 - auroc: 0.766 - ETA: 5:03 - loss: 0.3662 - auroc: 0.766 -
ETA: 5:02 - loss: 0.3659 - auroc: 0.767 - ETA: 5:02 - loss: 0.3662 - auroc: 0.766 - ETA: 5:02 - lo
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ETA: 5:00 - loss: 0.3652 - auroc: 0.767 - ETA: 5:00 - loss: 0.3656 - auroc: 0.768 - ETA: 4:59 - lo
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ETA: 4:36 - loss: 0.3679 - auroc: 0.763 - ETA: 4:36 - loss: 0.3678 - auroc: 0.763 - ETA: 4:35 - lo
ss: 0.3681 - auroc: 0.763 - ETA: 4:35 - loss: 0.3681 - auroc: 0.763 - ETA: 4:35 - loss: 0.3678 - a
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ETA: 4:29 - loss: 0.3681 - auroc: 0.762 - ETA: 4:29 - loss: 0.3681 - auroc: 0.763 - ETA: 4:29 - lo
ss: 0.3682 - auroc: 0.763 - ETA: 4:28 - loss: 0.3682 - auroc: 0.763 - ETA: 4:28 - loss: 0.3683 - a
uroc: 0.762 - ETA: 4:28 - loss: 0.3683 - auroc: 0.763 - ETA: 4:27 - loss: 0.3686 - auroc: 0.763 -
ETA: 4:27 - loss: 0.3685 - auroc: 0.763 - ETA: 4:27 - loss: 0.3683 - auroc: 0.763 - ETA: 4:26 - lo
ss: 0.3684 - auroc: 0.763 - ETA: 4:26 - loss: 0.3687 - auroc: 0.763 - ETA: 4:26 - loss: 0.3688 - a
uroc: 0.763437248/76473 [=========>.....] - ETA: 4:25 - loss: 0.3688 - auroc: 0.763
- ETA: 4:25 - loss: 0.3687 - auroc: 0.763 - ETA: 4:24 - loss: 0.3688 - auroc: 0.763 - ETA: 4:24 -
loss: 0.3689 - auroc: 0.763 - ETA: 4:24 - loss: 0.3687 - auroc: 0.763 - ETA: 4:24 - loss: 0.3690 -
auroc: 0.763 - ETA: 4:23 - loss: 0.3691 - auroc: 0.763 - ETA: 4:23 - loss: 0.3692 - auroc: 0.763 -
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uroc: 0.764 - ETA: 4:19 - loss: 0.3690 - auroc: 0.764 - ETA: 4:19 - loss: 0.3692 - auroc: 0.764 -
ETA: 4:18 - loss: 0.3694 - auroc: 0.764 - ETA: 4:18 - loss: 0.3692 - auroc: 0.764 - ETA: 4:18 - lo
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ETA: 4:16 - loss: 0.3693 - auroc: 0.764 - ETA: 4:16 - loss: 0.3689 - auroc: 0.765 - ETA: 4:15 - lo
ss: 0.3689 - auroc: 0.765 - ETA: 4:15 - loss: 0.3688 - auroc: 0.765 - ETA: 4:15 - loss: 0.3690 - a
uroc: 0.765 - ETA: 4:14 - loss: 0.3694 - auroc: 0.765 - ETA: 4:14 - loss: 0.3693 - auroc: 0.765 -
ETA: 4:14 - loss: 0.3692 - auroc: 0.765 - ETA: 4:14 - loss: 0.3692 - auroc: 0.764 - ETA: 4:13 - lo
```

```
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uroc: 0.765 - ETA: 4:12 - loss: 0.3696 - auroc: 0.764 - ETA: 4:12 - loss: 0.3694 - auroc: 0.764 -
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ETA: 4:09 - loss: 0.3687 - auroc: 0.765 - ETA: 4:09 - loss: 0.3687 - auroc: 0.765 - ETA: 4:09 - lo
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uroc: 0.765 - ETA: 4:08 - loss: 0.3689 - auroc: 0.765 - ETA: 4:07 - loss: 0.3693 - auroc: 0.765 -
ETA: 4:07 - loss: 0.3692 - auroc: 0.765 - ETA: 4:07 - loss: 0.3692 - auroc: 0.765 - ETA: 4:06 - lo
ss: 0.3694 - auroc: 0.765 - ETA: 4:06 - loss: 0.3693 - auroc: 0.765 - ETA: 4:06 - loss: 0.3690 - a
uroc: 0.765 - ETA: 4:05 - loss: 0.3689 - auroc: 0.765 - ETA: 4:05 - loss: 0.3689 - auroc: 0.765 -
ETA: 4:05 - loss: 0.3688 - auroc: 0.765 - ETA: 4:05 - loss: 0.3690 - auroc: 0.765 - ETA: 4:04 - lo
ss: 0.3690 - auroc: 0.765 - ETA: 4:04 - loss: 0.3689 - auroc: 0.765 - ETA: 4:04 - loss: 0.3688 - a
uroc: 0.766 - ETA: 4:03 - loss: 0.3690 - auroc: 0.766 - ETA: 4:03 - loss: 0.3694 - auroc: 0.766 -
ETA: 4:03 - loss: 0.3695 - auroc: 0.765 - ETA: 4:02 - loss: 0.3694 - auroc: 0.766 - ETA: 4:02 - lo
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ETA: 3:58 - loss: 0.3699 - auroc: 0.766 - ETA: 3:57 - loss: 0.3696 - auroc: 0.766 - ETA: 3:57 - lo
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uroc: 0.766 - ETA: 3:56 - loss: 0.3691 - auroc: 0.766 - ETA: 3:56 - loss: 0.3693 - auroc: 0.766 -
ETA: 3:55 - loss: 0.3693 - auroc: 0.766 - ETA: 3:55 - loss: 0.3693 - auroc: 0.766 - ETA: 3:55 - lo
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uroc: 0.766 - ETA: 3:54 - loss: 0.3696 - auroc: 0.766 - ETA: 3:53 - loss: 0.3696 - auroc: 0.766 -
ETA: 3:53 - loss: 0.3697 - auroc: 0.766 - ETA: 3:53 - loss: 0.3696 - auroc: 0.766 - ETA: 3:52 - lo
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uroc: 0.765 - ETA: 3:49 - loss: 0.3704 - auroc: 0.765 - ETA: 3:49 - loss: 0.3705 - auroc: 0.765 -
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ETA: 3:37 - loss: 0.3702 - auroc: 0.765 - ETA: 3:36 - loss: 0.3700 - auroc: 0.765 - ETA: 3:36 - lo
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ETA: 3:30 - loss: 0.3696 - auroc: 0.765 - ETA: 3:29 - loss: 0.3695 - auroc: 0.765 - ETA: 3:29 - lo
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uroc: 0.766 - ETA: 3:28 - loss: 0.3694 - auroc: 0.765 - ETA: 3:28 - loss: 0.3692 - auroc: 0.766 -
ETA: 3:27 - loss: 0.3692 - auroc: 0.765 - ETA: 3:27 - loss: 0.3691 - auroc: 0.766 - ETA: 3:27 - lo
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uroc: 0.766 - ETA: 3:26 - loss: 0.3689 - auroc: 0.766 - ETA: 3:25 - loss: 0.3687 - auroc: 0.766 -
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3700 - auroc: 0.765 - ETA: 1:28 - loss: 0.3701 - auroc: 0.765 - ETA: 1:27 - loss: 0.3702 - auroc:
0.765 - ETA: 1:27 - loss: 0.3702 - auroc: 0.765 - ETA: 1:27 - loss: 0.3703 - auroc: 0.765 - ETA: 1
:26 - loss: 0.3704 - auroc: 0.765 - ETA: 1:26 - loss: 0.3705 - auroc: 0.765 - ETA: 1:26 - loss: 0.
3704 - auroc: 0.765 - ETA: 1:25 - loss: 0.3705 - auroc: 0.765 - ETA: 1:25 - loss: 0.3706 - auroc:
0.765 - ETA: 1:25 - loss: 0.3707 - auroc: 0.765 - ETA: 1:24 - loss: 0.3707 - auroc: 0.765 - ETA: 1
:24 - loss: 0.3706 - auroc: 0.765 - ETA: 1:24 - loss: 0.3707 - auroc: 0.765 - ETA: 1:23 - loss: 0.
3707 - auroc: 0.765 - ETA: 1:23 - loss: 0.3707 - auroc: 0.765 - ETA: 1:23 - loss: 0.3706 - auroc:
0.765 - ETA: 1:22 - loss: 0.3706 - auroc: 0.765 - ETA: 1:22 - loss: 0.3706 - auroc: 0.765 - ETA: 1
:22 - loss: 0.3707 - auroc: 0.765 - ETA: 1:21 - loss: 0.3706 - auroc: 0.765 - ETA: 1:21 - loss: 0.
3706 - auroc: 0.765 - ETA: 1:21 - loss: 0.3705 - auroc: 0.765 - ETA: 1:20 - loss: 0.3704 - auroc:
0.765 - ETA: 1:20 - loss: 0.3705 - auroc: 0.765 - ETA: 1:20 - loss: 0.3707 - auroc: 0.765 - ETA: 1
:19 - loss: 0.3708 - auroc: 0.765 - ETA: 1:19 - loss: 0.3709 - auroc: 0.765 - ETA: 1:19 - loss: 0.
3709 - auroc: 0.765 - ETA: 1:18 - loss: 0.3709 - auroc: 0.765 - ETA: 1:18 - loss: 0.3708 - auroc:
0.765 - ETA: 1:18 - loss: 0.3710 - auroc: 0.765 - ETA: 1:17 - loss: 0.3711 - auroc: 0.765 - ETA: 1
:17 - loss: 0.3711 - auroc: 0.764 - ETA: 1:17 - loss: 0.3711 - auroc: 0.764 - ETA: 1:16 - loss: 0.
3710 - auroc: 0.764 - ETA: 1:16 - loss: 0.3712 - auroc: 0.764 - ETA: 1:16 - loss: 0.3712 - auroc:
```

```
0.764 - ETA: 1:15 - loss: 0.3712 - auroc: 0.764 - ETA: 1:15 - loss: 0.3713 - auroc: 0.764 - ETA: 1
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: 1:13 - loss: 0.3713 - auroc: 0.765 - ETA: 1:13 - loss: 0.3713 - auroc: 0.765 - ETA: 1:12 - loss:
0.3713 - auroc: 0.765 - ETA: 1:12 - loss: 0.3714 - auroc: 0.765 - ETA: 1:12 - loss: 0.3715 - auroc
: 0.765 - ETA: 1:11 - loss: 0.3716 - auroc: 0.764 - ETA: 1:11 - loss: 0.3717 - auroc: 0.764 - ETA:
1:11 - loss: 0.3717 - auroc: 0.764 - ETA: 1:10 - loss: 0.3716 - auroc: 0.764 - ETA: 1:10 - loss: 0
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0.764 - ETA: 1:09 - loss: 0.3714 - auroc: 0.765 - ETA: 1:09 - loss: 0.3715 - auroc: 0.765 - ETA: 1
:08 - loss: 0.3716 - auroc: 0.765 - ETA: 1:08 - loss: 0.3716 - auroc: 0.764 - ETA: 1:08 - loss: 0.
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:06 - loss: 0.3712 - auroc: 0.765 - ETA: 1:06 - loss: 0.3711 - auroc: 0.764 - ETA: 1:05 - loss: 0.
3710 - auroc: 0.764 - ETA: 1:05 - loss: 0.3709 - auroc: 0.765 - ETA: 1:05 - loss: 0.3708 - auroc:
0.765 - ETA: 1:04 - loss: 0.3710 - auroc: 0.764 - ETA: 1:04 - loss: 0.3711 - auroc: 0.764 - ETA: 1
:04 - loss: 0.3712 - auroc: 0.764 - ETA: 1:03 - loss: 0.3710 - auroc: 0.764 - ETA: 1:03 - loss: 0.
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0.765 - ETA: 1:02 - loss: 0.3709 - auroc: 0.765 - ETA: 1:02 - loss: 0.3708 - auroc: 0.765 - ETA: 1
:01 - loss: 0.3707 - auroc: 0.764 - ETA: 1:01 - loss: 0.3708 - auroc: 0.764 - ETA: 1:01 - loss: 0.
3706 - auroc: 0.764 - ETA: 1:00 - loss: 0.3706 - auroc: 0.764 - ETA: 1:00 - loss: 0.3706 - auroc:
0.764 - ETA: 1:00 - loss: 0.3705 - auroc: 0.764 - ETA: 59s - loss: 0.3705 - auroc: 0.764 - ETA: 59
s - loss: 0.3705 - auroc: 0.76 - ETA: 59s - loss: 0.3704 - auroc: 0.76 - ETA: 58s - loss: 0.3704 -
auroc: 0.76 - ETA: 58s - loss: 0.3705 - auroc: 0.76 - ETA: 58s - loss: 0.3705 - auroc: 0.76 - ETA:
57s - loss: 0.3703 - auroc: 0.76 - ETA: 57s - loss: 0.3703 - auroc: 0.76 - ETA: 57s - loss: 0.3704
- auroc: 0.76 - ETA: 56s - loss: 0.3702 - auroc: 0.76 - ETA: 56s - loss: 0.3703 - auroc: 0.76 - ET
A: 56s - loss: 0.3704 - auroc: 0.76 - ETA: 55s - loss: 0.3704 - auroc: 0.76 - ETA: 55s - loss: 0.3
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- ETA: 54s - loss: 0.3704 - auroc: 0.76 - ETA: 54s - loss: 0.3705 - auroc: 0.76 - ETA: 53s - loss:
0.3704 - auroc: 0.76 - ETA: 53s - loss: 0.3705 - auroc: 0.76 - ETA: 53s - loss: 0.3705 - auroc: 0.
76 - ETA: 52s - loss: 0.3704 - auroc: 0.76 - ETA: 52s - loss: 0.3703 - auroc: 0.76 - ETA: 52s - lo
ss: 0.3702 - auroc: 0.76 - ETA: 51s - loss: 0.3702 - auroc: 0.76 - ETA: 51s - loss: 0.3703 - auroc
: 0.76 - ETA: 51s - loss: 0.3702 - auroc: 0.76 - ETA: 50s - loss: 0.3701 - auroc: 0.76 - ETA: 50s
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uroc: 0.76 - ETA: 49s - loss: 0.3701 - auroc: 0.76 - ETA: 49s - loss: 0.3700 - auroc: 0.76 - ETA:
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- auroc: 0.76 - ETA: 47s - loss: 0.3698 - auroc: 0.76 - ETA: 47s - loss: 0.3697 - auroc: 0.76 - ET
A: 47s - loss: 0.3696 - auroc: 0.76 - ETA: 46s - loss: 0.3696 - auroc: 0.76 - ETA: 46s - loss: 0.3
696 - auroc: 0.76 - ETA: 46s - loss: 0.3697 - auroc: 0.76 - ETA: 46s - loss: 0.3698 - auroc: 0.76
- ETA: 45s - loss: 0.3698 - auroc: 0.76 - ETA: 45s - loss: 0.3698 - auroc: 0.76 - ETA: 45s - loss:
0.3698 - auroc: 0.76 - ETA: 44s - loss: 0.3698 - auroc: 0.76 - ETA: 44s - loss: 0.3699 - auroc: 0.
76 - ETA: 44s - loss: 0.3698 - auroc: 0.76 - ETA: 43s - loss: 0.3699 - auroc: 0.76 - ETA: 43s - lo
ss: 0.3699 - auroc: 0.76 - ETA: 43s - loss: 0.3699 - auroc: 0.76 - ETA: 42s - loss: 0.3699 - auroc
: 0.76 - ETA: 42s - loss: 0.3699 - auroc: 0.76 - ETA: 42s - loss: 0.3699 - auroc: 0.76 - ETA: 41s
- loss: 0.3700 - auroc: 0.76 - ETA: 41s - loss: 0.3700 - auroc: 0.76 - ETA: 41s - loss: 0.3700 - a
uroc: 0.76 - ETA: 40s - loss: 0.3700 - auroc: 0.76 - ETA: 40s - loss: 0.3700 - auroc: 0.76 - ETA:
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- auroc: 0.76 - ETA: 39s - loss: 0.3699 - auroc: 0.76 - ETA: 38s - loss: 0.3700 - auroc: 0.76 - ET
A: 38s - loss: 0.3699 - auroc: 0.76 - ETA: 38s - loss: 0.3699 - auroc: 0.76 - ETA: 37s - loss: 0.3
699 - auroc: 0.76 - ETA: 37s - loss: 0.3698 - auroc: 0.76 - ETA: 37s - loss: 0.3698 - auroc: 0.76
- ETA: 36s - loss: 0.3699 - auroc: 0.76 - ETA: 36s - loss: 0.3701 - auroc: 0.76 - ETA: 36s - loss:
0.3702 - auroc: 0.76 - ETA: 35s - loss: 0.3702 - auroc: 0.76 - ETA: 35s - loss: 0.3702 - auroc: 0.
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ss: 0.3703 - auroc: 0.76 - ETA: 34s - loss: 0.3701 - auroc: 0.76 - ETA: 33s - loss: 0.3700 - auroc
: 0.76 - ETA: 33s - loss: 0.3701 - auroc: 0.76 - ETA: 33s - loss: 0.3702 - auroc: 0.76 - ETA: 32s
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- auroc: 0.76 - ETA: 30s - loss: 0.3703 - auroc: 0.76 - ETA: 29s - loss: 0.3702 - auroc: 0.76 - ET
A: 29s - loss: 0.3703 - auroc: 0.76 - ETA: 29s - loss: 0.3704 - auroc: 0.76 - ETA: 28s - loss: 0.3
703 - auroc: 0.76 - ETA: 28s - loss: 0.3703 - auroc: 0.76 - ETA: 28s - loss: 0.3703 - auroc: 0.76
- ETA: 27s - loss: 0.3703 - auroc: 0.76 - ETA: 27s - loss: 0.3703 - auroc: 0.76 - ETA: 27s - loss:
0.3703 - auroc: 0.76 - ETA: 26s - loss: 0.3702 - auroc: 0.76 - ETA: 26s - loss: 0.3703 - auroc: 0.
76 - ETA: 26s - loss: 0.3702 - auroc: 0.76 - ETA: 25s - loss: 0.3702 - auroc: 0.76 - ETA: 25s - lo
ss: 0.3703 - auroc: 0.76 - ETA: 25s - loss: 0.3702 - auroc: 0.76 - ETA: 24s - loss: 0.3703 - auroc
: 0.76 - ETA: 24s - loss: 0.3703 - auroc: 0.76 - ETA: 24s - loss: 0.3704 - auroc: 0.76 - ETA: 23s
- loss: 0.3705 - auroc: 0.76 - ETA: 23s - loss: 0.3706 - auroc: 0.76 - ETA: 23s - loss: 0.3706 - a
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- auroc: 0.76 - ETA: 21s - loss: 0.3704 - auroc: 0.76 - ETA: 20s - loss: 0.3705 - auroc: 0.76 - ET
A: 20s - loss: 0.3705 - auroc: 0.76 - ETA: 20s - loss: 0.3704 - auroc: 0.76 - ETA: 20s - loss: 0.3
703 - auroc: 0.76 - ETA: 19s - loss: 0.3703 - auroc: 0.76 - ETA: 19s - loss: 0.3704 - auroc: 0.76
- ETA: 19s - loss: 0.3703 - auroc: 0.76 - ETA: 18s - loss: 0.3702 - auroc: 0.76 - ETA: 18s - loss:
0.3701 - auroc: 0.76 - ETA: 18s - loss: 0.3701 - auroc: 0.76 - ETA: 17s - loss: 0.3701 - auroc: 0.
76 - ETA: 17s - loss: 0.3701 - auroc: 0.76 - ETA: 17s - loss: 0.3702 - auroc: 0.76 - ETA: 16s - lo
ss: 0.3701 - auroc: 0.76 - ETA: 16s - loss: 0.3702 - auroc: 0.76 - ETA: 16s - loss: 0.3701 - auroc
: 0.76 - ETA: 15s - loss: 0.3702 - auroc: 0.76 - ETA: 15s - loss: 0.3702 - auroc: 0.76 - ETA: 15s
```

- loss: 0.3704 - auroc: 0.76 - ETA: 14s - loss: 0.3705 - auroc: 0.76 - ETA: 14s - loss: 0.3705 - a uroc: 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 - ET A: 11s - loss: 0.3705 - auroc: 0.76 - ETA: 11s - loss: 0.3705 - auroc: 0.76 - ETA: 11s - loss: 0.3 705 - 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 - lo ss: 0.3707 - auroc: 0.765 - ETA: 7s - loss: 0.3708 - auroc: 0.765576473/76473 - auroc: 0.765 - ETA: 6s - loss: 0.3708 - auroc: 0.765 - ETA: 6s - loss: 0.3707 - auroc: 0.765 - E TA: 5s - loss: 0.3707 - auroc: 0.765 - ETA: 5s - loss: 0.3707 - auroc: 0.765 - ETA: 5s - loss: 0.3 707 - 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: 0.766 - 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 - lo ss: 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 - lo ss: 0.3759 - auroc: 0.764 - ETA: 6:25 - loss: 0.3659 - auroc: 0.775 - ETA: 6:23 - loss: 0.3576 - a uroc: 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 - lo ss: 0.3570 - auroc: 0.794 - ETA: 6:22 - loss: 0.3605 - auroc: 0.775 - ETA: 6:21 - loss: 0.3611 - a uroc: 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 - lo ss: 0.3638 - auroc: 0.774 - ETA: 6:18 - loss: 0.3611 - auroc: 0.773 - ETA: 6:18 - loss: 0.3592 - a uroc: 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 - lo ss: 0.3615 - auroc: 0.774 - ETA: 6:17 - loss: 0.3612 - auroc: 0.773 - ETA: 6:16 - loss: 0.3601 - a uroc: 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 - lo ss: 0.3575 - auroc: 0.776 - ETA: 6:14 - loss: 0.3558 - auroc: 0.776 - ETA: 6:13 - loss: 0.3533 - a uroc: 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 - lo ss: 0.3518 - auroc: 0.779 - ETA: 6:11 - loss: 0.3506 - auroc: 0.782 - ETA: 6:11 - loss: 0.3498 - a uroc: 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 - lo ss: 0.3527 - auroc: 0.783 - ETA: 6:09 - loss: 0.3540 - auroc: 0.782 - ETA: 6:09 - loss: 0.3519 - a uroc: 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 - lo ss: 0.3492 - auroc: 0.781 - ETA: 6:07 - loss: 0.3487 - auroc: 0.780 - ETA: 6:07 - loss: 0.3512 - a uroc: 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 - 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 766 - FTD. 2.59 - loss. 0 3690 - auroc. 0 766 - FTD. 2.59 - loss. 0 3692 - auroc. 0 766 - FTD. 2.
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```

D10. 4.

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0.766 - ETA: 1:01 - loss: 0.3701 - auroc: 0.766 - ETA: 1:01 - loss: 0.3702 - auroc: 0.766 - ETA: 1
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                    011700. 0 766
                                  ттл. 1.00 lace. 0 2704
                                                              21722 O 766 ETA 1.00
```

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: 0.76 - ETA: 48s - loss: 0.3708 - auroc: 0.76 - ETA: 48s - loss: 0.3707 - auroc: 0.76 - ETA: 47s
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- auroc: 0.76 - ETA: 45s - loss: 0.3707 - auroc: 0.76 - ETA: 44s - loss: 0.3708 - auroc: 0.76 - ET
A: 44s - loss: 0.3708 - auroc: 0.76 - ETA: 44s - loss: 0.3707 - auroc: 0.76 - ETA: 43s - loss: 0.3
707 - auroc: 0.76 - ETA: 43s - loss: 0.3708 - auroc: 0.76 - ETA: 43s - loss: 0.3707 - auroc: 0.76
- ETA: 42s - loss: 0.3707 - auroc: 0.76 - ETA: 42s - loss: 0.3706 - auroc: 0.76 - ETA: 42s - loss:
0.3706 - auroc: 0.76 - ETA: 41s - loss: 0.3706 - auroc: 0.76 - ETA: 41s - loss: 0.3706 - auroc: 0.
76 - ETA: 41s - loss: 0.3705 - auroc: 0.76 - ETA: 40s - loss: 0.3706 - auroc: 0.76 - ETA: 40s - lo
ss: 0.3707 - auroc: 0.76 - ETA: 40s - loss: 0.3706 - auroc: 0.76 - ETA: 39s - loss: 0.3706 - auroc
: 0.76 - ETA: 39s - loss: 0.3705 - auroc: 0.76 - ETA: 39s - loss: 0.3704 - auroc: 0.76 - ETA: 38s
- loss: 0.3704 - auroc: 0.76 - ETA: 38s - loss: 0.3705 - auroc: 0.76 - ETA: 38s - loss: 0.3706 - a
uroc: 0.76 - ETA: 37s - loss: 0.3705 - auroc: 0.76 - ETA: 37s - loss: 0.3705 - auroc: 0.76 - ETA:
37s - loss: 0.3704 - auroc: 0.76 - ETA: 36s - loss: 0.3704 - auroc: 0.76 - ETA: 36s - loss: 0.3704
- auroc: 0.76 - ETA: 36s - loss: 0.3705 - auroc: 0.76 - ETA: 35s - loss: 0.3705 - auroc: 0.76 - ET
A: 35s - loss: 0.3706 - auroc: 0.76 - ETA: 35s - loss: 0.3706 - auroc: 0.76 - ETA: 34s - loss: 0.3
707 - auroc: 0.76 - ETA: 34s - loss: 0.3707 - auroc: 0.76 - ETA: 34s - loss: 0.3707 - auroc: 0.76
- ETA: 33s - loss: 0.3707 - auroc: 0.76 - ETA: 33s - loss: 0.3708 - auroc: 0.76 - ETA: 33s - loss:
0.3708 - auroc: 0.76 - ETA: 32s - loss: 0.3708 - auroc: 0.76 - ETA: 32s - loss: 0.3708 - auroc: 0.
76 - ETA: 32s - loss: 0.3707 - auroc: 0.76 - ETA: 31s - loss: 0.3709 - auroc: 0.76 - ETA: 31s - lo
ss: 0.3709 - auroc: 0.76 - ETA: 30s - loss: 0.3710 - auroc: 0.76 - ETA: 30s - loss: 0.3710 - auroc
: 0.76 - ETA: 30s - loss: 0.3710 - auroc: 0.76 - ETA: 29s - loss: 0.3709 - auroc: 0.76 - ETA: 29s
- loss: 0.3709 - auroc: 0.76 - ETA: 29s - loss: 0.3709 - auroc: 0.76 - ETA: 28s - loss: 0.3708 - a
uroc: 0.76 - ETA: 28s - loss: 0.3708 - auroc: 0.76 - ETA: 28s - loss: 0.3708 - auroc: 0.76 - ETA:
27s - loss: 0.3707 - auroc: 0.76 - ETA: 27s - loss: 0.3708 - auroc: 0.76 - ETA: 27s - loss: 0.3707
- auroc: 0.76 - ETA: 26s - loss: 0.3708 - auroc: 0.76 - ETA: 26s - loss: 0.3707 - auroc: 0.76 - ET
A: 26s - loss: 0.3707 - auroc: 0.76 - ETA: 25s - loss: 0.3707 - auroc: 0.76 - ETA: 25s - loss: 0.3
709 - auroc: 0.76 - ETA: 25s - loss: 0.3707 - auroc: 0.76 - ETA: 24s - loss: 0.3708 - auroc: 0.76
- ETA: 24s - loss: 0.3706 - auroc: 0.76 - ETA: 24s - loss: 0.3706 - auroc: 0.76 - ETA: 23s - loss:
0.3706 - auroc: 0.76 - ETA: 23s - loss: 0.3707 - auroc: 0.76 - ETA: 23s - loss: 0.3706 - auroc: 0.
76 - ETA: 22s - loss: 0.3707 - auroc: 0.76 - ETA: 22s - loss: 0.3709 - auroc: 0.76 - ETA: 22s - lo
ss: 0.3707 - auroc: 0.76 - ETA: 21s - loss: 0.3707 - auroc: 0.76 - ETA: 21s - loss: 0.3707 - auroc
: 0.76 - ETA: 21s - loss: 0.3707 - auroc: 0.76 - ETA: 20s - loss: 0.3706 - auroc: 0.76 - ETA: 20s
- loss: 0.3705 - auroc: 0.76 - ETA: 20s - loss: 0.3705 - auroc: 0.76 - ETA: 19s - loss: 0.3704 - a
uroc: 0.76 - ETA: 19s - loss: 0.3705 - auroc: 0.76 - ETA: 19s - loss: 0.3705 - auroc: 0.76 - ETA:
18s - loss: 0.3705 - auroc: 0.76 - ETA: 18s - loss: 0.3706 - auroc: 0.76 - ETA: 18s - loss: 0.3705
- auroc: 0.76 - ETA: 17s - loss: 0.3705 - auroc: 0.76 - ETA: 17s - loss: 0.3704 - auroc: 0.76 - ET
A: 17s - loss: 0.3704 - auroc: 0.76 - ETA: 16s - loss: 0.3704 - auroc: 0.76 - ETA: 16s - loss: 0.3
704 - auroc: 0.76 - ETA: 16s - loss: 0.3704 - auroc: 0.76 - ETA: 15s - loss: 0.3704 - auroc: 0.76
- ETA: 15s - loss: 0.3704 - auroc: 0.76 - ETA: 15s - loss: 0.3703 - auroc: 0.76 - ETA: 14s - loss:
0.3703 - auroc: 0.76 - ETA: 14s - loss: 0.3704 - auroc: 0.76 - ETA: 14s - loss: 0.3704 - auroc: 0.
76 - ETA: 13s - loss: 0.3705 - auroc: 0.76 - ETA: 13s - loss: 0.3705 - auroc: 0.76 - ETA: 13s - lo
ss: 0.3704 - auroc: 0.76 - ETA: 12s - loss: 0.3705 - auroc: 0.76 - ETA: 12s - loss: 0.3704 - auroc
: 0.76 - ETA: 12s - loss: 0.3704 - auroc: 0.76 - ETA: 11s - loss: 0.3704 - auroc: 0.76 - ETA: 11s
- loss: 0.3705 - auroc: 0.76 - ETA: 11s - loss: 0.3705 - auroc: 0.76 - ETA: 10s - loss: 0.3705 - a
uroc: 0.76 - ETA: 10s - loss: 0.3705 - auroc: 0.76 - ETA: 10s - loss: 0.3705 - auroc: 0.76 - ETA:
9s - loss: 0.3705 - auroc: 0.7658 - ETA: 9s - loss: 0.3704 - auroc: 0.765 - ETA: 9s - loss: 0.3704
- auroc: 0.765 - ETA: 8s - loss: 0.3704 - auroc: 0.765 - ETA: 8s - loss: 0.3704 - auroc: 0.765 - E
TA: 8s - loss: 0.3703 - auroc: 0.765 - ETA: 7s - loss: 0.3703 - auroc: 0.765776473/76473
- auroc: 0.765 - ETA: 6s - loss: 0.3704 - auroc: 0.765 - ETA: 6s - loss: 0.3705 - auroc: 0.765 - E
TA: 6s - loss: 0.3706 - auroc: 0.765 - ETA: 5s - loss: 0.3707 - auroc: 0.765 - ETA: 5s - loss: 0.3
707 - auroc: 0.765 - ETA: 5s - loss: 0.3707 - auroc: 0.765 - ETA: 4s - loss: 0.3707 - auroc: 0.765
- ETA: 4s - loss: 0.3706 - auroc: 0.765 - ETA: 4s - loss: 0.3706 - auroc: 0.765 - ETA: 3s - loss:
0.3705 - auroc: 0.765 - ETA: 3s - loss: 0.3706 - auroc: 0.765 - ETA: 3s - loss: 0.3705 - auroc: 0.
765 - ETA: 2s - loss: 0.3705 - auroc: 0.765 - ETA: 2s - loss: 0.3705 - auroc: 0.765 - ETA: 1s - lo
ss: 0.3704 - auroc: 0.765 - ETA: 1s - loss: 0.3704 - auroc: 0.765 - ETA: 1s - loss: 0.3704 - auroc
: 0.765 - ETA: 0s - loss: 0.3704 - auroc: 0.765 - ETA: 0s - loss: 0.3703 - auroc: 0.765 - ETA: 0s
- loss: 0.3703 - auroc: 0.765 - 463s 6ms/step - loss: 0.3703 - auroc: 0.7657 - val loss: 0.3732 -
val auroc: 0.7597
```

```
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: 0.3644 - 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: 0.366/ - auroc: 0.//1 - ETA: 5:42 - loss: 0.3669 - auroc: 0.//0 - ETA: 5:42 - lo
ss: 0.3673 - auroc: 0.769 - ETA: 5:42 - loss: 0.3674 - auroc: 0.769 - ETA: 5:41 - loss: 0.3680 - a
uroc: 0.769 - ETA: 5:41 - loss: 0.3677 - auroc: 0.770 - ETA: 5:41 - loss: 0.3673 - auroc: 0.770 -
ETA: 5:40 - loss: 0.3676 - auroc: 0.770 - ETA: 5:40 - loss: 0.3682 - auroc: 0.769 - ETA: 5:40 - lo
ss: 0.3680 - auroc: 0.769 - ETA: 5:39 - loss: 0.3676 - auroc: 0.769 - ETA: 5:39 - loss: 0.3683 - a
uroc: 0.769 - ETA: 5:39 - loss: 0.3687 - auroc: 0.768 - ETA: 5:38 - loss: 0.3689 - auroc: 0.768 -
ETA: 5:38 - loss: 0.3696 - auroc: 0.768 - ETA: 5:37 - loss: 0.3689 - auroc: 0.767 - ETA: 5:37 - lo
ss: 0.3688 - auroc: 0.767 - ETA: 5:37 - loss: 0.3695 - auroc: 0.767 - ETA: 5:36 - loss: 0.3701 - a
uroc: 0.766 - ETA: 5:36 - loss: 0.3702 - auroc: 0.765624832/76473 [=======>......]
- ETA: 5:36 - loss: 0.3700 - auroc: 0.766 - ETA: 5:35 - loss: 0.3700 - auroc: 0.766 - ETA: 5:35 -
loss: 0.3691 - auroc: 0.767 - ETA: 5:34 - loss: 0.3694 - auroc: 0.766 - ETA: 5:34 - loss: 0.3699 -
auroc: 0.767 - ETA: 5:34 - loss: 0.3701 - auroc: 0.767 - ETA: 5:33 - loss: 0.3697 - auroc: 0.767 -
ETA: 5:33 - loss: 0.3701 - auroc: 0.767 - ETA: 5:32 - loss: 0.3700 - auroc: 0.767 - ETA: 5:32 - lo
ss: 0.3703 - auroc: 0.768 - ETA: 5:32 - loss: 0.3699 - auroc: 0.768 - ETA: 5:31 - loss: 0.3700 - a
uroc: 0.769 - ETA: 5:32 - loss: 0.3697 - auroc: 0.769 - ETA: 5:31 - loss: 0.3696 - auroc: 0.770 -
ETA: 5:31 - loss: 0.3700 - auroc: 0.770 - ETA: 5:30 - loss: 0.3695 - auroc: 0.770 - ETA: 5:30 - lo
ss: 0.3698 - auroc: 0.770 - ETA: 5:30 - loss: 0.3698 - auroc: 0.770 - ETA: 5:29 - loss: 0.3702 - a
uroc: 0.769 - ETA: 5:29 - loss: 0.3705 - auroc: 0.769 - ETA: 5:28 - loss: 0.3708 - auroc: 0.769 -
ETA: 5:28 - loss: 0.3701 - auroc: 0.769 - ETA: 5:27 - loss: 0.3698 - auroc: 0.769 - ETA: 5:27 - lo
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0.772 - ETA: 1:26 - loss: 0.3654 - auroc: 0.773 - ETA: 1:26 - loss: 0.3653 - auroc: 0.773 - ETA: 1
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0.772 - ETA: 1:21 - loss: 0.3662 - auroc: 0.772 - ETA: 1:21 - loss: 0.3663 - auroc: 0.772 - ETA: 1
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0.772 - ETA: 1:19 - loss: 0.3663 - auroc: 0.772 - ETA: 1:19 - loss: 0.3665 - auroc: 0.772 - ETA: 1
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:16 - loss: 0.3667 - auroc: 0.772 - ETA: 1:16 - loss: 0.3666 - auroc: 0.772 - ETA: 1:15 - loss: 0.
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: 1:14 - loss: 0.3667 - auroc: 0.772 - ETA: 1:14 - loss: 0.3667 - auroc: 0.772 - ETA: 1:13 - loss:
0.3666 - auroc: 0.772 - ETA: 1:13 - loss: 0.3668 - auroc: 0.772 - ETA: 1:13 - loss: 0.3668 - auroc
: 0.772 - ETA: 1:12 - loss: 0.3668 - auroc: 0.772 - ETA: 1:12 - loss: 0.3668 - auroc: 0.772 - ETA:
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0.772 - ETA: 1:10 - loss: 0.3672 - auroc: 0.772 - ETA: 1:09 - loss: 0.3673 - auroc: 0.772 - ETA: 1
:09 - loss: 0.3674 - auroc: 0.771 - ETA: 1:09 - loss: 0.3674 - auroc: 0.771 - ETA: 1:09 - loss: 0.
     - auroc: 0.771 - ETA: 1:08 - loss: 0.3674 - auroc: 0.771 - ETA: 1:08 - loss: 0.3673 - auroc:
0.771 - ETA: 1:08 - loss: 0.3673 - auroc: 0.771 - ETA: 1:07 - loss: 0.3674 - auroc: 0.772 - ETA: 1
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0.772 - ETA: 1:05 - loss: 0.3673 - auroc: 0.772 - ETA: 1:05 - loss: 0.3673 - auroc: 0.772 - ETA: 1
:05 - loss: 0.3673 - auroc: 0.772 - ETA: 1:04 - loss: 0.3671 - auroc: 0.772 - ETA: 1:04 - loss: 0.
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0.772 - ETA: 1:00 - loss: 0.3674 - auroc: 0.772 - ETA: 1:00 - loss: 0.3674 - auroc: 0.772 - ETA: 1
:00 - loss: 0.3674 - auroc: 0.772 - ETA: 59s - loss: 0.3674 - auroc: 0.772 - ETA: 59s - loss: 0.36
74 - auroc: 0.77 - ETA: 59s - loss: 0.3673 - auroc: 0.77 - ETA: 58s - loss: 0.3674 - auroc: 0.77 -
ETA: 58s - loss: 0.3674 - auroc: 0.77 - ETA: 58s - loss: 0.3674 - auroc: 0.77 - ETA: 57s - loss: 0
.3674 - auroc: 0.77 - ETA: 57s - loss: 0.3675 - auroc: 0.77 - ETA: 57s - loss: 0.3675 - auroc: 0.7
7 - ETA: 56s - loss: 0.3676 - auroc: 0.77 - ETA: 56s - loss: 0.3676 - auroc: 0.77 - ETA: 56s - los
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0.77 - ETA: 55s - loss: 0.3677 - auroc: 0.77 - ETA: 54s - loss: 0.3677 - auroc: 0.77 - ETA: 54s -
loss: 0.3679 - auroc: 0.77 - ETA: 54s - loss: 0.3679 - auroc: 0.77 - ETA: 53s - loss: 0.3678 - aur
oc: 0.77 - ETA: 53s - loss: 0.3679 - auroc: 0.77 - ETA: 53s - loss: 0.3680 - auroc: 0.77 - ETA: 52
s - loss: 0.3680 - auroc: 0.77 - ETA: 52s - loss: 0.3681 - auroc: 0.77 - ETA: 52s - loss: 0.3682 -
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- auroc: 0.77 - ETA: 50s - loss: 0.3681 - auroc: 0.77 - ETA: 49s - loss: 0.3681 - auroc: 0.77 - ET
A: 49s - loss: 0.3681 - auroc: 0.77 - ETA: 49s - loss: 0.3680 - auroc: 0.77 - ETA: 48s - loss: 0.3
681 - auroc: 0.77 - ETA: 48s - loss: 0.3681 - auroc: 0.77 - ETA: 48s - loss: 0.3681 - auroc: 0.77
- ETA: 47s - loss: 0.3680 - auroc: 0.77 - ETA: 47s - loss: 0.3680 - auroc: 0.77 - ETA: 47s - loss:
0.3679 - auroc: 0.77 - ETA: 46s - loss: 0.3681 - auroc: 0.77 - ETA: 46s - loss: 0.3680 - auroc: 0.
77 - ETA: 46s - loss: 0.3680 - auroc: 0.77 - ETA: 45s - loss: 0.3681 - auroc: 0.77 - ETA: 45s - lo
ss: 0.3679 - auroc: 0.77 - ETA: 45s - loss: 0.3679 - auroc: 0.77 - ETA: 44s - loss: 0.3678 - auroc
: 0.77 - ETA: 44s - loss: 0.3678 - auroc: 0.77 - ETA: 44s - loss: 0.3679 - auroc: 0.77 - ETA: 43s
- loss: 0.3678 - auroc: 0.77 - ETA: 43s - loss: 0.3678 - auroc: 0.77 - ETA: 43s - loss: 0.3680 - a
uroc: 0.77 - ETA: 42s - loss: 0.3679 - auroc: 0.77 - ETA: 42s - loss: 0.3680 - auroc: 0.77 - ETA:
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```

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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 - 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auroc: 0.769 - ETA: 7s - loss: 0.3677 - auroc: 0.769 - ETA: 7s - loss: 0.3678 - auroc: 0.769876473/76473 - 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

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
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uroc: 0.766 - ETA: 6:03 - loss: 0.3586 - auroc: 0.767 - ETA: 6:03 - loss: 0.3584 - auroc: 0.766 -
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```

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ETA: 4:41 - loss: 0.3601 - auroc: 0.772 - ETA: 4:41 - loss: 0.3599 - auroc: 0.772 - ETA: 4:40 - lo
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ETA: 4:28 - loss: 0.3620 - auroc: 0.772 - ETA: 4:27 - loss: 0.3620 - auroc: 0.773 - ETA: 4:27 - lo
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ETA: 4:25 - loss: 0.3623 - auroc: 0.773 - ETA: 4:25 - loss: 0.3624 - auroc: 0.773 - ETA: 4:25 - lo
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uroc: 0.772537248/76473 [========>.....] - ETA: 4:24 - loss: 0.3632 - auroc: 0.772
- ETA: 4:23 - loss: 0.3634 - auroc: 0.772 - ETA: 4:23 - loss: 0.3636 - auroc: 0.772 - ETA: 4:23 -
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auroc: 0.772 - ETA: 4:22 - loss: 0.3633 - auroc: 0.772 - ETA: 4:21 - loss: 0.3634 - auroc: 0.772 -
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uroc: 0.772 - ETA: 4:19 - loss: 0.3636 - auroc: 0.772 - ETA: 4:19 - loss: 0.3636 - auroc: 0.772 -
ETA: 4:19 - loss: 0.3635 - auroc: 0.772 - ETA: 4:18 - loss: 0.3636 - auroc: 0.772 - ETA: 4:18 - lo
```

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ETA: 4:14 - loss: 0.3626 - auroc: 0.774 - ETA: 4:14 - loss: 0.3625 - auroc: 0.774 - ETA: 4:13 - lo
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uroc: 0.774 - ETA: 4:10 - loss: 0.3632 - auroc: 0.774 - ETA: 4:10 - loss: 0.3636 - auroc: 0.774 -
ETA: 4:09 - loss: 0.3636 - auroc: 0.773 - ETA: 4:09 - loss: 0.3635 - auroc: 0.774 - ETA: 4:09 - lo
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uroc: 0.774 - ETA: 4:08 - loss: 0.3640 - auroc: 0.774 - ETA: 4:07 - loss: 0.3642 - auroc: 0.773 -
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uroc: 0.772 - ETA: 3:44 - loss: 0.3648 - auroc: 0.772 - ETA: 3:44 - loss: 0.3645 - auroc: 0.773 -
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ss: 0.3653 - auroc: 0.772 - ETA: 3:20 - loss: 0.3654 - auroc: 0.771949664/76473
```

[=========>.....] - ETA: 3:20 - loss: 0.3653 - auroc: 0.772 - ETA: 3:19 - loss: 0.3

```
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uroc: 0.77 - ETA: 22s - loss: 0.3677 - auroc: 0.77 - ETA: 22s - loss: 0.3676 - auroc: 0.77 - ETA:
```

uu±00. 0.77 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 -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 - 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)))
```

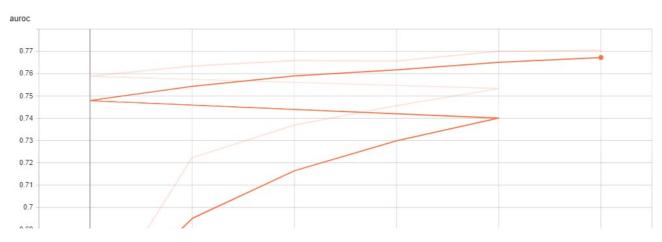
AUC score is 0.7632732608913567

## **Tensorboard images**

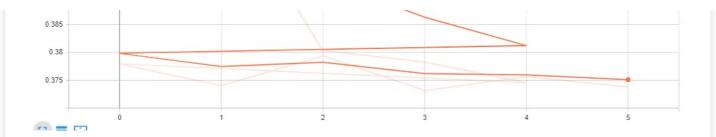
In [8]:

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

Out[8]:







## Observation

Trained models with three architectures

Model 3 gives better performance that 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)
```

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