Activity 1.2: Training Neural Networks

Objective(s):

This activity aims to demonstrate how to train neural networks using keras

Intended Learning Outcomes (ILOs):

- Demonstrate how to build and train neural networks
- Demonstrate how to evaluate and plot the model using training and validation loss

Resources:

Jupyter Notebook

CI Pima Diabetes Dataset

• pima-indians-diabetes.csv

Procedures

Load the necessary libraries

```
In [4]: from google.colab import drive drive.mount('/content/drive')
```

Mounted at /content/drive

```
In []: from _future_ import absolute_import, division, print_function

import warnings
warnings.filterwarnings("ignore")

import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.metrics import confusion_matrix, precision_recall_curve, roc_auc_score, roc_curve, accuracy_score
from sklearn.ensemble import RandomForestClassifier
```

import seaborn as sns

%matplotlib inline

```
In [ ]: ## Import Keras objects for Deep Learning
```

```
from keras.models import Sequential
from keras.layers import Input, Dense, Flatten, Dropout, BatchNormalization
from keras.optimizers import Adam, SGD, RMSprop
```

Load the dataset

Check the top 5 samples of the data

```
In [ ]: print(diabetes_df.shape)
    diabetes_df.sample(5)
```

(768, 9)

	. ,								
	times_pregnant	glucose_tolerance_test	$blood_pressure$	skin_thickness	insulin	bmi	pedigree_function	age	has_diabetes
275	2	100	70	52	57	40.5	0.677	25	0
367	0	101	64	17	0	21.0	0.252	21	0
550	1	116	70	28	0	27.4	0.204	21	0
711	5	126	78	27	22	29.6	0.439	40	0
407	0	101	62	0	0	21.9	0.336	25	0

```
In [ ]: diabetes_df.dtypes
```

```
Out[]: times_pregnant int64
glucose_tolerance_test int64
blood_pressure int64
skin_thickness int64
insulin int64
bmi float64
pedigree_function float64
age int64
has_diabetes int64
dtype: object
```

```
In [ ]: X = diabetes_df.iloc[:, :-1].values
y = diabetes_df["has_diabetes"].values
```

Split the data to Train, and Test (75%, 25%)

```
In [ ]: X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.25, random_state=11111)
```

In []: np.mean(y), np.mean(1-y)

Out[]: (0.34895833333333, 0.651041666666666)

Build a single hidden layer neural network using 12 nodes. Use the sequential model with single layer network and input shape to 8.

Normalize the data

```
In [ ]: normalizer = StandardScaler()
    X_train_norm = normalizer.fit_transform(X_train)
    X_test_norm = normalizer.transform(X_test)
```

Define the model

- Input size is 8-dimensional
- 1 hidden layer, 12 hidden nodes, sigmoid activation

Final layer with one node and sigmoid activation (standard for binary classification)

```
In [ ]: model = Sequential([
    Dense(12, input_shape=(8,), activation="relu"),
    Dense(1, activation="sigmoid")
])
```

View the model summary

In []: model.summary()

Model: "sequential"

Layer (type)	Output Shape	Param #
dense (Dense)	(None, 12)	108
dense_1 (Dense)	(None, 1)	13
Total params: 121 (484.00 Trainable params: 121 (48	4.00 Byte)	

Train the model

- Compile the model with optimizer, loss function and metrics
- Use the fit function to return the run history.

```
In []: model.compile(SGD(lr = .003), "binary_crossentropy", metrics=["accuracy"])
run_hist_1 = model.fit(X_train_norm, y_train, validation_data=(X_test_norm, y_test), epochs=200)

WARNING:absl:'lr' is deprecated in Keras optimizer, please use 'learning_rate' or use the legacy optimizer, e.g.,tf.keras.optimizers.legacy.SGD.
```

```
Epoch 1/200
                                      - 1s 14ms/step - loss: 0.8674 - accuracy: 0.4774 - val_loss: 0.8803 - val_accuracy: 0.4792
18/18 [===
Epoch 2/200
18/18 「====
                                        0s 4ms/step - loss: 0.8252 - accuracy: 0.4965 - val loss: 0.8382 - val accuracy: 0.4896
      3/200
18/18
                                           4ms/step - loss: 0.7907 - accuracy: 0.5226 - val_loss: 0.8034 - val_accuracy: 0.5104
      4/200
Epoch
                                        0s 4ms/step - loss: 0.7621 - accuracy: 0.5417 - val_loss: 0.7741 - val_accuracy: 0.5312
18/18 [====
Epoch 5/200
18/18 Γ===
                      6/200
Epoch
18/18
Epoch 7/20
18/18 [===
                                           4ms/step - loss: 0.6996 - accuracy: 0.6181 - val loss: 0.7088 - val accuracy: 0.5833
Epoch 8/200
18/18 [=
                                           3ms/step - loss: 0.6840 - accuracy: 0.6337 - val loss: 0.6924 - val accuracy: 0.6146
Epoch
18/18
      9/200
                                                     loss: 0.6704 -
                                                                    accuracy: 0.6493 - val_loss: 0.6782 - val_accuracy: 0.6406
Epoch 10/200
                                        0s 5ms/step - loss: 0.6581 - accuracy: 0.6528 - val_loss: 0.6656 - val_accuracy: 0.6354
18/18 [=
Epoch 11/200
18/18 F
                          Epoch 12/200
18/18 [====
                                           4ms/step - loss: 0.6379 - accuracy: 0.6753 - val_loss: 0.6442 - val_accuracy: 0.6510
18/18 [=====
Epoch 13/200
18/18 [=====
                                        0s 5ms/step - loss: 0.6289 - accuracy: 0.6788 - val loss: 0.6349 - val accuracy: 0.6615
Epoch 14/200
18/18 [=====
                                           3ms/step - loss: 0.6207 - accuracy: 0.6892 - val loss: 0.6265 - val accuracy: 0.6667
Epoch
18/18
   nch 15/200
                                                                    accuracy: 0.6927 - val_loss: 0.6187 - val_accuracy: 0.6823
18/18 [=====
Epoch 16/200
18/18 [====
Epoch 17/200
                                        0s 4ms/step - loss: 0.6065 - accuracy: 0.7066 - val loss: 0.6116 - val accuracy: 0.6875
18/18 F
                                        0s 4ms/step - loss: 0.6003 - accuracy: 0.7153 - val loss: 0.6048 - val accuracy: 0.6979
Epoch 18/200
18/18 [====
      19/200
Epoch 19/20
18/18 [====
                                           4ms/step - loss: 0.5888 - accuracy: 0.7222 - val_loss: 0.5928 - val_accuracy: 0.7083
Epoch 20/200
18/18 [====
                                           4ms/step - loss: 0.5836 - accuracy: 0.7222 - val_loss: 0.5875 - val_accuracy: 0.7031
      21/200
                                                    - loss: 0.5786 - accuracy: 0.7257 - val_loss: 0.5825 - val_accuracy: 0.7135
Epoch 22/200
                                        0s 4ms/step - loss: 0.5739 - accuracy: 0.7292 - val loss: 0.5779 - val accuracy: 0.7188
18/18 F=
Epoch 23/200
18/18 I
                                      - 0s 4ms/step - loss: 0.5696 - accuracy: 0.7274 - val loss: 0.5737 - val accuracy: 0.7240
      24/200
                                        Os 3ms/step - loss: 0.5653 - accuracy: 0.7274 - val loss: 0.5696 - val accuracy: 0.7240
      25/200
Epoch
18/18 [==:
                                        0s 3ms/step - loss: 0.5609 - accuracy: 0.7292 - val loss: 0.5658 - val accuracy: 0.7240
Epoch 26/200
18/18 F
                                           3ms/step - loss: 0.5570 - accuracy: 0.7326 - val_loss: 0.5621 - val_accuracy: 0.7240
      27/200
Epoch
18/18
                                           4ms/step - loss: 0.5532 - accuracy: 0.7344 - val_loss: 0.5587 - val_accuracy: 0.7240
18/18 [====
Epoch 28/200
18/18 [===
                         ========] - 0s 4ms/step - loss: 0.5497 - accuracy: 0.7344 - val loss: 0.5556 - val accuracy: 0.7240
Fnoch 29/200
18/18
                                           4ms/step - loss: 0.5462 - accuracy: 0.7361 - val loss: 0.5526 - val accuracy: 0.7240
      30/200
      31/200
Epoch 31,
18/18 [==
                                           4ms/step - loss: 0.5400 - accuracy: 0.7413 - val loss: 0.5470 - val accuracy: 0.7240
      32/200
Epoch
                                           4ms/step - loss: 0.5370 - accuracy: 0.7413 - val_loss: 0.5445 - val_accuracy: 0.7240
      33/200
Epoch 33
18/18 [=
                                        Os 4ms/step - loss: 0.5341 - accuracy: 0.7413 - val loss: 0.5420 - val accuracy: 0.7240
Epoch 34/200
18/18 F=
                           Epoch
      35/200
18/18
                                        Os 3ms/step - loss: 0.5286 - accuracy: 0.7431 - val_loss: 0.5373 - val_accuracy: 0.7240
      36/200
Epoch 36/200
18/18 [====
Epoch 37/200
                                        Os 4ms/step - loss: 0.5259 - accuracy: 0.7413 - val_loss: 0.5351 - val_accuracy: 0.7188
18/18 [==
                                        0s 6ms/step - loss: 0.5235 - accuracy: 0.7448 - val loss: 0.5331 - val accuracy: 0.7188
Epoch
18/18
      38/200
                                                                    accuracy: 0.7465 - val_loss: 0.5310 - val_accuracy: 0.7188
                                           6ms/step - loss: 0.5209 -
       [====
39/200
Epoch 39/200
18/18 [====
Epoch 40/200
                                           6ms/step - loss: 0.5186 - accuracy: 0.7465 - val_loss: 0.5291 - val_accuracy: 0.7135
18/18 [=
                         Fnoch 41/200
18/18
                                           6ms/step - loss: 0.5139 - accuracy: 0.7431 - val loss: 0.5253 - val accuracy: 0.7188
      42/200
Epoch 42/200
18/18 [====
Epoch 43/200
                                           5ms/step - loss: 0.5117 - accuracy: 0.7465 - val loss: 0.5237 - val accuracy: 0.7135
18/18 F==
                                        0s 5ms/step - loss: 0.5096 - accuracy: 0.7483 - val loss: 0.5220 - val accuracy: 0.7135
Epoch 44/200
18/18 [====
Epoch 45/200
                                                                    accuracy: 0.7483 - val_loss: 0.5205 - val_accuracy: 0.7135
                                        0s 4ms/step - loss: 0.5056 - accuracy: 0.7448 - val_loss: 0.5189 - val_accuracy: 0.7135
18/18 [==
Epoch 46/200
18/18 F==
                          ch 47/200
Epoch 47/200
18/18 [=====
Epoch 48/200
18/18 [=====
Epoch 49/200
                                           5ms/step - loss: 0.5016 - accuracy: 0.7535 - val_loss: 0.5163 - val_accuracy: 0.7135
                                        0s 4ms/step - loss: 0.4998 - accuracy: 0.7569 - val loss: 0.5151 - val accuracy: 0.7135
18/18 Г==
                                        0s 5ms/step - loss: 0.4981 - accuracy: 0.7587 - val loss: 0.5139 - val accuracy: 0.7188
      50/200
Epoch
18/18
                                                                    accuracy: 0.7604 - val_loss: 0.5128 - val_accuracy: 0.7292
      51/200
Epoch 51,
18/18 [==
                                           5ms/step - loss: 0.4946 - accuracy: 0.7622 - val_loss: 0.5117 - val_accuracy: 0.7292
Epoch 52/200
18/18
                                        0s 5ms/step - loss: 0.4927 - accuracy: 0.7622 - val loss: 0.5106 - val accuracy: 0.7292
      53/200
18/1
Epoch 54/2
18/18 [=====
3ch 55/200
                                           7ms/step - loss: 0.4895 - accuracy: 0.7587 - val_loss: 0.5086 - val_accuracy: 0.7396
                                        0s 6ms/step - loss: 0.4877 - accuracy: 0.7604 - val loss: 0.5077 - val accuracy: 0.7448
      56/200
                                                    - loss: 0.4861 - accuracy: 0.7587 - val_loss: 0.5068 - val_accuracy: 0.7448
      57/200
Epoch
                                        Os 5ms/step - loss: 0.4845 - accuracy: 0.7622 - val loss: 0.5060 - val accuracy: 0.7448
18/18 [=
Epoch 58/200
18/18
                          59/200
Epoch
18/18
      60/200
Epoch
18/18 [==
                                 :===] - 0s 5ms/step - loss: 0.4803 - accuracy: 0.7726 - val loss: 0.5037 - val accuracy: 0.7448
Epoch 61/200
.
18/18 Г=
                                        0s 6ms/step - loss: 0.4788 - accuracy: 0.7743 - val loss: 0.5030 - val accuracy: 0.7448
      62/200
                                           6ms/step - loss: 0.4773 - accuracy: 0.7691 - val_loss: 0.5023 - val_accuracy: 0.7448
      [=====
63/200
                         ========] - 0s 6ms/step - loss: 0.4760 - accuracy: 0.7708 - val_loss: 0.5017 - val_accuracy: 0.7448
18/18 [==
Fnoch 64/200
18/18 [=
                   ========] - 0s 6ms/step - loss: 0.4749 - accuracy: 0.7726 - val_loss: 0.5012 - val_accuracy: 0.7500
```

```
Epoch 65/200
                                            0s 7ms/step - loss: 0.4736 - accuracy: 0.7778 - val_loss: 0.5006 - val_accuracy: 0.7500
18/18 [===
Epoch 66/200
18/18 「==
                                            0s 5ms/step - loss: 0.4725 - accuracy: 0.7795 - val loss: 0.5001 - val accuracy: 0.7500
      67/200
18/18 [
                                               5ms/step - loss: 0.4715 - accuracy: 0.7795 - val_loss: 0.4996 - val_accuracy: 0.7552
Epoch 68/200
                                            0s 6ms/step - loss: 0.4702 - accuracy: 0.7778 - val_loss: 0.4992 - val_accuracy: 0.7604
18/18 [====
Epoch 69/200
18/18 Г==
                                            0s 6ms/step - loss: 0.4692 - accuracy: 0.7795 - val loss: 0.4987 - val accuracy: 0.7604
      70/200
Epoch
18/18
                                                           loss: 0.4673 - accuracy: 0.7795 - val loss: 0.4979 - val accuracy: 0.7656
Epoch 72/200
18/18
                                               6ms/step - loss: 0.4663 - accuracy: 0.7812 - val loss: 0.4976 - val accuracy: 0.7656
      73/200
Epoch
18/18
                                                                           accuracy: 0.7778 -
      74/200
                                               4ms/step - loss: 0.4644 - accuracy: 0.7778 - val_loss: 0.4969 - val_accuracy: 0.7656
18/18 [=
      75/200
Epoch
18/18 [=
                                           0s 3ms/step - loss: 0.4636 - accuracy: 0.7760 - val loss: 0.4966 - val accuracy: 0.7656
      76/200
      77/200
Epoch 77/2
18/18 [===
                                               4ms/step - loss: 0.4621 - accuracy: 0.7726 - val loss: 0.4961 - val accuracy: 0.7656
Epoch 78/200
18/18 [=====
                                               4ms/sten - loss: 0 4612 - accuracy: 0 7760 - val loss: 0 4958 - val accuracy: 0 7604
      79/200
Epoch
18/18
18/18 [====
Epoch 80/200
18/18 [==
                                            0s 4ms/step - loss: 0.4598 - accuracy: 0.7726 - val loss: 0.4954 - val accuracy: 0.7656
Epoch 81/200
18/18
                                            0s 4ms/step - loss: 0.4590 - accuracy: 0.7743 - val loss: 0.4952 - val accuracy: 0.7656
      82/200
      [====-
83/200
Epoch 83/20
18/18 [====
                                               4ms/step - loss: 0.4577 - accuracy: 0.7795 - val_loss: 0.4949 - val_accuracy: 0.7604
Epoch 84/200
18/18 [====
                                               4ms/step - loss: 0.4571 - accuracy: 0.7795 - val_loss: 0.4947 - val_accuracy: 0.7604
       85/200
                                                                 0.4565 -
Epoch 86/200
18/18 F==
                                               4ms/step - loss: 0.4559 - accuracy: 0.7795 - val loss: 0.4945 - val accuracy: 0.7604
Epoch 87/200
18/18
                                            0s 4ms/step - loss: 0.4554 - accuracy: 0.7812 - val loss: 0.4943 - val accuracy: 0.7604
Epoch 88/200
18/18 [====
Epoch 89/200
                                               4ms/step - loss: 0.4547 - accuracy: 0.7812 - val loss: 0.4942 - val accuracy: 0.7604
18/18 [==:
                                               4ms/step - loss: 0.4542 - accuracy: 0.7830 - val loss: 0.4941 - val accuracy: 0.7656
Epoch 90/200
18/18 F
                                               4ms/step - loss: 0.4537 -
                                                                           accuracy: 0.7830 - val_loss: 0.4940 - val_accuracy: 0.7656
Epoch 91/200
18/18 [====
Epoch 92/200
                                                         - loss: 0.4531 - accuracy: 0.7812 - val_loss: 0.4939 - val_accuracy: 0.7656
18/18 [==:
                                            0s 5ms/step - loss: 0.4526 - accuracy: 0.7865 - val loss: 0.4939 - val accuracy: 0.7656
      93/200
18/18
                                               11ms/step - loss: 0.4520 - accuracy: 0.7865 - val loss: 0.4938 - val accuracy: 0.7656
       94/200
      95/200
Epoch
18/18 F==
                                                            loss: 0.4512 - accuracy: 0.7934 - val loss: 0.4936 - val accuracy: 0.7656
Epoch
18/18
      96/200
                                                                           accuracy: 0.7917 -
                                                                                               val loss: 0.4936 - val accuracy: 0.7656
      97/200
Epoch 97
18/18 [=
                                                                           accuracy: 0.7934 -
                                                                                                val loss: 0.4935
                                                                                                                   - val accuracy: 0.7656
Epoch 98/200
18/18 F==
                                            0s 4ms/step - loss: 0.4497 - accuracy: 0.7951 - val loss: 0.4935 - val accuracy: 0.7656
Epoch
      99/200
18/18
                                               3ms/step - loss: 0.4494 - accuracy: 0.7934 - val_loss: 0.4935 - val_accuracy: 0.7656
       100/200
Epoch 100/200
18/18 [=====
Epoch 101/200
                                               3ms/step - loss: 0.4491 - accuracy: 0.7934 - val_loss: 0.4935 - val_accuracy: 0.7656
18/18 [==
                                               4ms/step - loss: 0.4487 - accuracy: 0.7917 - val loss: 0.4934 - val accuracy: 0.7656
Epoch
18/18
      102/200
                                                                           accuracy: 0.7917 - val_loss: 0.4935 - val_accuracy: 0.7656
                                                         - loss: 0.4485 -
       103/200
Epoch
18/18
                                                         - loss: 0.4479 - accuracy: 0.7917 - val_loss: 0.4935 - val_accuracy: 0.7656
Epoch 104/200
18/18
                                            0s 6ms/step - loss: 0.4476 - accuracy: 0.7917 - val loss: 0.4935 - val accuracy: 0.7604
      105/200
18/18
                                                            loss: 0.4473 - accuracy: 0.7917 - val loss: 0.4935 - val accuracy: 0.7656
       106/200
Epoch
18/18
                                                            loss: 0.4470 - accuracy: 0.7917 - val_loss: 0.4936 - val_accuracy: 0.7708
18/18 [=====
Epoch 107/200
18/18 F==
                                                            loss: 0.4467 - accuracy: 0.7899 - val loss: 0.4936 - val accuracy: 0.7708
Epoch 108/200
18/18 [=====
      109/200
                                            0s 3ms/step - loss: 0.4461 - accuracy: 0.7934 - val_loss: 0.4936 - val_accuracy: 0.7708
18/18 [=
Epoch 110/200
18/18
                                            0s 4ms/step - loss: 0.4458 - accuracy: 0.7917 - val loss: 0.4936 - val accuracy: 0.7708
      111/200
18/18
                                               3ms/step - loss: 0.4455 - accuracy: 0.7882 - val_loss: 0.4937 - val_accuracy: 0.7708
Epoch 112/200
18/18 [=====
                                            0s 3ms/step - loss: 0.4452 - accuracy: 0.7917 - val loss: 0.4937 - val accuracy: 0.7708
18/18 [=====
Epoch 113/200
18/18 F
                                               4ms/sten - loss: 0.4450 - accuracy: 0.7917 - val loss: 0.4937 - val accuracy: 0.7708
      114/200
Epoch
18/18
      115/200
Epoch 11
18/18 [=
                                               4ms/step - loss: 0.4445 - accuracy: 0.7951 - val_loss: 0.4938 - val_accuracy: 0.7656
Epoch 116/200
18/18
                                               4ms/step - loss: 0.4443 - accuracy: 0.7934 - val loss: 0.4938 - val accuracy: 0.7656
Epoch 117/200
18/18 [=====
      118/200
Epoch 118
18/18 [==
                                               3ms/step - loss: 0.4437 - accuracy: 0.7882 - val_loss: 0.4940 - val_accuracy: 0.7656
Epoch 119/200
18/18 F=
                                               4ms/step - loss: 0.4434 - accuracy: 0.7917 - val loss: 0.4941 - val accuracy: 0.7656
      120/200
                                                           loss: 0.4432 - accuracy: 0.7917 -
      121/200
Epoch
                                            0s 4ms/step - loss: 0.4430 - accuracy: 0.7917 - val loss: 0.4942 - val accuracy: 0.7656
18/18 [=
Epoch 122/200
18/18
                                               3ms/sten - loss: 0.4428 - accuracy: 0.7899 - val loss: 0.4943 - val accuracy: 0.7656
Epoch
18/18
      123/200
18/18 [=====
Epoch 124/200
18/18
                                            0s 3ms/step - loss: 0.4424 - accuracy: 0.7934 - val loss: 0.4944 - val accuracy: 0.7656
18/18 [=====
Epoch 125/200
18/18
                                            0s 4ms/step - loss: 0.4423 - accuracy: 0.7865 - val loss: 0.4945 - val accuracy: 0.7656
       126/200
                                               4ms/step - loss: 0.4419 - accuracy: 0.7917 - val_loss: 0.4946 - val_accuracy: 0.7656
      127/200
                                     :===] - 0s 3ms/step - loss: 0.4417 - accuracy: 0.7934 - val_loss: 0.4947 - val_accuracy: 0.7656
18/18 [=
Fnoch 128/200
18/18
                       =======] - 0s 4ms/step - loss: 0.4415 - accuracy: 0.7934 - val_loss: 0.4948 - val_accuracy: 0.7656
```

	129/200				,							
	[=========] 130/200	-	0s	3ms/step	- loss:	0.4412 -	accuracy:	0.7917 -	val_loss:	0.4950 -	val_accuracy:	0.7656
	[=======]	-	0s	5ms/step	- loss:	0.4411 -	accuracy:	0.7951 -	val_loss:	0.4951 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4409 -	accuracy:	0.7951 -	val_loss:	0.4952 -	val_accuracy:	0.7656
	132/200	-	0s	4ms/step	- loss:	0.4406 -	accuracy:	0.7951 -	val_loss:	0.4953 -	val_accuracy:	0.7656
	133/200 []	۱ -	95	4ms/sten	- loss:	0.4405 -	accuracy:	0.7951 -	val loss:	0.4954 -	val accuracy:	0.7708
Epoch	134/200											
	[========] 135/200	-	ØS.	4ms/step	- 1oss:	0.4403 -	accuracy:	0.7951 -	val_loss:	0.4955 -	val_accuracy:	0.7708
	[=======] 136/200	-	0s	4ms/step	- loss:	0.4401 -	accuracy:	0.7951 -	val_loss:	0.4956 -	val_accuracy:	0.7708
18/18	[]	-	0s	3ms/step	- loss:	0.4399 -	accuracy:	0.7951 -	val_loss:	0.4957 -	val_accuracy:	0.7708
	137/200	-	0s	3ms/step	- loss:	0.4399 -	accuracy:	0.7934 -	val_loss:	0.4959 -	val_accuracy:	0.7708
	138/200		۵c	Ams/stan	- 1000	0 1395 -	accuracy:	0 7051 -	val loss:	0 1050 -	val accuracy:	0 7708
Epoch	139/200											
	[========] 140/200	-	0s	3ms/step	- loss:	0.4393 -	accuracy:	0.7951 -	val_loss:	0.4960 -	val_accuracy:	0.7708
	[=======] 141/200	-	0s	3ms/step	- loss:	0.4392 -	accuracy:	0.7951 -	val_loss:	0.4962 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4390 -	accuracy:	0.7934 -	val_loss:	0.4963 -	val_accuracy:	0.7708
	142/200	-	0s	4ms/step	- loss:	0.4388 -	accuracy:	0.7934 -	val_loss:	0.4964 -	val_accuracy:	0.7708
	143/200	۱ -	as	3ms/sten	- loss:	0 4385 -	accuracy:	0 7899 -	val loss:	0 4965 -	val accuracy:	0 7708
Epoch	144/200						-		_			
	[========] 145/200	-	0s	4ms/step	- loss:	0.4384 -	accuracy:	0.7951 -	val_loss:	0.4966 -	val_accuracy:	0.7708
	[=======] 146/200	-	0s	4ms/step	- loss:	0.4383 -	accuracy:	0.7934 -	val_loss:	0.4967 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4380 -	accuracy:	0.7882 -	val_loss:	0.4968 -	val_accuracy:	0.7708
	147/200	-	0s	3ms/step	- loss:	0.4378 -	accuracy:	0.7934 -	val_loss:	0.4969 -	val_accuracy:	0.7708
Epoch	148/200 [=======]											
Epoch	149/200											
	[=====================================	-	ØS	∍ms/step	- 10SS:	v.4376 -	accuracy:	v./917 -	val_loss:	υ.4971 -	vai_accuracy:	v./708
18/18	[======] 151/200	-	0s	3ms/step	- loss:	0.4373 -	accuracy:	0.7917 -	val_loss:	0.4972 -	val_accuracy:	0.7708
18/18	[]	-	0s	3ms/step	- loss:	0.4372 -	accuracy:	0.7917 -	val_loss:	0.4973 -	val_accuracy:	0.7708
	152/200	-	0s	4ms/step	- loss:	0.4371 -	accuracy:	0.7899 -	val_loss:	0.4974 -	val_accuracy:	0.7708
Epoch	153/200 [======]											
Epoch	154/200											
	[=========] 155/200	-	0s	4ms/step	- loss:	0.4368 -	accuracy:	0.7934 -	val_loss:	0.4976 -	val_accuracy:	0.7708
18/18	[=======] 156/200	-	0s	4ms/step	- loss:	0.4366 -	accuracy:	0.7899 -	val_loss:	0.4977 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4365 -	accuracy:	0.7882 -	val_loss:	0.4979 -	val_accuracy:	0.7708
	157/200	-	0s	4ms/step	- loss:	0.4363 -	accuracy:	0.7917 -	val_loss:	0.4979 -	val_accuracy:	0.7708
Epoch	158/200 [======]											
Epoch	159/200						-		_			
	[=======] 160/200	-	0s	4ms/step	- loss:	0.4360 -	accuracy:	0.7882 -	val_loss:	0.4981 -	val_accuracy:	0.7708
18/18	[======] 161/200	-	0s	4ms/step	- loss:	0.4360 -	accuracy:	0.7882 -	val_loss:	0.4982 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4358 -	accuracy:	0.7865 -	val_loss:	0.4983 -	val_accuracy:	0.7708
	162/200	۱ -	0s	4ms/step	- loss:	0.4357 -	accuracy:	0.7865 -	val loss:	0.4984 -	val accuracy:	0.7708
Epoch	163/200											
	[=======] 164/200	-	05	oms/scep	- 1055:	0.4333 -	accuracy:	0.7862 -	Va1_1055:	0.4905 -	vai_accuracy:	0.7700
	[=======] 165/200	-	0s	4ms/step	- loss:	0.4355 -	accuracy:	0.7917 -	val_loss:	0.4985 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4353 -	accuracy:	0.7899 -	val_loss:	0.4986 -	val_accuracy:	0.7656
	166/200 [=========]	-	0s	3ms/step	- loss:	0.4352 -	accuracy:	0.7882 -	val_loss:	0.4987 -	val_accuracy:	0.7656
	167/200 []	-	0s	4ms/step	- loss:	0.4351 -	accuracy:	0.7882 -	val loss:	0.4988 -	val accuracy:	0.7656
Epoch	168/200 [======]						-		_			
Epoch	169/200						-		_			
	[=======] 170/200	-	0s	4ms/step	- loss:	0.4347 -	accuracy:	0.7899 -	val_loss:	0.4990 -	val_accuracy:	0.7656
18/18	[======] 171/200	-	0s	4ms/step	- loss:	0.4345 -	accuracy:	0.7899 -	val_loss:	0.4990 -	val_accuracy:	0.7656
	[]	-	0s	3ms/step	- loss:	0.4345 -	accuracy:	0.7917 -	val_loss:	0.4991 -	val_accuracy:	0.7656
	172/200	۱ -	0s	5ms/step	- loss:	0.4343 -	accuracy:	0.7917 -	val loss:	0.4991 -	val accuracy:	0.7708
Epoch	173/200											
Epoch	[======] 174/200				- 1022:	0.4342 -	accuracy:	0./062 -	var 1055:			0 7700
	[]	-	ο-									
	175/200		Ø5	4ms/step	- loss:	0.4341 -	accuracy:	0.7899 -				
	[]	-					-		val_loss:	0.4993 -	val_accuracy:	0.7708
Epoch 18/18	[======] 176/200 [======]		0s	4ms/step	- loss:	0.4340 -	accuracy:	0.7882 -	val_loss:	0.4993 - 0.4994 -	<pre>val_accuracy: val_accuracy:</pre>	0.7708 0.7708
Epoch 18/18 Epoch	[======] 176/200	-	0s 0s	4ms/step	- loss: - loss:	0.4340 - 0.4339 -	accuracy:	0.7882 - 0.7899 -	val_loss: val_loss: val_loss:	0.4993 - 0.4994 - 0.4995 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7708 0.7708 0.7656
Epoch 18/18 Epoch 18/18 Epoch	[=====================================	- -	0s 0s 0s	4ms/step 4ms/step 3ms/step	- loss: - loss: - loss:	0.4340 - 0.4339 - 0.4337 -	accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 -	<pre>val_loss: val_loss: val_loss: val_loss:</pre>	0.4993 - 0.4994 - 0.4995 - 0.4996 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7708 0.7708 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[] 176/200 [] 177/200 [] 178/200 [] 178/200	- -	0s 0s 0s	4ms/step 4ms/step 3ms/step 3ms/step	- loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 -	accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 -	<pre>val_loss: val_loss: val_loss: val_loss:</pre>	0.4993 - 0.4994 - 0.4995 - 0.4996 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7708 0.7708 0.7656 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=======] 176/200 [========] 177/200 [========] 178/200 [=================] 179/200 [===================================	- -	0s 0s 0s	4ms/step 4ms/step 3ms/step 3ms/step	- loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 -	accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 -	<pre>val_loss: val_loss: val_loss: val_loss:</pre>	0.4993 - 0.4994 - 0.4995 - 0.4996 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7708 0.7708 0.7656 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=======] 176/200 [=======] 177/200 [=======] 178/200 [=============] 179/200 [====================] 180/200 [===================================	- - -	0s 0s 0s 0s	4ms/step 4ms/step 3ms/step 3ms/step 4ms/step	- loss: - loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 - 0.4335 -	accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 -	<pre>val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:</pre>	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.4999 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.77080.77080.76560.76560.76560.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[] 176/200 [] 177/200 [] 178/200 [] 179/200 [] 180/200 [] 181/200 []	- - - -	0s 0s 0s 0s 0s	4ms/step 4ms/step 3ms/step 3ms/step 4ms/step 4ms/step	- loss: - loss: - loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 - 0.4335 - 0.4333 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.4999 - 0.5000 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=======] 176/200 [========] 177/200 [========] 178/200 [==========] 179/200 [==========] 180/200 [============] 181/200 [=============] 182/200	- - - -	0s 0s 0s 0s 0s	4ms/step 4ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step	- loss: - loss: - loss: - loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 - 0.4335 - 0.4333 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7934 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.4999 - 0.5000 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=======] 176/200 [=======] 177/200 [======] 178/200 [=======] 179/200 [========] 180/200 [========] 181/200 [=======] 182/200 [=======] 183/200	 - - -	0s 0s 0s 0s 0s	4ms/step 4ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step	- loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4336 - 0.4335 - 0.4333 - 0.4333 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7934 - 0.7934 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.4999 - 0.5000 - 0.5001 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=======] 176/200 [=======] 178/200 [=======] 179/200 [========] 188/200 [============] 182/200 [==========] 183/200 [============] 183/200 [====================] 183/200 [==================] 184/200	- - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	4ms/step 4ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step	- loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4336 - 0.4335 - 0.4333 - 0.4333 - 0.4331 - 0.4330 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7934 - 0.7934 - 0.7951 -	val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.4999 - 0.5000 - 0.5001 - 0.5003 -	val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=======] 176/200 [=======] 177/200 [========] 178/200 [=================] 189/200 [===================================	- - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	4ms/step 4ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step	- loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4336 - 0.4335 - 0.4333 - 0.4333 - 0.4331 - 0.4330 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7934 - 0.7934 - 0.7951 -	val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.4999 - 0.5000 - 0.5001 - 0.5003 -	val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18	[=======] 176/200 [======] 177/200 [======] 178/200 [=======] 189/200 [========] 181/200 [=======] 182/200 [========] 183/200 [========] 183/200 [=========] 183/200 [===========] 184/200 [===================================	- - - - - - - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	4ms/step 4ms/step 3ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step 4ms/step 4ms/step	- loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 - 0.4333 - 0.4333 - 0.4331 - 0.4330 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7934 - 0.7917 - 0.7951 -	val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.4999 - 0.5000 - 0.5001 - 0.5002 - 0.5003 -	val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18	[=======] 176/200 [=======] 178/200 [=======] 179/200 [=======] 189/200 [========] 181/200 [========] 183/200 [=========] 184/200 [===========] 185/200 [=============] 185/200 [=============]	- - - - - - - - - -	0s 0s 0s 0s 0s 0s 0s	Ams/step Ams/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step 4ms/step 5ms/step 5ms/step	- loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 - 0.4333 - 0.4333 - 0.4331 - 0.4330 - 0.4330 - 0.4329 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7934 - 0.7917 - 0.7951 - 0.7951 - 0.7954 -	val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.5001 - 0.5002 - 0.5003 - 0.5003 - 0.5004 -	val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch	[=======] 176/200 [=======] 177/200 [=======] 179/200 [=======] 180/200 [========] 181/200 [========] 182/200 [=========] 183/200 [============] 184/200 [====================] 185/200 [===================================	- - - - - - - - - -	0s 0s 0s 0s 0s 0s 0s 0s	Ams/step Ams/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step 4ms/step 5ms/step 4ms/step 4ms/step	- loss:	0.4340 - 0.4337 - 0.4336 - 0.4335 - 0.4333 - 0.4331 - 0.4330 - 0.4329 - 0.4327 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7951 - 0.7951 - 0.7917 - 0.7917 - 0.7917 - 0.7917 -	val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.5000 - 0.5001 - 0.5002 - 0.5003 - 0.5004 - 0.5004 -	val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch	[=======] 176/200 [=======] 177/200 [=======] 179/200 [=======] 189/200 [========] 181/200 [========] 182/200 [========] 183/200 [===========] 183/200 [===========] 184/200 [===============] 185/200 [===========================] 186/200 [===================================	- - - - - - - - - -	9s	Ams/step	- loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 - 0.4333 - 0.4333 - 0.4331 - 0.4330 - 0.4320 - 0.4327 - 0.4326 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7917 - 0.7951 - 0.7917 - 0.7917 - 0.7917 - 0.7917 -	val_loss:	0.4993 - 0.4995 - 0.4996 - 0.4998 - 0.4999 - 0.5000 - 0.5001 - 0.5003 - 0.5003 - 0.5004 - 0.5004 - 0.5005 -	val_accuracy:	0.7708 0.7708 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch	[=======] 176/200 [=======] 177/200 [=======] 179/200 [========] 189/200 [=========] 182/200 [==========] 183/200 [==========] 183/200 [==========================] 184/200 [===================================	·	9s	Ams/step Ams/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step	- loss: - loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 - 0.4333 - 0.4333 - 0.4331 - 0.4330 - 0.4320 - 0.4325 - 0.4326 - 0.4325 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7951 - 0.7951 - 0.7917 - 0.7917 - 0.7934 - 0.7917 - 0.7934 -	val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.5000 - 0.5003 - 0.5003 - 0.5004 - 0.5005 - 0.5005 - 0.5006 -	val_accuracy:	e.7708 e.7708 e.7768 e.7656
Epoch 18/18	[=======] 176/200 [=======] 178/200 [=======] 179/200 [=======] 189/200 [========] 180/200 [========] 181/200 [=========] 181/200 [==========] 184/200 [==========] 185/200 [================] 185/200 [===================================	·	9s	Ams/step Ams/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step	- loss: - loss:	0.4340 - 0.4339 - 0.4337 - 0.4336 - 0.4333 - 0.4333 - 0.4331 - 0.4330 - 0.4320 - 0.4325 - 0.4326 - 0.4325 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7951 - 0.7951 - 0.7917 - 0.7917 - 0.7934 - 0.7917 - 0.7934 -	val_loss:	0.4993 - 0.4994 - 0.4995 - 0.4996 - 0.4998 - 0.5000 - 0.5003 - 0.5003 - 0.5004 - 0.5005 - 0.5005 - 0.5006 -	val_accuracy:	e.7708 e.7708 e.7768 e.7656
Epoch 18/18 Epoch 18/18 18/18 Epoch 18/18	[=======] 176/200 [=======] 177/200 [=======] 179/200 [=======] 188/200 [========] 181/200 [========] 182/200 [========] 183/200 [===========] 183/200 [==========] 185/200 [==============] 185/200 [=============] 187/200 [==============] 187/200 [===================================		9s	4ms/step 4ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step	- loss:	0.4340 - 0.4337 - 0.4336 - 0.4335 - 0.4333 - 0.4331 - 0.4330 - 0.4320 - 0.4327 - 0.4326 - 0.4325 - 0.4324 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7931 - 0.7917 - 0.7931 - 0.7917 - 0.7934 - 0.7917 - 0.7934 - 0.7917 - 0.7934 - 0.7917 -	val_loss:	0.4993 - 0.4996 - 0.4998 - 0.4999 - 0.5000 - 0.5001 - 0.5003 - 0.5004 - 0.5006 - 0.5006 - 0.5006 -	val_accuracy:	e.77e8 e.77e8 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656
Epoch 18/18 Epoch	[=======] 176/200 [=======] 178/200 [=======] 179/200 [=======] 189/200 [=======] 181/200 [=======] 181/200 [========] 181/200 [=======] 184/200 [========] 185/200 [=========] 185/200 [==========] 185/200 [==========] 186/200 [===========] 186/200 [===========] 189/200 [===========] 189/200 [===========] 189/200 [==========] 189/200 [============]	·	0s 0	Ams/step Ams/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step 5ms/step 4ms/step	- loss:	0.4340 - 0.4337 - 0.4336 - 0.4333 - 0.4333 - 0.4331 - 0.4330 - 0.4330 - 0.4320 - 0.4327 - 0.4326 - 0.4325 - 0.4322 -	accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7951 - 0.7951 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 - 0.7957 -	val_loss:	0.4993 - 0.4996 - 0.4998 - 0.4999 - 0.5000 - 0.5003 - 0.5003 - 0.5004 - 0.5006 - 0.5006 - 0.5006 -	val_accuracy:	e.77e8 e.77e8 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656 e.7656
Epoch 18/18 Epoch	[=======] 176/200 [=======] 178/200 [=======] 179/200 [=======] 189/200 [========] 181/200 [========] 181/200 [========] 181/200 [=========] 182/200 [==========] 185/200 [==========] 185/200 [===========] 186/200 [=============] 187/200 [==============] 187/200 [===================================		9s 9	Ams/step Ams/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 3ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 6ms/step 6ms/step	- loss:	0.4340 - 0.4339 - 0.4336 - 0.4335 - 0.4333 - 0.4331 - 0.4330 - 0.4329 - 0.4329 - 0.4326 - 0.4322 - 0.4321 -	accuracy:	0.7882 - 0.7899 - 0.7899 - 0.7917 - 0.7934 - 0.7917 - 0.7951 - 0.7917 - 0.7917 - 0.7917 - 0.7917 - 0.7917 - 0.7917 - 0.7917 - 0.7917 - 0.7917 -	val_loss:	0.4993 - 0.4995 - 0.4996 - 0.4998 - 0.5000 - 0.5001 - 0.5003 - 0.5004 - 0.5004 - 0.5006 - 0.5006 - 0.5007 - 0.5007 -	val_accuracy:	0.7708 0.7708 0.77656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656

```
Epoch 193/200
18/18 [======
Epoch 194/200
                       18/18 [===
                  Epoch 195/200
18/18 [=====
                                  =] - 0s 5ms/step - loss: 0.4317 - accuracy: 0.7934 - val_loss: 0.5010 - val_accuracy: 0.7656
      Epoch 196/200
      18/18 [=====
Epoch 197/200
                                ===] - 0s 5ms/step - loss: 0.4316 - accuracy: 0.7917 - val_loss: 0.5010 - val_accuracy: 0.7656
      .
18/18 Γ==
                     Epoch 198/200
18/18 [======
                            =======] - 0s 5ms/step - loss: 0.4315 - accuracy: 0.7917 - val_loss: 0.5010 - val_accuracy: 0.7708
           199/200
      Epoch 199,
18/18 [==:
                           Epoch 200/200
      18/18 [======
                       In [ ]: y_pred_prob_nn_1 = model.predict(X_test_norm)
y_pred_class_nn_1 = np.argmax(y_pred_prob_nn_1, axis=1)
      6/6 [=====] - 0s 2ms/step
In [ ]: # Let's check out the outputs to get a feel for how keras apis work.
y_pred_class_nn_1[:10]
Out[ ]: array([0, 0, 0, 0, 0, 0, 0, 0, 0])
In [ ]: y_pred_prob_nn_1[:10]
Out[]: array([[0.46349293],
            [0.46349293],
[0.6444795],
[0.3868862],
[0.16646963],
            [0.14696644],
            [0.5131753 ],
           [0.03617987],
[0.29909146],
[0.9291484],
[0.13563998]], dtype=float32)
      Create the plot roc function
tig, ax - pictory thr, 'k-') ax.plot([0, 1], [0, 1], 'k--', linewidth=.5) # roc curve for random model
```

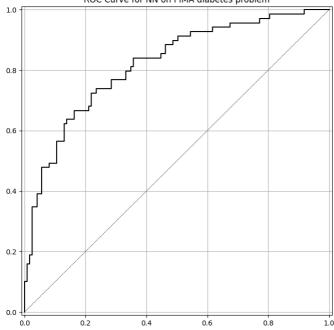
ax.set(title='ROC Curve for {} on PIMA diabetes problem'.format(model_name), xlim=[-0.01, 1.01], ylim=[-0.01, 1.01])

Evaluate the model performance and plot the ROC CURVE

```
In []: print('accuracy is {:.3f}'.format(accuracy_score(y_test,y_pred_class_nn_1)))
print('roc-auc is {:.3f}'.format(roc_auc_score(y_test,y_pred_prob_nn_1)))
plot_roc(y_test, y_pred_prob_nn_1, 'NN')
```

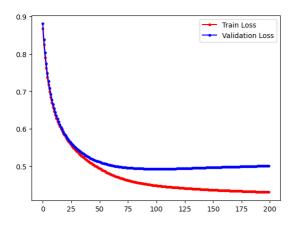
accuracy is 0.641 roc-auc is 0.819

ROC Curve for NN on PIMA diabetes problem



Plot the training loss and the validation loss over the different epochs and see how it looks

```
In []: run_hist_1.history.keys()
Out[]: dict_keys(['loss', 'accuracy', 'val_accuracy'])
In []: fig, ax = plt.subplots()
    ax.plot(run_hist_1.history["loss"],'r', marker='.', label="Train Loss")
    ax.plot(run_hist_1.history["val_loss"],'b', marker='.', label="Validation Loss")
    ax.legend()
Out[]: <matplotlib.legend.Legend at 0x7cf7195ed4e0>
```



What is your interpretation about the result of the train and validation loss?

type your answer here

Supplementary Activity

- Build a model with two hidden layers, each with 6 nodes
- Use the "relu" activation function for the hidden layers, and "sigmoid" for the final layer
- Use a learning rate of .003 and train for 1500 epochs
- Graph the trajectory of the loss functions, accuracy on both train and test set
- Plot the roc curve for the predictions
- Use different learning rates, numbers of epochs, and network structures.
- Plot the results of training and validation loss using different learning rates, number of epocgs and network structures
- Interpret your result

```
Epoch 1/1500
                                            1s 19ms/step - loss: 0.7377 - accuracy: 0.3837 - val_loss: 0.7151 - val_accuracy: 0.4531
18/18 [==
Epoch 2/1500
18/18 F=
                                            0s 6ms/step - loss: 0.7180 - accuracy: 0.4462 - val loss: 0.6995 - val accuracy: 0.4844
       3/1500
18/18
                                                5ms/step - loss: 0.7024 - accuracy: 0.5208 - val_loss: 0.6871 - val_accuracy: 0.5208
       4/1500
Epoch
                                            0s 4ms/step - loss: 0.6895 - accuracy: 0.5764 - val_loss: 0.6768 - val_accuracy: 0.5729
18/18 [====
Epoch 5/1500
18/18 F=
                                            0s 3ms/step - loss: 0.6788 - accuracy: 0.6215 - val loss: 0.6682 - val accuracy: 0.5885
       6/1500
 Epoch
18/18
                                                5ms/step - loss: 0.6620 - accuracy: 0.6580 - val loss: 0.6549 - val accuracy: 0.6771
Epoch 8/1500
 18/18
                                               5ms/step - loss: 0.6553 - accuracy: 0.6771 - val loss: 0.6496 - val accuracy: 0.7031
       9/1500
 Epoch
18/18
                                                           loss: 0.6492 -
                                                                           accuracy: 0.6753 - val_loss: 0.6448 - val_accuracy: 0.7188
       10/1500
                                            0s 3ms/step - loss: 0.6438 - accuracy: 0.6806 - val_loss: 0.6405 - val_accuracy: 0.7083
 18/18 [=
Epoch 11/1500
18/18 F
                                            0s 3ms/step - loss: 0.6389 - accuracy: 0.6858 - val loss: 0.6366 - val accuracy: 0.7083
       12/1500
                                                3ms/step - loss: 0.6343 - accuracy: 0.6840 - val_loss: 0.6330 - val_accuracy: 0.7083
       13/1500
Epoch 13/
18/18 [==
                                               4ms/step - loss: 0.6301 - accuracy: 0.6875 - val loss: 0.6296 - val accuracy: 0.7188
Epoch 14/1500
18/18 [=====
                                               4ms/step - loss: 0.6262 - accuracy: 0.6875 - val loss: 0.6265 - val accuracy: 0.7135
Epoc...
18/18
       15/1500
                                                                           accuracy: 0.6875 - val_loss: 0.6235 - val_accuracy: 0.7083
Epoch 16/1500
 18/18 [=====
Epoch 17/1500
                                            0s 3ms/step - loss: 0.6190 - accuracy: 0.6858 - val loss: 0.6206 - val accuracy: 0.7031
18/18
                                            0s 4ms/step - loss: 0.6155 - accuracy: 0.6858 - val loss: 0.6179 - val accuracy: 0.7083
       18/1500
       19/1500
Epoch 19/
18/18 [==
                                                4ms/step - loss: 0.6091 - accuracy: 0.6823 - val_loss: 0.6127 - val_accuracy: 0.7031
Epoch 20/1500
18/18 [=====
                                                5ms/step - loss: 0.6060 - accuracy: 0.6806 - val_loss: 0.6101 - val_accuracy: 0.7083
       21/1500
                                                           loss: 0.6029 - accuracy: 0.6788 - val_loss: 0.6076 -
Epoch 22/1500
 18/18 F=
                                            0s 4ms/step - loss: 0.6000 - accuracy: 0.6753 - val loss: 0.6051 - val accuracy: 0.7031
Epoch 23/1500
18/18 I
                                            0s 4ms/step - loss: 0.5971 - accuracy: 0.6771 - val loss: 0.6027 - val accuracy: 0.7083
       24/1500
                                                4ms/step - loss: 0.5942 - accuracy: 0.6753 - val loss: 0.6003 - val accuracy: 0.7083
       [=====
25/1500
Epoch
18/18 [==
                                            0s 3ms/step - loss: 0.5914 - accuracy: 0.6719 - val loss: 0.5979 - val accuracy: 0.7083
 Epoch 26/1500
 18/18
                                                4ms/step - loss: 0.5886 - accuracy: 0.6753 - val_loss: 0.5955 - val_accuracy: 0.7083
       27/1500
                                                4ms/step - loss: 0.5859 - accuracy: 0.6736 - val_loss: 0.5931 - val_accuracy: 0.6979
18/18 [=====
Epoch 28/1500
18/18 [==
                                            0s 3ms/step - loss: 0.5831 - accuracy: 0.6771 - val loss: 0.5907 - val accuracy: 0.6979
       29/1500
18/18
                                                3ms/step - loss: 0.5804 - accuracy: 0.6771 - val loss: 0.5884 - val accuracy: 0.6979
        .
30/1500
       31/1500
Epoch
18/18
                                                4ms/step - loss: 0.5749 - accuracy: 0.6806 - val loss: 0.5837 - val accuracy: 0.7031
       32/1500
 Epoch
                                                           loss: 0.5722 - accuracy: 0.6858 - val_loss: 0.5814 - val_accuracy: 0.7031
        33/1500
 Epoch
18/18
                                                          - loss: 0.5694 - accuracy: 0.6875 - val loss: 0.5790 - val accuracy: 0.7031
Epoch
       34/1500
18/18
                                            0s 4ms/step - loss: 0.5667 - accuracy: 0.6927 - val loss: 0.5767 - val accuracy: 0.7031
 Epoch
       35/1500
 18/18
                                               4ms/step - loss: 0.5639 - accuracy: 0.6962 - val_loss: 0.5743 - val_accuracy: 0.6979
18/1.
Epoch 36/1...
18/18 [======
37/1500
                                               4ms/step - loss: 0.5611 - accuracy: 0.7014 - val_loss: 0.5719 - val_accuracy: 0.6979
                                            0s 4ms/step - loss: 0.5584 - accuracy: 0.6979 - val loss: 0.5696 - val accuracy: 0.6979
 Epoch
18/18
       38/1500
                                                3ms/step - loss: 0.5556 -
                                                                           accuracy: 0.6997 - val_loss: 0.5673 - val_accuracy: 0.7031
        L=====
39/1500
 Epoch
18/18
                                                3ms/step - loss: 0.5528 - accuracy: 0.6997 - val_loss: 0.5650 - val_accuracy: 0.7083
18/18 [=====
Epoch 40/1500
18/18 F
                                            0s 4ms/step - loss: 0.5500 - accuracy: 0.7014 - val loss: 0.5628 - val accuracy: 0.7083
       41/1500
 18/18
                                                         - loss: 0.5473 - accuracy: 0.6997 - val loss: 0.5606 - val accuracy: 0.7135
18/1
Epoch 42/1
18/18 [======
10ch 43/1500
                                                           loss: 0.5445 - accuracy: 0.7049 - val loss: 0.5585 - val accuracy: 0.7083
18/16 Epoch 44/15
18/18 [======
13/15/00
                                               4ms/step - loss: 0.5418 - accuracy: 0.7049 - val loss: 0.5564 - val accuracy: 0.7240
                                                           loss: 0.5391 -
                                                                           accuracy: 0.7083 - val_loss: 0.5543 - val_accuracy: 0.7240
                                            0s 3ms/step - loss: 0.5365 - accuracy: 0.7083 - val_loss: 0.5523 - val_accuracy: 0.7135
Epoch 46/1500
18/18 F==
                                            0s 3ms/step - loss: 0.5339 - accuracy: 0.7101 - val loss: 0.5503 - val accuracy: 0.7135
       47/1500
Epoch 47/1500
18/18 [======
Epoch 48/1500
18/18 [======
Epoch 49/1500
                                                5ms/step - loss: 0.5314 - accuracy: 0.7118 - val_loss: 0.5484 - val_accuracy: 0.7135
                                            0s 5ms/step - loss: 0.5290 - accuracy: 0.7135 - val loss: 0.5466 - val accuracy: 0.7135
18/18 F=
                                               3ms/step - loss: 0.5265 - accuracy: 0.7153 - val loss: 0.5448 - val accuracy: 0.7083
       50/1500
 Epoch
18/18
                                                                           accuracy: 0.7205 - val_loss: 0.5431 - val_accuracy: 0.7135
       51/1500
 Epoch 51,
18/18 [==
                                               4ms/step - loss: 0.5218 - accuracy: 0.7222 - val_loss: 0.5414 - val_accuracy: 0.7135
Epoch 52/1500
18/18
                                            0s 5ms/step - loss: 0.5193 - accuracy: 0.7240 - val loss: 0.5398 - val accuracy: 0.7135
       53/1500
       [=====
54/1500
Epoch 54,
18/18 [=
                                                4ms/step - loss: 0.5148 - accuracy: 0.7257 - val_loss: 0.5368 - val_accuracy: 0.7083
       55/1500
Epoch
18/18 F=
                                               4ms/step - loss: 0.5127 - accuracy: 0.7240 - val loss: 0.5354 - val accuracy: 0.7083
        56/1500
                                                         - loss: 0.5106 - accuracy: 0.7240 - val_loss: 0.5340 - val_accuracy: 0.7083
       [=====
57/1500
Epoch
                                            0s 4ms/step - loss: 0.5084 - accuracy: 0.7292 - val loss: 0.5327 - val accuracy: 0.7031
 18/18 [=
Epoch
       58/1500
 18/18
                                            0s 4ms/step - loss: 0.5063 - accuracy: 0.7326 - val loss: 0.5315 - val accuracy: 0.7083
       59/1500
 Epoch
18/18
       60/1500
Epoch
18/18 [=
                                            0s 3ms/step - loss: 0.5021 - accuracy: 0.7344 - val loss: 0.5291 - val accuracy: 0.7135
       61/1500
 Epoch
 .
18/18 Г
                                            0s 4ms/step - loss: 0.5001 - accuracy: 0.7344 - val loss: 0.5280 - val accuracy: 0.7188
       62/1500
                                                4ms/step - loss: 0.4982 - accuracy: 0.7326 - val_loss: 0.5269 - val_accuracy: 0.7240
       [=====
63/1500
                                     ===] - 0s 4ms/step - loss: 0.4963 - accuracy: 0.7326 - val_loss: 0.5258 - val_accuracy: 0.7240
 18/18 [=
 Fnoch 64/1500
 18/18 |
                        ========] - 0s 4ms/step - loss: 0.4943 - accuracy: 0.7361 - val_loss: 0.5248 - val_accuracy: 0.7188
```

	65/1500											
	[=======] 66/1500	-	0s	4ms/step	- loss:	0.4926 -	accuracy:	0.7431 -	· val_loss:	0.5238	- val_accuracy:	0.7188
18/18	[=====================================	-	0s	3ms/step	- loss:	0.4908 -	accuracy:	0.7431 -	val_loss:	0.5228	<pre>- val_accuracy:</pre>	0.7188
18/18	[]	-	0s	4ms/step	- loss:	0.4891 -	accuracy:	0.7465 -	val_loss:	0.5219	- val_accuracy:	0.7135
	68/1500 []	_	0s	4ms/step	- loss:	0.4873 -	accuracy:	0.7500 -	- val_loss:	0.5211	- val_accuracy:	0.7188
Epoch	69/1500 [=======]											
Epoch	70/1500						-		_			
Epoch	[=====================================						-		_			
	[=======] 72/1500	-	0s	4ms/step	- loss:	0.4826 -	accuracy:	0.7587 -	· val_loss:	0.5188	- val_accuracy:	0.7240
18/18	[]	-	0s	4ms/step	- loss:	0.4811 -	accuracy:	0.7622 -	val_loss:	0.5181	- val_accuracy:	0.7240
18/18	73/1500 [========]	-	0s	5ms/step	- loss:	0.4796 -	accuracy:	0.7656 -	val_loss:	0.5174	- val_accuracy:	0.7240
	74/1500 []	_	0s	4ms/step	- loss:	0.4784 -	accuracy:	0.7639 -	- val loss:	0.5168	- val accuracy:	0.7240
Epoch	75/1500 [=======]											
Epoch	76/1500											
	[=====================================	-	0s	4ms/step	- loss:	0.4755 -	accuracy:	0.7691 -	· val_loss:	0.5155	- val_accuracy:	0.7188
	[========] 78/1500	-	0s	3ms/step	- loss:	0.4743 -	accuracy:	0.7674 -	- val_loss:	0.5150	- val_accuracy:	0.7188
18/18	[=======] 79/1500	-	0s	3ms/step	- loss:	0.4731 -	accuracy:	0.7691 -	val_loss:	0.5144	- val_accuracy:	0.7240
18/18	[]	-	0s	4ms/step	- loss:	0.4719 -	accuracy:	0.7708 -	val_loss:	0.5139	- val_accuracy:	0.7240
	80/1500 [========]	_	0s	4ms/step	- loss:	0.4708 -	accuracy:	0.7726 -	- val_loss:	0.5134	- val_accuracy:	0.7240
	81/1500 [======]	_	Оc	Ams/stan	- 1000	0 1695 -	accuracy:	0 7726 -	- val loss:	0 5120	- val accuracy:	0 7240
Epoch	82/1500						-		_			
	[=====================================	-	0s	3ms/step	- loss:	0.4686 -	accuracy:	0.7726 -	· val_loss:	0.5125	- val_accuracy:	0.7240
	[=======] 84/1500	-	0s	4ms/step	- loss:	0.4674 -	accuracy:	0.7708 -	· val_loss:	0.5120	- val_accuracy:	0.7240
18/18	[=======] 85/1500	-	0s	3ms/step	- loss:	0.4665 -	accuracy:	0.7726 -	val_loss:	0.5116	- val_accuracy:	0.7240
18/18	[]	-	0s	3ms/step	- loss:	0.4655 -	accuracy:	0.7760 -	val_loss:	0.5112	- val_accuracy:	0.7240
18/18	86/1500 [==========]	-	0s	3ms/step	- loss:	0.4646 -	accuracy:	0.7726 -	val_loss:	0.5109	- val_accuracy:	0.7240
	87/1500 [=======]	_	0s	4ms/sten	- loss:	0.4636 -	accuracy:	0.7743 -	· val loss:	0.5105	- val accuracy:	0.7240
Epoch	88/1500						-		_			
Epoch	[=====================================											
	[============] 90/1500	-	0s	5ms/step	- loss:	0.4620 -	accuracy:	0.7743 -	· val_loss:	0.5099	- val_accuracy:	0.7240
18/18	[=======] 91/1500	-	0s	4ms/step	- loss:	0.4609 -	accuracy:	0.7743 -	val_loss:	0.5097	- val_accuracy:	0.7240
18/18	[]	-	0s	4ms/step	- loss:	0.4602 -	accuracy:	0.7743 -	val_loss:	0.5094	- val_accuracy:	0.7240
	92/1500 [=========]	-	0s	4ms/step	- loss:	0.4594 -	accuracy:	0.7778 -	val_loss:	0.5092	- val_accuracy:	0.7240
	93/1500 []	_	0s	4ms/step	- loss:	0.4586 -	accuracy:	0.7812 -	- val loss:	0.5089	- val accuracy:	0.7240
Epoch	94/1500 [=======]											
Epoch	95/1500						-		_			
	[=====================================	-	0s	4ms/step	- loss:	0.4572 -	accuracy:	0.7760 -	· val_loss:	0.5085	- val_accuracy:	0.7240
	[=======] 97/1500	-	0s	4ms/step	- loss:	0.4564 -	accuracy:	0.7726 -	val_loss:	0.5083	- val_accuracy:	0.7240
18/18	[]	-	0s	3ms/step	- loss:	0.4559 -	accuracy:	0.7743 -	val_loss:	0.5082	- val_accuracy:	0.7240
18/18	98/1500 [=======]	-	0s	4ms/step	- loss:	0.4552 -	accuracy:	0.7743 -	val_loss:	0.5080	- val_accuracy:	0.7240
	99/1500 []	_	0s	5ms/step	- loss:	0.4546 -	accuracy:	0.7778 -	- val_loss:	0.5079	- val_accuracy:	0.7292
	100/1500	_	0s	3ms/sten	- loss:	0.4540 -	accuracy:	0.7812 -	· val loss:	0.5078	- val accuracy:	0.7292
Epoch	101/1500											
Epoch	[=======] 102/1500											
	[==========] 103/1500	-	0s	5ms/step	- loss:	0.4527 -	accuracy:	0.7830 -	· val_loss:	0.5076	- val_accuracy:	0.7240
	[========] 104/1500	-	0s	3ms/step	- loss:	0.4523 -	accuracy:	0.7830 -	val_loss:	0.5075	- val_accuracy:	0.7240
18/18	[]	-	0s	4ms/step	- loss:	0.4516 -	accuracy:	0.7812 -	val_loss:	0.5074	- val_accuracy:	0.7240
18/18	105/1500 [=======]	-	0s	4ms/step	- loss:	0.4512 -	accuracy:	0.7778 -	val_loss:	0.5074	- val_accuracy:	0.7292
	106/1500 []	_	0s	4ms/step	- loss:	0.4507 -	accuracy:	0.7812 -	- val_loss:	0.5073	- val_accuracy:	0.7292
Epoch	107/1500 []											
Epoch	108/1500											
	[============] 109/1500	-	0s	4ms/step	- loss:	0.4497 -	accuracy:	0.7830 -	· val_loss:	0.5072	- val_accuracy:	0.7292
	[=======] 110/1500	-	0s	3ms/step	- loss:	0.4492 -	accuracy:	0.7865 -	· val_loss:	0.5072	- val_accuracy:	0.7344
18/18	[=======] 111/1500	-	0s	5ms/step	- loss:	0.4489 -	accuracy:	0.7847 -	val_loss:	0.5072	<pre>- val_accuracy:</pre>	0.7344
18/18	[]	-	0s	4ms/step	- loss:	0.4483 -	accuracy:	0.7865 -	val_loss:	0.5072	- val_accuracy:	0.7344
	112/1500 []	-	0s	3ms/step	- loss:	0.4480 -	accuracy:	0.7847 -	val_loss:	0.5072	- val_accuracy:	0.7344
	113/1500 []	_	0s	3ms/step	- loss:	0.4476 -	accuracy:	0.7865 -	- val_loss:	0.5072	- val_accuracv:	0.7344
Epoch	114/1500 [=======]						-		_			
Epoch	115/1500											
	[========] 116/1500	-	0s	5ms/step	- 10SS:	v.4469 -	accuracy:	0.7847 -	- vai_loss:	0.5072	- val_accuracy:	ø.7344
18/18	[========] 117/1500	-	0s	4ms/step	- loss:	0.4465 -	accuracy:	0.7830 -	val_loss:	0.5072	- val_accuracy:	0.7344
18/18	[]	-	0s	4ms/step	- loss:	0.4460 -	accuracy:	0.7882 -	val_loss:	0.5073	- val_accuracy:	0.7344
18/18	118/1500 [=======]	-	0s	3ms/step	- loss:	0.4457 -	accuracy:	0.7830 -	val_loss:	0.5073	- val_accuracy:	0.7344
	119/1500 []	-	0s	3ms/step	- loss:	0.4454 -	accuracy:	0.7847 -	- val_loss:	0.5074	- val_accuracy:	0.7344
Epoch	120/1500 [=======]						-		_			
Epoch	121/1500						-		_			
Epoch	[========] 122/1500						-		_			
18/18	[=======] 123/1500	-	0s	4ms/step	- loss:	0.4444 -	accuracy:	0.7865 -	val_loss:	0.5075	- val_accuracy:	0.7344
18/18	[=======] 124/1500	-	0s	4ms/step	- loss:	0.4442 -	accuracy:	0.7865 -	val_loss:	0.5075	- val_accuracy:	0.7396
18/18	[]	-	0s	4ms/step	- loss:	0.4439 -	accuracy:	0.7865 -	val_loss:	0.5076	- val_accuracy:	0.7396
18/18	125/1500 [========]	-	0s	4ms/step	- loss:	0.4435 -	accuracy:	0.7882 -	- val_loss:	0.5077	- val_accuracy:	0.7396
Epoch	126/1500 [======]											
Epoch	[======] 127/1500 [========]						-		_			
Epoch	128/1500								_			
18/18	[]	-	0s	4ms/step	- loss:	0.4426 -	accuracy:	0.7899 -	· val_loss:	0.5078	- val_accuracy:	0.7448

	129/1500		a.c	Emc/ston	loss	0 4422	accupacy:	a 7002	val loss:	0 5070	val accumacy:	0 7440
Epoch	130/1500						,		-		_ ′	
Epoch	[=======] 131/1500											
	[=========] 132/1500	-	0s	3ms/step	- loss:	0.4417 -	accuracy:	0.7899 -	val_loss:	0.5080	- val_accuracy:	0.7448
	[=======] 133/1500	-	0s	4ms/step	- loss:	0.4413 -	accuracy:	0.7899 -	val_loss:	0.5080	- val_accuracy:	0.7448
	[=======] 134/1500	-	0s	4ms/step	- loss:	0.4412 -	accuracy:	0.7899 -	val_loss:	0.5080	- val_accuracy:	0.7448
18/18	[]	-	0s	4ms/step	- loss:	0.4411 -	accuracy:	0.7899 -	val_loss:	0.5080	- val_accuracy:	0.7448
18/18	135/1500 [======]	-	0s	5ms/step	- loss:	0.4404 -	accuracy:	0.7934 -	val_loss:	0.5081	- val_accuracy:	0.7500
	136/1500	-	0s	5ms/step	- loss:	0.4402 -	accuracy:	0.7934 -	val_loss:	0.5081	- val_accuracy:	0.7500
	137/1500	-	0s	6ms/step	- loss:	0.4400 -	accuracy:	0.7951 -	val loss:	0.5081	- val accuracy:	0.7500
Epoch	138/1500											
Epoch	139/1500						-		_			
Epoch	[======] 140/1500											
Epoch	[=======] 141/1500											
	[=========] 142/1500	-	0s	5ms/step	- loss:	0.4389 -	accuracy:	0.7969 -	val_loss:	0.5082	- val_accuracy:	0.7552
	[=======] 143/1500	-	0s	7ms/step	- loss:	0.4387 -	accuracy:	0.7969 -	val_loss:	0.5083	- val_accuracy:	0.7552
18/18	[=======] 144/1500	-	0s	5ms/step	- loss:	0.4386 -	accuracy:	0.7969 -	val_loss:	0.5082	<pre>- val_accuracy:</pre>	0.7552
18/18	[]	-	0s	4ms/step	- loss:	0.4383 -	accuracy:	0.7951 -	val_loss:	0.5083	- val_accuracy:	0.7552
18/18	145/1500 [=======]	-	0s	5ms/step	- loss:	0.4380 -	accuracy:	0.7969 -	val_loss:	0.5084	- val_accuracy:	0.7552
18/18	146/1500	-	0s	6ms/step	- loss:	0.4377 -	accuracy:	0.7969 -	val_loss:	0.5084	- val_accuracy:	0.7552
	147/1500	-	0s	5ms/step	- loss:	0.4374 -	accuracy:	0.7969 -	val_loss:	0.5085	- val_accuracy:	0.7552
	148/1500	l -	0s	5ms/step	- loss:	0.4373 -	accuracy:	0.7969 -	val loss:	0.5086	- val accuracv:	0.7552
Epoch	149/1500 [=======]						-		_			
Epoch	[] 150/1500 []											
Epoch	151/1500						,		-		_ ′	
Epoch	[========] 152/1500						-		_			
	[=========] 153/1500	-	0s	5ms/step	- loss:	0.4365 -	accuracy:	0.7917 -	val_loss:	0.5089	- val_accuracy:	0.7552
	[======] 154/1500	-	0s	5ms/step	- loss:	0.4363 -	accuracy:	0.7951 -	val_loss:	0.5090	- val_accuracy:	0.7552
18/18	[======] 155/1500	-	0s	5ms/step	- loss:	0.4362 -	accuracy:	0.7969 -	val_loss:	0.5091	<pre>- val_accuracy:</pre>	0.7552
18/18	[]	-	0s	6ms/step	- loss:	0.4357 -	accuracy:	0.7969 -	val_loss:	0.5092	- val_accuracy:	0.7552
18/18	156/1500 [=======]	-	0s	5ms/step	- loss:	0.4355 -	accuracy:	0.7969 -	val_loss:	0.5093	- val_accuracy:	0.7552
18/18	157/1500 []	-	0s	4ms/step	- loss:	0.4354 -	accuracy:	0.7951 -	val_loss:	0.5093	- val_accuracy:	0.7500
	158/1500 []	-	0s	5ms/step	- loss:	0.4352 -	accuracy:	0.7969 -	val_loss:	0.5094	- val_accuracy:	0.7500
	159/1500	-	0s	5ms/step	- loss:	0.4350 -	accuracy:	0.7917 -	val_loss:	0.5095	- val_accuracy:	0.7500
	160/1500 [======]	· -	0s	5ms/sten	- loss:	0.4350 -	accuracy:	0.7969 -	val loss:	0.5096	- val accuracy:	0.7500
Epoch	161/1500 [=======]						-		_			
Epoch	162/1500						-		_			
Epoch	[======] 163/1500											
	[========] 164/1500	-	0s	5ms/step	- loss:	0.4343 -	accuracy:	0.7917 -	val_loss:	0.5099	- val_accuracy:	0.7500
	[======] 165/1500	-	0s	6ms/step	- loss:	0.4340 -	accuracy:	0.7934 -	val_loss:	0.5100	- val_accuracy:	0.7500
	[=======] 166/1500	-	0s	6ms/step	- loss:	0.4338 -	accuracy:	0.7969 -	val_loss:	0.5101	- val_accuracy:	0.7500
18/18	[======] 167/1500	-	0s	6ms/step	- loss:	0.4336 -	accuracy:	0.7951 -	val_loss:	0.5101	<pre>- val_accuracy:</pre>	0.7500
18/18	[]	-	0s	5ms/step	- loss:	0.4336 -	accuracy:	0.7951 -	val_loss:	0.5102	- val_accuracy:	0.7500
18/18	168/1500 [=======]	-	0s	5ms/step	- loss:	0.4333 -	accuracy:	0.7969 -	val_loss:	0.5102	- val_accuracy:	0.7500
18/18	169/1500 [======]	-	0s	7ms/step	- loss:	0.4331 -	accuracy:	0.7951 -	val_loss:	0.5103	- val_accuracy:	0.7500
	170/1500	-	0s	5ms/step	- loss:	0.4328 -	accuracy:	0.7934 -	val_loss:	0.5103	- val_accuracy:	0.7500
	171/1500	-	0s	8ms/step	- loss:	0.4327 -	accuracy:	0.7934 -	val_loss:	0.5104	- val_accuracy:	0.7500
Epoch	172/1500 [======]											
Epoch	173/1500 []											
Epoch	174/1500											
Epoch	[=======] 175/1500						-		_			
	[=====================================	-	0s	4ms/step	- loss:	0.4319 -	accuracy:	0.7917 -	val_loss:	0.5106	- val_accuracy:	0.7500
	[======] 177/1500	-	0s	4ms/step	- loss:	0.4317 -	accuracy:	0.7917 -	val_loss:	0.5107	- val_accuracy:	0.7500
	[=======] 178/1500	-	0s	4ms/step	- loss:	0.4314 -	accuracy:	0.7934 -	val_loss:	0.5108	- val_accuracy:	0.7500
18/18	[======] 179/1500	-	0s	4ms/step	- loss:	0.4312 -	accuracy:	0.7917 -	val_loss:	0.5109	- val_accuracy:	0.7500
18/18	[]	-	0s	5ms/step	- loss:	0.4310 -	accuracy:	0.7969 -	val_loss:	0.5109	- val_accuracy:	0.7500
18/18	180/1500 []	-	0s	4ms/step	- loss:	0.4308 -	accuracy:	0.7951 -	val_loss:	0.5110	- val_accuracy:	0.7500
	181/1500 [========]	-	0s	4ms/step	- loss:	0.4307 -	accuracy:	0.7934 -	val_loss:	0.5110	- val_accuracy:	0.7448
Epoch	182/1500 [======]											
Epoch	183/1500 [=======]						-		_			
Epoch	184/1500						-		_			
Epoch	[======] 185/1500						-		_			
Epoch	[======] 186/1500											
18/18 Epoch	[=======] 187/1500											
18/18	[=======] 188/1500	-	0s	4ms/step	- loss:	0.4295 -	accuracy:	0.7969 -	val_loss:	0.5115	- val_accuracy:	0.7448
18/18	[=======] 189/1500	-	0s	4ms/step	- loss:	0.4295 -	accuracy:	0.7986 -	val_loss:	0.5115	- val_accuracy:	0.7448
18/18	[]	-	0s	4ms/step	- loss:	0.4291 -	accuracy:	0.7986 -	val_loss:	0.5116	- val_accuracy:	0.7448
18/18	190/1500 []	-	0s	4ms/step	- loss:	0.4291 -	accuracy:	0.7969 -	val_loss:	0.5118	- val_accuracy:	0.7448
18/18	191/1500 [======]	-	0s	5ms/step	- loss:	0.4288 -	accuracy:	0.7986 -	val_loss:	0.5119	- val_accuracy:	0.7448
	192/1500	-	0s	4ms/step	- loss:	0.4286 -	accuracy:	0.7986 -	val_loss:	0.5120	- val_accuracv:	0.7448
											,.	

	193/1500 []	-	0s	4ms/step	-	loss:	0.4284 -	- a	accuracy:	0.7969 -	val_loss:	0.5121 -	val_accuracy:	0.7448
	194/1500	_	0s	4ms/step	_	loss:	0.4282 -	- a	accuracy:	0.8003 -	val_loss:	0.5122 -	val_accuracy:	0.7448
	195/1500	_	0s	4ms/step	_	loss:	0.4280 -	- a	accuracy:	0.8021 -	val loss:	0.5123 -	val accuracy:	0.7448
Epoch	196/1500 [=======]													
Epoch	197/1500 []								-		_			
Epoch	198/1500													
Epoch	[=======] 199/1500													
	[========] 200/1500	-	0s	4ms/step	-	loss:	0.4273 -	- a	accuracy:	0.8021 -	val_loss:	0.5130 -	val_accuracy:	0.7448
18/18	[======] 201/1500	-	0s	4ms/step	-	loss:	0.4271 -	- a	accuracy:	0.7986 -	val_loss:	0.5131 -	val_accuracy:	0.7396
18/18	[=======] 202/1500	-	0s	4ms/step	-	loss:	0.4271 -	- a	accuracy:	0.8038 -	val_loss:	0.5131 -	val_accuracy:	0.7396
18/18	[]	-	0s	4ms/step	-	loss:	0.4269 -	- a	accuracy:	0.8021 -	val_loss:	0.5133 -	val_accuracy:	0.7396
18/18	203/1500 [=======]	-	0s	4ms/step	-	loss:	0.4267 -	- a	accuracy:	0.8021 -	val_loss:	0.5134 -	val_accuracy:	0.7396
18/18	204/1500 []	-	0s	4ms/step	-	loss:	0.4265 -	- a	accuracy:	0.8021 -	val_loss:	0.5135 -	val_accuracy:	0.7396
	205/1500 [========]	-	0s	4ms/step	-	loss:	0.4264 -	- a	accuracy:	0.8038 -	val_loss:	0.5136 -	val_accuracy:	0.7396
	206/1500	_	0s	4ms/step	_	loss:	0.4262 -	- a	accuracy:	0.8003 -	val loss:	0.5138 -	val accuracy:	0.7396
Epoch	207/1500 []													
Epoch	208/1500													
Epoch	[======] 209/1500													
Epoch	[=======] 210/1500								-		_			
	[=======] 211/1500	-	0s	3ms/step	-	loss:	0.4256 -	- a	accuracy:	0.8003 -	val_loss:	0.5144 -	val_accuracy:	0.7396
	[========] 212/1500	-	0s	4ms/step	-	loss:	0.4254 -	- a	accuracy:	0.8003 -	val_loss:	0.5145 -	val_accuracy:	0.7396
	[======] 213/1500	-	0s	4ms/step	-	loss:	0.4254 -	- a	accuracy:	0.8021 -	val_loss:	0.5147 -	val_accuracy:	0.7396
18/18	[=======] 214/1500	-	0s	4ms/step	-	loss:	0.4252 -	- a	accuracy:	0.8038 -	val_loss:	0.5147 -	val_accuracy:	0.7396
18/18	[]	-	0s	5ms/step	-	loss:	0.4251 -	- a	accuracy:	0.7986 -	val_loss:	0.5148 -	val_accuracy:	0.7396
18/18	215/1500 [======]	-	0s	3ms/step	-	loss:	0.4252 -	- a	accuracy:	0.8021 -	val_loss:	0.5148 -	val_accuracy:	0.7396
18/18	216/1500 []	-	0s	4ms/step	-	loss:	0.4246 -	- a	accuracy:	0.7986 -	val_loss:	0.5149 -	val_accuracy:	0.7396
	217/1500 [=======]	-	0s	4ms/step	_	loss:	0.4245 -	- a	accuracy:	0.8056 -	val_loss:	0.5149 -	val_accuracy:	0.7344
	218/1500	_	0s	4ms/step	_	loss:	0.4244 -	- a	accuracy:	0.7986 -	val loss:	0.5150 -	val accuracy:	0.7344
Epoch	219/1500 []													
Epoch	220/1500 []													
Epoch	221/1500													
Epoch	[======] 222/1500													
Epoch	[=======] 223/1500													
	[========] 224/1500	-	0s	4ms/step	-	loss:	0.4235 -	- a	accuracy:	0.7986 -	val_loss:	0.5157 -	val_accuracy:	0.7344
	[======] 225/1500	-	0s	4ms/step	-	loss:	0.4235 -	- a	accuracy:	0.8003 -	val_loss:	0.5158 -	val_accuracy:	0.7344
18/18	[======] 226/1500	-	0s	4ms/step	-	loss:	0.4234 -	- a	accuracy:	0.8003 -	val_loss:	0.5159 -	val_accuracy:	0.7344
18/18	[]	-	0s	4ms/step	-	loss:	0.4231 -	- a	accuracy:	0.8038 -	val_loss:	0.5159 -	val_accuracy:	0.7344
18/18	227/1500	-	0s	4ms/step	-	loss:	0.4229 -	- a	accuracy:	0.7986 -	val_loss:	0.5161 -	val_accuracy:	0.7344
18/18	228/1500 [======]	-	0s	4ms/step	-	loss:	0.4229 -	- a	accuracy:	0.8021 -	val_loss:	0.5162 -	val_accuracy:	0.7344
18/18	229/1500 []	-	0s	4ms/step	-	loss:	0.4227 -	- a	accuracy:	0.8003 -	val_loss:	0.5164 -	val_accuracy:	0.7344
	230/1500 [=======]	-	0s	4ms/step	-	loss:	0.4227 -	- a	accuracy:	0.8003 -	val_loss:	0.5164 -	val_accuracy:	0.7344
	231/1500	_	0s	3ms/step	_	loss:	0.4223 -	- a	accuracy:	0.8073 -	val_loss:	0.5164 -	val_accuracy:	0.7344
	232/1500	_	0s	3ms/step	_	loss:	0.4223 -	- a	accuracv:	0.8003 -	val loss:	0.5165 -	val accuracy:	0.7344
Epoch	233/1500													
Epoch	234/1500								-		_			
Epoch	[=======] 235/1500													
Epoch	[=======] 236/1500													
	[======] 237/1500	-	0s	4ms/step	-	loss:	0.4217 -	- a	accuracy:	0.8003 -	val_loss:	0.5169 -	val_accuracy:	0.7344
	[======] 238/1500	-	0s	5ms/step	-	loss:	0.4217 -	- a	accuracy:	0.8038 -	val_loss:	0.5171 -	val_accuracy:	0.7344
18/18	[======] 239/1500	-	0s	4ms/step	-	loss:	0.4214 -	- a	accuracy:	0.8038 -	val_loss:	0.5171 -	val_accuracy:	0.7344
18/18	[]	-	0s	4ms/step	-	loss:	0.4211 -	- a	accuracy:	0.8021 -	val_loss:	0.5172 -	val_accuracy:	0.7344
18/18	240/1500 [======]	-	0s	4ms/step	-	loss:	0.4210 -	- a	accuracy:	0.8056 -	val_loss:	0.5173 -	val_accuracy:	0.7344
18/18	241/1500 []	-	0s	4ms/step	-	loss:	0.4213 -	- a	accuracy:	0.8056 -	val_loss:	0.5174 -	val_accuracy:	0.7344
	242/1500 []	_	0s	4ms/step	_	loss:	0.4210 -	- a	accuracy:	0.8056 -	val_loss:	0.5175 -	val_accuracy:	0.7344
	243/1500 [=======]	_	0s	4ms/step	_	loss:	0.4211 -	- a	accuracy:	0.8056 -	val loss:	0.5175 -	val accuracy:	0.7344
Epoch	244/1500 [======]													
Epoch	245/1500 [======]								-		_			
Epoch	246/1500													
Epoch	[=======] 247/1500								-		_			
	[========] 248/1500	-	0s	4ms/step	-	loss:	0.4204 -	- a	accuracy:	0.8021 -	val_loss:	0.5181 -	val_accuracy:	0.7344
18/18	[=======] 249/1500	-	0s	3ms/step	-	loss:	0.4201 -	- a	accuracy:	0.8056 -	val_loss:	0.5181 -	val_accuracy:	0.7344
18/18	[=======] 250/1500	-	0s	4ms/step	-	loss:	0.4200 -	- a	accuracy:	0.8038 -	val_loss:	0.5184 -	val_accuracy:	0.7344
18/18	[]	-	0s	4ms/step	-	loss:	0.4199 -	- a	accuracy:	0.8038 -	val_loss:	0.5186 -	val_accuracy:	0.7344
18/18	251/1500 []	-	0s	4ms/step	-	loss:	0.4198 -	- a	accuracy:	0.8038 -	val_loss:	0.5187 -	val_accuracy:	0.7344
18/18	252/1500 [======]	-	0s	4ms/step	-	loss:	0.4197 -	- a	accuracy:	0.8108 -	val_loss:	0.5187 -	val_accuracy:	0.7292
18/18	253/1500 []	-	0s	3ms/step	-	loss:	0.4195 -	- a	accuracy:	0.8056 -	val_loss:	0.5187 -	val_accuracy:	0.7292
Epoch	254/1500 [======]													
Epoch	255/1500 [=======]													
Epoch	256/1500								-		_			
18/18	[]	-	US	4ms/step	-	TOSS:	v.4193 -	- a	accuracy:	U.8073 -	var_loss:	0.5190 -	val_accuracy:	Ø.7292

	257/1500				_							
Epoch	[=====================================						-		_			
	[========] 259/1500	-	0s	4ms/step	- loss:	0.4190 -	accuracy:	0.8056 -	val_loss:	0.5192 -	· val_accuracy:	0.7292
18/18	[========] 260/1500	-	0s	4ms/step	- loss:	0.4188 -	accuracy:	0.8038 -	val_loss:	0.5193 -	val_accuracy:	0.7292
18/18	[]	-	0s	4ms/step	- loss:	0.4187 -	accuracy:	0.8038 -	val_loss:	0.5194 -	val_accuracy:	0.7292
18/18	261/1500 [=======]	-	0s	4ms/step	- loss:	0.4186 -	accuracy:	0.8038 -	val_loss:	0.5194	val_accuracy:	0.7292
18/18	262/1500 [=======]	-	0s	4ms/step	- loss:	0.4185 -	accuracy:	0.8056 -	val_loss:	0.5196 -	val_accuracy:	0.7292
	263/1500 [========]	-	0s	4ms/step	- loss:	0.4184 -	accuracy:	0.8038 -	val_loss:	0.5197 -	val_accuracy:	0.7292
	264/1500	_	0s	4ms/step	- loss:	0.4184 -	accuracy:	0.8056 -	val loss:	0.5198 -	· val accuracv:	0.7240
Epoch	265/1500 [=======]						-		_			
Epoch	266/1500											
Epoch	[=======] 267/1500											
	[=======] 268/1500	-	0s	3ms/step	- loss:	0.4181 -	accuracy:	0.8056 -	val_loss:	0.5201 -	· val_accuracy:	0.7240
	[=====================================	-	0s	3ms/step	- loss:	0.4178 -	accuracy:	0.8056 -	val_loss:	0.5202 -	· val_accuracy:	0.7240
	[=======] 270/1500	-	0s	4ms/step	- loss:	0.4178 -	accuracy:	0.8056 -	val_loss:	0.5203 -	val_accuracy:	0.7240
18/18	[=====================================	-	0s	4ms/step	- loss:	0.4177 -	accuracy:	0.8073 -	val_loss:	0.5203 -	val_accuracy:	0.7240
18/18	[=======] 272/1500	-	0s	4ms/step	- loss:	0.4175 -	accuracy:	0.8038 -	val_loss:	0.5204 -	val_accuracy:	0.7240
18/18	[]	-	0s	4ms/step	- loss:	0.4175 -	accuracy:	0.8056 -	val_loss:	0.5204	val_accuracy:	0.7240
18/18	273/1500 [======]	-	0s	4ms/step	- loss:	0.4174 -	accuracy:	0.8073 -	val_loss:	0.5205 -	val_accuracy:	0.7240
18/18	274/1500 [=======]	-	0s	4ms/step	- loss:	0.4173 -	accuracy:	0.8073 -	val_loss:	0.5205 -	val_accuracy:	0.7240
	275/1500 []	_	0s	4ms/step	- loss:	0.4172 -	accuracy:	0.8073 -	val_loss:	0.5207 -	· val_accuracy:	0.7240
Epoch	276/1500 [======]											
Epoch	277/1500 [=======]						-		_			
Epoch	278/1500											
Epoch	[=======] 279/1500						-		_			
Epoch	[========] 280/1500						-		_			
	[=========] 281/1500	-	0s	4ms/step	- loss:	0.4167 -	accuracy:	0.8056 -	val_loss:	0.5210 -	· val_accuracy:	0.7292
	[======] 282/1500	-	0s	4ms/step	- loss:	0.4165 -	accuracy:	0.8056 -	val_loss:	0.5211 -	val_accuracy:	0.7292
18/18	[=======] 283/1500	-	0s	5ms/step	- loss:	0.4165 -	accuracy:	0.8073 -	val_loss:	0.5212 -	val_accuracy:	0.7292
18/18	[]	-	0s	4ms/step	- loss:	0.4164 -	accuracy:	0.8073 -	val_loss:	0.5213 -	val_accuracy:	0.7292
18/18	284/1500 [=======]	-	0s	4ms/step	- loss:	0.4163 -	accuracy:	0.8073 -	val_loss:	0.5213 -	val_accuracy:	0.7292
18/18	285/1500 [======]	-	0s	4ms/step	- loss:	0.4161 -	accuracy:	0.8073 -	val_loss:	0.5215 -	val_accuracy:	0.7292
18/18	286/1500 []	-	0s	4ms/step	- loss:	0.4161 -	accuracy:	0.8056 -	val_loss:	0.5216 -	val_accuracy:	0.7292
	287/1500 []	_	0s	4ms/step	- loss:	0.4160 -	accuracy:	0.8073 -	val_loss:	0.5217 -	· val_accuracy:	0.7292
	288/1500	_	0s	4ms/step	- loss:	0.4160 -	accuracy:	0.8073 -	val loss:	0.5218 -	· val accuracy:	0.7292
Epoch	289/1500 [======]						-		_			
Epoch	290/1500 [=======]											
Epoch	291/1500						-		_			
Epoch	[======] 292/1500						-		_			
Epoch	[======] 293/1500											
Epoch	[=======] 294/1500											
	[======] 295/1500	-	0s	4ms/step	- loss:	0.4154 -	accuracy:	0.8056 -	val_loss:	0.5223 -	· val_accuracy:	0.7344
	[=======] 296/1500	-	0s	4ms/step	- loss:	0.4153 -	accuracy:	0.8073 -	val_loss:	0.5224 -	val_accuracy:	0.7344
18/18	[=======] 297/1500	-	0s	4ms/step	- loss:	0.4151 -	accuracy:	0.8090 -	val_loss:	0.5225 -	val_accuracy:	0.7344
18/18	[]	-	0s	4ms/step	- loss:	0.4152 -	accuracy:	0.8056 -	val_loss:	0.5224 -	val_accuracy:	0.7344
18/18	298/1500 [=======]	-	0s	4ms/step	- loss:	0.4150 -	accuracy:	0.8090 -	val_loss:	0.5225 -	val_accuracy:	0.7344
18/18	299/1500 [=======]	-	0s	4ms/step	- loss:	0.4150 -	accuracy:	0.8090 -	val_loss:	0.5224 -	val_accuracy:	0.7344
	300/1500 [========]	-	0s	5ms/step	- loss:	0.4148 -	accuracy:	0.8108 -	val_loss:	0.5223 -	val_accuracy:	0.7344
	301/1500	_	0s	5ms/step	- loss:	0.4148 -	accuracy:	0.8090 -	val_loss:	0.5223 -	· val_accuracy:	0.7344
	302/1500	_	0s	7ms/step	- loss:	0.4147 -	accuracy:	0.8090 -	val loss:	0.5224 -	· val accuracv:	0.7344
Epoch	303/1500						-		_			
Epoch	304/1500						-		_			
Epoch	[======] 305/1500						-		_			
Epoch	[========] 306/1500						-		_			
	[=========] 307/1500	-	0s	5ms/step	- loss:	0.4144 -	accuracy:	0.8090 -	val_loss:	0.5228 -	· val_accuracy:	0.7344
	[======] 308/1500	-	0s	7ms/step	- loss:	0.4145 -	accuracy:	0.8108 -	val_loss:	0.5230 -	· val_accuracy:	0.7344
18/18	[=====================================	-	0s	6ms/step	- loss:	0.4144 -	accuracy:	0.8090 -	val_loss:	0.5230 -	val_accuracy:	0.7292
18/18	[=======] 310/1500	-	0s	6ms/step	- loss:	0.4144 -	accuracy:	0.8090 -	val_loss:	0.5230 -	val_accuracy:	0.7292
18/18	[]	-	0s	6ms/step	- loss:	0.4142 -	accuracy:	0.8108 -	val_loss:	0.5230 -	val_accuracy:	0.7344
18/18	311/1500 []	-	0s	6ms/step	- loss:	0.4143 -	accuracy:	0.8090 -	val_loss:	0.5230 -	val_accuracy:	0.7344
18/18	312/1500	-	0s	5ms/step	- loss:	0.4141 -	accuracy:	0.8108 -	val_loss:	0.5231 -	· val_accuracy:	0.7344
Epoch 18/18	313/1500 [=======]											
Epoch	314/1500 []											
Epoch	[] 315/1500 []											
Epoch	316/1500											
Epoch	[======] 317/1500											
Epoch	[======] 318/1500											
Epoch	[======] 319/1500						-		_			
18/18	[=======] 320/1500	-	0s	5ms/step	- loss:	0.4137 -	accuracy:	0.8090 -	val_loss:	0.5236 -	val_accuracy:	0.7396
	[======]	-	0s	5ms/step	- loss:	0.4133 -	accuracy:	0.8108 -	val_loss:	0.5237 -	val_accuracy:	0.7396

```
Epoch 321/1500
                                          0s 6ms/step - loss: 0.4134 - accuracy: 0.8108 - val_loss: 0.5238 - val_accuracy: 0.7396
18/18 [==
Epoch 322/1500
18/18
                                             6ms/step - loss: 0.4134 - accuracy: 0.8108 - val loss: 0.5238 - val accuracy: 0.7396
      323/1500
Epoch
18/18
                                                s/step - loss: 0.4132 - accuracy: 0.8108 - val_loss: 0.5239 - val_accuracy: 0.7396
      324/1500
18/18 [=====
Epoch 325/1500
                                             6ms/step - loss: 0.4132 - accuracy: 0.8090 - val_loss: 0.5240 - val_accuracy: 0.7396
18/18
                                             5ms/sten - loss: 0.4131 - accuracy: 0.8125 - val loss: 0.5241 - val accuracy: 0.7396
      326/1500
Epoch
18/18
Epoch
18/18
                                                         loss: 0.4129 - accuracy: 0.8125 - val loss: 0.5242 - val accuracy: 0.7396
Epoch
      328/1500
18/18
                                             6ms/step - loss: 0.4131 - accuracy: 0.8108 - val loss: 0.5242 - val accuracy: 0.7396
      329/1500
Epoch
18/18
                                                         loss: 0.4128 -
      [======
330/1500
                                             6ms/step - loss: 0.4128 - accuracy: 0.8090 - val_loss: 0.5243 - val_accuracy: 0.7396
18/18
Epoch
      331/1500
18/18
                                             6ms/step - loss: 0.4128 - accuracy: 0.8108 - val loss: 0.5244 - val accuracy: 0.7396
      332/1500
                                             7ms/step - loss: 0.4127 - accuracy: 0.8108 - val_loss: 0.5244 - val_accuracy: 0.7396
      333/1500
Epoch
18/18
                                             6ms/step - loss: 0.4127 - accuracy: 0.8090 - val loss: 0.5243 - val accuracy: 0.7396
Epoch
18/18
      334/1500
                                             6ms/step - loss: 0.4125 - accuracy: 0.8108 - val loss: 0.5243 - val accuracy: 0.7396
Epoch
18/18
      335/1500
      336/1500
Epoch
18/18
                                             6ms/step - loss: 0.4125 - accuracy: 0.8108 - val loss: 0.5245 - val accuracy: 0.7396
      337/1500
Epoch
18/18
                                             5ms/step - loss: 0.4124 - accuracy: 0.8142 - val loss: 0.5244 - val accuracy: 0.7396
      .
338/1500
      [===--
339/1500
Epoch
18/18
                                             7ms/step - loss: 0.4123 - accuracy: 0.8108 - val_loss: 0.5247 - val_accuracy: 0.7344
      340/1500
Epoch
18/18
                                             9ms/step - loss: 0.4123 - accuracy: 0.8108 - val_loss: 0.5247 - val_accuracy: 0.7344
      341/1500
                                                         loss: 0.4122 - accuracy: 0.8108
                                                                                          - val_loss: 0.5248
Epoch
      342/1500
18/18
                                             8ms/step - loss: 0.4121 - accuracy: 0.8125 - val loss: 0.5248 - val accuracy: 0.7344
Epoch
      343/1500
18/18
                                             9ms/step - loss: 0.4120 - accuracy: 0.8125 - val loss: 0.5247 - val accuracy: 0.7344
      344/1500
                                             9ms/step - loss: 0.4120 - accuracy: 0.8108 - val loss: 0.5249 - val accuracy: 0.7344
      345/1500
Epoch
18/18 [==
                                             8ms/step - loss: 0.4119 - accuracy: 0.8108 - val loss: 0.5249 - val accuracy: 0.7344
      346/1500
18/18
                                                       - loss: 0.4118 - accuracy: 0.8142 - val_loss: 0.5248 - val_accuracy: 0.7344
      1
347/1500
                                                         loss: 0.4116 - accuracy: 0.8142 - val_loss: 0.5248 - val_accuracy: 0.7344
      [=====
348/1500
Epoch
18/18 [==
                                             8ms/step - loss: 0.4115 - accuracy: 0.8125 - val loss: 0.5249 - val accuracy: 0.7344
      349/1500
18/18
                                             9ms/step - loss: 0.4116 - accuracy: 0.8125 - val_loss: 0.5249 - val_accuracy: 0.7344
      .
350/1500
      351/1500
Epoch
18/18
                                             8ms/step - loss: 0.4114 - accuracy: 0.8108 - val loss: 0.5249 - val accuracy: 0.7344
      352/1500
Epoch
                                                         loss: 0.4113 - accuracy: 0.8108 - val_loss: 0.5250 - val_accuracy: 0.7344
      353/1500
Epoch
18/18
                                                       - loss: 0.4113 - accuracy: 0.8125 - val loss: 0.5250 - val accuracy: 0.7344
Epoch
      354/1500
18/18
                                             8ms/step - loss: 0.4114 - accuracy: 0.8108 - val loss: 0.5250 - val accuracy: 0.7344
Epoch
      355/1500
18/18
                                             10ms/step - loss: 0.4112 - accuracy: 0.8125 - val_loss: 0.5251 - val_accuracy: 0.7344
      356/1500
Epoch
18/18
                                             10ms/step - loss: 0.4110 - accuracy: 0.8108 - val_loss: 0.5251 - val_accuracy: 0.7344
      357/1500
Epoch
18/18 [=
                                             9ms/step - loss: 0.4111 - accuracy: 0.8125 - val loss: 0.5251 - val accuracy: 0.7344
Epoch
18/18
      358/1500
                                                         loss: 0.4108 - accuracy: 0.8108 - val_loss: 0.5251 - val_accuracy: 0.7344
       .
359/1500
Epoch
18/18
                                                         loss: 0.4109 - accuracy: 0.8108 - val_loss: 0.5252 - val_accuracy: 0.7344
      360/1500
Epoch
18/18
                                          0s 11ms/step - loss: 0.4109 - accuracy: 0.8125 - val loss: 0.5251 - val accuracy: 0.7344
      361/1500
Epoch
18/18
                                                         loss: 0.4108 - accuracy: 0.8125 - val loss: 0.5251 - val accuracy: 0.7344
      362/1500
Epoch
18/18
                                                         loss: 0.4106 - accuracy: 0.8125 - val loss: 0.5251 - val accuracy: 0.7344
      363/1500
Epoch
18/18
                                                        loss: 0.4106 - accuracy: 0.8142 - val loss: 0.5251 - val accuracy: 0.7344
      364/1500
Epoch
18/18
                                                                        accuracy: 0.8177 - val_loss: 0.5251 - val_accuracy: 0.7344
      [======
365/1500
                                             8ms/step - loss: 0.4106 - accuracy: 0.8160 - val_loss: 0.5251 - val_accuracy: 0.7344
18/18 [==
Epoch
      366/1500
18/18
                                          0s 12ms/step - loss: 0.4104 - accuracy: 0.8160 - val loss: 0.5252 - val accuracy: 0.7344
      367/1500
18/18
                                             8ms/step - loss: 0.4103 - accuracy: 0.8142 - val_loss: 0.5252 - val_accuracy: 0.7344
      368/1500
Epoch
18/18
                                             7ms/step - loss: 0.4102 - accuracy: 0.8142 - val loss: 0.5252 - val accuracy: 0.7344
      369/1500
Epoch
18/18
                                             7ms/sten - loss: 0.4102 - accuracy: 0.8160 - val loss: 0.5252 - val accuracy: 0.7344
      370/1500
Epoch
18/18
                                                                        accuracy: 0.8142 - val_loss: 0.5252 - val_accuracy: 0.7344
      ]======
371/1500
Epoch
18/18
                                             10ms/step - loss: 0.4101 - accuracy: 0.8142 - val_loss: 0.5252 - val_accuracy: 0.7344
      372/1500
Epoch
18/18
                                             11ms/step - loss: 0.4102 - accuracy: 0.8142 - val loss: 0.5252 - val accuracy: 0.7344
      373/1500
      1=====
374/1500
Epoch
18/18
                                             7ms/step - loss: 0.4101 - accuracy: 0.8160 - val_loss: 0.5250 - val_accuracy: 0.7344
      375/1500
Epoch
18/18
                                             11ms/step - loss: 0.4098 - accuracy: 0.8160 - val_loss: 0.5250 - val_accuracy: 0.7344
      376/1506
                                                         loss: 0.4098 - accuracy: 0.8194 - val_loss: 0.5250 - val_accuracy: 0.7344
      377/1500
Epoch
                                          0s 10ms/step - loss: 0.4098 - accuracy: 0.8177 - val loss: 0.5250 - val accuracy: 0.7344
18/18
Epoch
      378/1500
18/18
                                             8ms/step - loss: 0.4098 - accuracy: 0.8177 - val loss: 0.5249 - val accuracy: 0.7344
      1
379/1500
Epoch
18/18
      380/1500
Epoch
18/18
                                             6ms/step - loss: 0.4096 - accuracy: 0.8160 - val loss: 0.5249 - val accuracy: 0.7344
      381/1500
Epoch
18/18
                                             10ms/step - loss: 0.4095 - accuracy: 0.8177 - val_loss: 0.5250 - val_accuracy: 0.7344
      .
382/1500
                                             8ms/step - loss: 0.4094 - accuracy: 0.8160 - val_loss: 0.5249 - val_accuracy: 0.7344
      [===--
383/1500
                                          Os 6ms/step - loss: 0.4096 - accuracy: 0.8177 - val_loss: 0.5249 - val_accuracy: 0.7344
18/18 [==
Epoch
18/18
      384/1500
```

```
Epoch 385/1500
                                            0s 7ms/step - loss: 0.4092 - accuracy: 0.8142 - val_loss: 0.5251 - val_accuracy: 0.7344
18/18 [===
Epoch 386/1500
18/18
                                            0s 11ms/step - loss: 0.4090 - accuracy: 0.8177 - val loss: 0.5250 - val accuracy: 0.7344
       387/1500
Epoch
18/18
                                               11ms/step - loss: 0.4091 - accuracy: 0.8177 - val_loss: 0.5250 - val_accuracy: 0.7344
       388/1500
18/18 [=====
Epoch 389/1500
                                            0s 9ms/step - loss: 0.4092 - accuracy: 0.8194 - val_loss: 0.5248 - val_accuracy: 0.7344
.
18/18 Γ==
                                            0s 10ms/step - loss: 0.4090 - accuracy: 0.8160 - val loss: 0.5249 - val accuracy: 0.7344
       390/1500
       L=====
391/1500
Epoch
18/18
                                                            loss: 0.4088 - accuracy: 0.8160 - val_loss: 0.5249 - val_accuracy: 0.7344
Epoch
       392/1500
18/18
                                                            loss: 0.4088 - accuracy: 0.8229 - val loss: 0.5249 - val accuracy: 0.7344
       393/1500
Epoch
18/18
                                                                          accuracy: 0.8212 - val_loss: 0.5249 - val_accuracy: 0.7344
       [======
394/1500
                                            0s 10ms/step - loss: 0.4088 - accuracy: 0.8194 - val_loss: 0.5247 - val_accuracy: 0.7344
18/18
Epoch
       395/1500
18/18
                                               9ms/step - loss: 0.4087 - accuracy: 0.8212 - val loss: 0.5247 - val accuracy: 0.7344
       396/1500
                                                           loss: 0.4086 - accuracy: 0.8194 - val_loss: 0.5247 - val_accuracy: 0.7344
       397/1500
Epoch 397, 18/18 [==:
                                            Os 27ms/step - loss: 0.4086 - accuracy: 0.8194 - val loss: 0.5248 - val accuracy: 0.7344
Epoch
18/18
      398/1500
                                               20ms/step - loss: 0.4087 - accuracy: 0.8177 - val loss: 0.5246 - val accuracy: 0.7344
Epocii
18/18
       1
399/1500
                                                                           accuracy: 0.8212 - val_loss: 0.5247 - val_accuracy: 0.7344
       [=====
400/1500
Epoch
                                            0s 21ms/step - loss: 0.4085 - accuracy: 0.8194 - val_loss: 0.5247 - val_accuracy: 0.7344
18/18 [==
      401/1500
Epoch
18/18 [=
                                            0s 17ms/step - loss: 0.4082 - accuracy: 0.8194 - val loss: 0.5248 - val accuracy: 0.7344
       .
402/1500
                                                                  0.4084 - accuracy: 0.8194 - val_loss: 0.5248 - val_accuracy: 0.7344
      403/1500
Epoch 403
18/18 [==
                                                            loss: 0.4085 - accuracy: 0.8194 - val_loss: 0.5248 - val_accuracy: 0.7344
Epoch 40-
18/18 [=
      404/1500
                                                            loss: 0.4083 - accuracy: 0.8177 - val_loss: 0.5248 - val_accuracy: 0.7344
        .
105/1500
                                                                  0.4082 - accuracy: 0.8229 -
                                                                                                val_loss: 0.5247 - val_accuracy: 0.7344
Epoch 406/1500
                                            0s 19ms/step - loss: 0.4081 - accuracy: 0.8177 - val loss: 0.5247 - val accuracy: 0.7344
18/18 「==
Epoch
      407/1500
18/18 F=
                                            0s 18ms/step - loss: 0.4082 - accuracy: 0.8160 - val loss: 0.5246 - val accuracy: 0.7344
                                               17ms/step - loss: 0.4082 - accuracy: 0.8212 - val_loss: 0.5246 - val_accuracy: 0.7344
                                            0s 17ms/step - loss: 0.4080 - accuracy: 0.8177 - val loss: 0.5247 - val accuracy: 0.7344
Epoch 410/1500
18/18 F
                                               13ms/step - loss: 0.4079 - accuracy: 0.8177 - val_loss: 0.5248 - val_accuracy: 0.7344
Epoch 411/1500
18/18 [=====
Epoch 412/1500
       411/1500
                                                            loss: 0.4080 - accuracy: 0.8177 - val_loss: 0.5248 - val_accuracy: 0.7344
18/18 [==
                                            0s 14ms/step - loss: 0.4079 - accuracy: 0.8177 - val loss: 0.5248 - val accuracy: 0.7344
Fnoch 413/1500
18/18
                                               14ms/step - loss: 0.4079 - accuracy: 0.8177 - val_loss: 0.5247 - val_accuracy: 0.7344
       414/1500
                                                            loss: 0.4078 - accuracy: 0.8177 - val_loss: 0.5247 - val_accuracy: 0.7344
       415/1500
Epoch
18/18 F=
                                                            loss: 0.4078 - accuracy: 0.8177 - val loss: 0.5247 - val accuracy: 0.7344
Epoch 416/1500
18/18 [======
                                                            loss: 0.4078 - accuracy: 0.8177 -
                                                                                                val loss: 0.5248 - val accuracy: 0.7344
       417/1500
Epoch 41
18/18 [=
                                                            loss: 0.4077 - accuracy: 0.8160 - val_loss: 0.5247 - val_accuracy: 0.7344
Epoch 418/1500
18/18 「==
                                            0s 6ms/step - loss: 0.4076 - accuracy: 0.8212 - val loss: 0.5246 - val accuracy: 0.7344
Epoch 419/1500
18/18
                                               9ms/step - loss: 0.4077 - accuracy: 0.8194 - val_loss: 0.5246 - val_accuracy: 0.7344
       420/1500
18/18 [=====
Epoch 421/1500
                                               9ms/step - loss: 0.4076 - accuracy: 0.8160 - val_loss: 0.5246 - val_accuracy: 0.7344
18/18 [==
                                            0s 22ms/step - loss: 0.4074 - accuracy: 0.8177 - val loss: 0.5246 - val accuracy: 0.7344
Epoch 4
18/18 [
      422/1500
                                                                          accuracy: 0.8177 - val_loss: 0.5246 - val_accuracy: 0.7344
                                                        - loss: 0.4076 -
       423/1500
Epoch 423/1500
18/18 [=====
Epoch 424/1500
                                               6ms/step - loss: 0.4075 - accuracy: 0.8160 - val_loss: 0.5246 - val_accuracy: 0.7344
.
18/18 Г
                                            0s 7ms/step - loss: 0.4073 - accuracy: 0.8177 - val loss: 0.5247 - val accuracy: 0.7344
      425/1500
18/18
                                                          loss: 0.4073 - accuracy: 0.8177 - val loss: 0.5246 - val accuracy: 0.7344
16,
Epoch 420,
18/18 [=======
35h 427/1500
                                                            loss: 0.4073 - accuracy: 0.8177 - val_loss: 0.5246 - val_accuracy: 0.7344
                                                            loss: 0.4073 - accuracy: 0.8160 - val loss: 0.5246 - val accuracy: 0.7396
      428/1500
Epoch
18/18
                                                           loss: 0.4073 -
                                                                          accuracy: 0.8160 - val_loss: 0.5247 - val_accuracy: 0.7344
       429/1500
                                            Os 13ms/step - loss: 0.4073 - accuracy: 0.8194 - val_loss: 0.5245 - val_accuracy: 0.7344
18/18 [==
Epoch 430/1500
18/18 F=
                                            0s 14ms/step - loss: 0.4071 - accuracy: 0.8194 - val loss: 0.5244 - val accuracy: 0.7396
      431/1500
18/18
                                               15ms/step - loss: 0.4071 - accuracy: 0.8177 - val_loss: 0.5245 - val_accuracy: 0.7396
      432/1500
Epoch 432/1500
18/18 [=====
Epoch 433/1500
                                            0s 13ms/step - loss: 0.4069 - accuracy: 0.8194 - val loss: 0.5243 - val accuracy: 0.7396
18/18 [=
                                            0s 16ms/step - loss: 0.4069 - accuracy: 0.8177 - val loss: 0.5242 - val accuracy: 0.7396
       434/1500
                                                                          accuracy: 0.8177 - val_loss: 0.5242 - val_accuracy: 0.7396
       435/1506
                                               10ms/step - loss: 0.4070 - accuracy: 0.8160 - val_loss: 0.5243 - val_accuracy: 0.7396
18/18 [==
Epoch 436/1500
18/18
                                               5ms/step - loss: 0.4069 - accuracy: 0.8177 - val loss: 0.5244 - val accuracy: 0.7396
      437/1500
       438/1500
Epoch
18/18 [==
                                                            loss: 0.4069 - accuracy: 0.8177 - val_loss: 0.5242 - val_accuracy: 0.7396
Epoch
       439/1500
18/18 F=
                                               6ms/step - loss: 0.4069 - accuracy: 0.8194 - val loss: 0.5242 - val accuracy: 0.7396
       440/1500
                                                            loss: 0.4068 - accuracy: 0.8177 - val_loss: 0.5242 - val_accuracy: 0.7396
      441/1500
Epoch
                                            Os 10ms/step - loss: 0.4067 - accuracy: 0.8177 - val loss: 0.5242 - val accuracy: 0.7396
18/18 [==
Epoch 442/1500
18/18 F
                                               8ms/step - loss: 0.4066 - accuracy: 0.8177 - val loss: 0.5242 - val accuracy: 0.7396
       443/1500
Epoch
18/18
                                                 ns/step - loss: 0.4067 - accuracy: 0.8177 - val_loss: 0.5241 - val_accuracy: 0.7396
      444/1500
Epoch
18/18 [=====
Epoch 445/1500
                                            0s 12ms/step - loss: 0.4066 - accuracy: 0.8160 - val loss: 0.5241 - val accuracy: 0.7396
.
18/18 Γ=:
                                            0s 16ms/step - loss: 0.4065 - accuracy: 0.8177 - val_loss: 0.5241 - val_accuracy: 0.7396
Epoch 45.
18/18 [======
20ch 447/1500
                                               12ms/step - loss: 0.4067 - accuracy: 0.8177 - val_loss: 0.5240 - val_accuracy: 0.7396
                                         - 0s 8ms/step - loss: 0.4065 - accuracy: 0.8177 - val_loss: 0.5241 - val_accuracy: 0.7396
Epoch 448/1500
18/18 [======
                         =======] - 0s 7ms/step - loss: 0.4065 - accuracy: 0.8177 - val_loss: 0.5242 - val_accuracy: 0.7396
```

	449/1500] -	0s	10ms/step	- los	s: 0.4063	- accuracy	: 0.8177	- val_loss	0.5241	val_accuracy:	: 0.7396
	450/1500 [=========	1 -	۵s	9ms/sten	- loss	· 0 4064	- accilracy.	0 8160	- val loss:	0 5242	- val accuracy:	0 7396
Epoch	451/1500	-					,		_		_ ′	
	[=====================================] -	ØS	8ms/step	- 10SS	: 0.4064	- accuracy:	0.8160	- val_loss:	0.5242	- val_accuracy:	0.7396
	[=====================================] -	0s	4ms/step	- loss	: 0.4063	- accuracy:	0.8194	- val_loss:	0.5240	- val_accuracy:	0.7396
18/18	[] -	0s	5ms/step	- loss	: 0.4063	- accuracy:	0.8177	- val_loss:	0.5240	val_accuracy:	0.7396
	454/1500 [==========] -	0s	5ms/step	- loss	: 0.4063	- accuracy:	0.8160	- val_loss:	0.5240	- val_accuracy:	0.7396
	455/1500 [===================================	1 -	0s	5ms/step	- loss	: 0.4061	- accuracy:	0.8160	- val loss:	0.5241	- val accuracy:	0.7396
Epoch	456/1500											
Epoch	[=====================================											
	[=====================================] -	0s	4ms/step	- loss	: 0.4060	- accuracy:	0.8194	- val_loss:	0.5238	- val_accuracy:	0.7396
	[=====================================] -	0s	4ms/step	- loss	: 0.4061	- accuracy:	0.8177	- val_loss:	0.5238	- val_accuracy:	0.7396
18/18	[] -	0s	4ms/step	- loss	: 0.4061	- accuracy:	0.8177	- val_loss:	0.5237	- val_accuracy:	0.7396
	460/1500] -	0s	5ms/step	- loss	: 0.4060	- accuracy:	0.8177	- val_loss:	0.5237	- val_accuracy:	0.7396
Epoch	461/1500 [
Epoch	462/1500											
Epoch	[=====================================											
	[=====================================] -	0s	5ms/step	- loss	: 0.4058	- accuracy:	0.8160	- val_loss:	0.5237	- val_accuracy:	0.7396
18/18	[=====================================] -	0s	5ms/step	- loss	: 0.4056	- accuracy:	0.8177	- val_loss:	0.5238	- val_accuracy:	0.7396
18/18	[] -	0s	5ms/step	- loss	: 0.4057	- accuracy:	0.8160	- val_loss:	0.5238	- val_accuracy:	0.7396
	466/1500 [===================================] -	0s	5ms/step	- loss	: 0.4057	- accuracy:	0.8177	- val_loss:	0.5239	- val_accuracy:	0.7448
Epoch	467/1500 [
Epoch	468/1500 [
Epoch	469/1500						-		_			
	[=====================================] -	0s	4ms/step	- loss	: 0.4058	- accuracy:	0.8212	- val_loss:	0.5238	- val_accuracy:	v.7396
18/18	[=====================================] -	0s	5ms/step	- loss	: 0.4056	- accuracy:	0.8212	- val_loss:	0.5238	- val_accuracy:	0.7448
18/18	[] -	0s	5ms/step	- loss	: 0.4056	- accuracy:	0.8194	- val_loss:	0.5238	- val_accuracy:	0.7448
18/18	472/1500 [========] -	0s	4ms/step	- loss	: 0.4057	- accuracy:	0.8247	- val_loss:	0.5236	- val_accuracy:	0.7396
	473/1500 [===================================	1 -	0s	5ms/step	- loss	: 0.4055	- accuracy:	0.8229	- val loss:	0.5235	- val accuracy:	0.7396
Epoch	474/1500 [==========											
Epoch	475/1500											
	[=====================================] -	0s	5ms/step	- loss	: 0.4057	- accuracy:	0.8212	- val_loss:	0.5234	- val_accuracy:	0.7396
18/18	[=====================================] -	0s	5ms/step	- loss	: 0.4054	- accuracy:	0.8194	- val_loss:	0.5233	- val_accuracy:	0.7396
18/18	[] -	0s	4ms/step	- loss	0.4054	- accuracy:	0.8194	- val_loss:	0.5233	- val_accuracy:	0.7344
18/18	478/1500 [] -	0s	5ms/step	- loss	: 0.4055	- accuracy:	0.8212	- val_loss:	0.5233	- val_accuracy:	0.7344
	479/1500 [===================================] -	0s	6ms/step	- loss	: 0.4054	- accuracy:	0.8212	- val_loss:	0.5233	- val_accuracy:	0.7448
Epoch	480/1500 [
Epoch	481/1500	-					,		_		_ ′	
Epoch	[=====================================											0.7344
	[] -	0s	6ms/step	- loss							
	483/1500				1033	. 0.4051	- accuracy:	0.8212	- val_loss:	0.5232	- val_accuracy:	0.7396
	[] -	0s									
Epoch 18/18	[=====================================			5ms/step	- loss	: 0.4051	- accuracy:	0.8212	- val_loss:	0.5233	- val_accuracy:	0.7500
Epoch 18/18 Epoch	[=====================================] -	0s	5ms/step 6ms/step	- loss	: 0.4051	- accuracy:	0.8212 0.8229	- val_loss: - val_loss:	0.5233 0.5234	val_accuracy:val_accuracy:	0.7500 0.7500
Epoch 18/18 Epoch 18/18 Epoch	[=====================================] -] -	0s 0s	5ms/step 6ms/step 7ms/step	- loss - loss - loss	: 0.4051 : 0.4050 : 0.4049	- accuracy: - accuracy: - accuracy:	0.8212 0.8229 0.8212	- val_loss: - val_loss: - val_loss:	0.5233 0.5234 0.5232	val_accuracy:val_accuracy:val_accuracy:	0.7500 0.7500 0.7500
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=] -] -] -	0s 0s 0s	5ms/step 6ms/step 7ms/step 6ms/step	- loss - loss - loss - loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050	- accuracy: - accuracy: - accuracy: - accuracy:	0.8212 0.8229 0.8212 0.8229	- val_loss: - val_loss: - val_loss: - val_loss:	0.5233 0.5234 0.5232 0.5232	val_accuracy:val_accuracy:val_accuracy:val_accuracy:	0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================] -] -] -	0s 0s 0s	5ms/step 6ms/step 7ms/step 6ms/step 5ms/step	- loss - loss - loss - loss - loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051	- accuracy: - accuracy: - accuracy: - accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232	val_accuracy:val_accuracy:val_accuracy:val_accuracy:val_accuracy:	0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================] -] -] -] -	0s 0s 0s 0s	5ms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.52330.52340.52320.52320.52320.52320.5232	<pre>- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:</pre>	0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] -] -] -] -	0s 0s 0s 0s	5ms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.52330.52340.52320.52320.52320.52320.5232	<pre>- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:</pre>	0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] -] -] -] -	0s 0s 0s 0s 0s	5ms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 5ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049 : 0.4050	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233	- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] -] -] -] -	0s 0s 0s 0s 0s	5ms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step 5ms/step 7ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049 : 0.4050 : 0.4049	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5233	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s	5ms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 5ms/step 6ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4049	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5233 0.5233	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 7ms/step 6ms/step 6ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4049 : 0.4047	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5232 0.5233	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	Sms/step 6ms/step 7ms/step 5ms/step 5ms/step 7ms/step 6ms/step 6ms/step 6ms/step 5ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049 : 0.4050 : 0.4049 : 0.4049 : 0.4048 : 0.4048	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5233 0.5231 0.5231	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4048 : 0.4048	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5233 0.5233 0.5231 0.5230 0.5231	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500
Epoch 18/18	[=====================================] -] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4048 : 0.4048	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5233 0.5233 0.5231 0.5230 0.5231	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500
Epoch 18/18	[=====================================] -] -] -] -] -] -] -	9s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 5ms/step 5ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4048 : 0.4048 : 0.4048	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8212 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5233 0.5233 0.5233 0.5231 0.5230 0.5231 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500
Epoch 18/18	[=====================================] -] -] -] -] -] -] -	9s 9s 9s 9s 9s 9s 9s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 7ms/step 6ms/step 6ms/step 5ms/step 6ms/step 6ms/step 5ms/step 6ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4049 : 0.4050 : 0.4050 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4048 : 0.4045 : 0.4045 : 0.4045	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8212 0.8229 0.8229 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5233 0.5231 0.5230 0.5231 0.5230 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -] -] -	9s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 5ms/step 5ms/step 6ms/step 6ms/step 6ms/step 7ms/step	- loss	: 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4048 : 0.4046 : 0.4046 : 0.4047	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8212	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5233 0.5230 0.5230 0.5230 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -] -] -	9s 9s 9s 9s 9s 9s 9s 9s	Sms/step 6ms/step 5ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 5ms/step 6ms/step 5ms/step 6ms/step 5ms/step 6ms/step 7ms/step 7ms/step 7ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4048 : 0.4048 : 0.4046 : 0.4046 : 0.4047 : 0.4047	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8229 0.8217 0.8194 0.8194	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5232 0.5231 0.5230 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -] -] -] -	9s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4048 : 0.4045 : 0.4046 : 0.4046 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8212	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5231 0.5230 0.5231 0.5230 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -] -] -] -	0s 0	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 5ms/step 6ms/step 7ms/step 6ms/step 5ms/step 7ms/step 7ms/step 7ms/step 5ms/step 7ms/step 5ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4050 : 0.4047 : 0.4045 : 0.4045 : 0.4045 : 0.4045 : 0.4045 : 0.4046 : 0.4044 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8212 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5231 0.5230 0.5231 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -] -] -] -	0s 0	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 6ms/step 6ms/step 5ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step 7ms/step 7ms/step 7ms/step 8ms/step 8ms/step	- loss	: 0.4051 : 0.4059 : 0.4059 : 0.4059 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4045 : 0.4046 : 0.4046 : 0.4044 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8212 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5232 0.5231 0.5230 0.5231 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -] -] -] -	0s 0	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 6ms/step 6ms/step 5ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step 7ms/step 7ms/step 7ms/step 8ms/step 8ms/step	- loss	: 0.4051 : 0.4059 : 0.4059 : 0.4059 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4045 : 0.4046 : 0.4046 : 0.4044 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8212 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5233 0.5232 0.5231 0.5230 0.5231 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================]	9s 9	Sms/step 6ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step 7ms/step 7ms/step 6ms/step	- loss	: 0.4050	- accuracy:	0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8229 0.8212 0.8229	- val_loss:	0.5233 0.5232 0.5232 0.5232 0.5232 0.5232 0.5233 0.5232 0.5231 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================]	9s 9	Sms/step 6ms/step 5ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 5ms/step 6ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 8ms/step 6ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4049 : 0.4047 : 0.4048 : 0.4048 : 0.4045 : 0.4046 : 0.4046 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8212 0.8212 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5233 0.5232 0.5231 0.5230 0.5231 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232	- val_accuracy:	8.7500 8.7500 8.7500 9.7500 9.7500 9.7500 9.7500 9.7448 9.7396 9.7448 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7500 9.7548
Epoch 18/18 Epoch	[=====================================] -] -] -] -] -] -] -] -	9s 9	Sms/step 6ms/step 5ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 5ms/step 6ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 6ms/step 7ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4049 : 0.4047 : 0.4048 : 0.4045 : 0.4046 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8212 0.8229 0.8212 0.8212 0.8229	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5233 0.5232 0.5231 0.5230 0.5231 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7448
Epoch 18/18 Epoch	[=====================================]	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 5ms/step 6ms/step 7ms/step 7ms/step 7ms/step 7ms/step 5ms/step 6ms/step 7ms/step 7ms/step 6ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4045 : 0.4047 : 0.4045 : 0.4045 : 0.4045 : 0.4045 : 0.4045 : 0.4046 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8222 0.8222 0.8212 0.8229 0.8212 0.8212	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5233 0.5232 0.5231 0.5230 0.5231 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5238 0.5238 0.5238 0.5238 0.5238 0.5239 0.5238 0.5239 0.5239 0.5238 0.5239 0.5238 0.5238 0.5239 0.5229 0.5229 0.5229 0.5229 0.5229 0.5229 0.5229 0.5229 0.5229	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500
Epoch 18/18 Epoch	[=====================================]	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 7ms/step 7ms/step 8ms/step 5ms/step 7ms/step 7ms/step 7ms/step 7ms/step 6ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step 7ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4049 : 0.4050 : 0.4049 : 0.4047 : 0.4048 : 0.4046 : 0.4046 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4043 : 0.4043 : 0.4043	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8212 0.8229 0.8212 0.8222 0.8222 0.8222 0.8222 0.8222 0.8229	- val_loss:	0.5233 0.5232 0.5232 0.5232 0.5232 0.5232 0.5233 0.5231 0.5230 0.5231 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500
Epoch 18/18 Epoch	[=====================================]	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 7ms/step 7ms/step 6ms/step 7ms/step 7ms/step 7ms/step 6ms/step 7ms/step	- loss	: 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4047 : 0.4048 : 0.4045 : 0.4046 : 0.4046 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4043 : 0.4043 : 0.4043 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8247 0.8212 0.8229 0.8212 0.82212 0.8229 0.8247 0.8229	- val_loss:	0.5233 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5231 0.5230 0.5231 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5229 0.5229 0.5229 0.5229 0.5227 0.5228	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7448 0.7448
Epoch 18/18 Epoch	[=====================================]	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 7ms/step 7ms/step 6ms/step 7ms/step 7ms/step 7ms/step 6ms/step 7ms/step 7ms/step 6ms/step 7ms/step	- loss	: 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4047 : 0.4048 : 0.4045 : 0.4046 : 0.4046 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4043 : 0.4043 : 0.4043 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8247 0.8212 0.8229 0.8212 0.82212 0.8229 0.8247 0.8229	- val_loss:	0.5233 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5231 0.5230 0.5231 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5229 0.5229 0.5229 0.5229 0.5227 0.5228	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7448 0.7448
Epoch 18/18 Epoch	[=====================================] - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step 6ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 6ms/step 7ms/step 7ms/step 7ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step	- loss	: 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4049 : 0.4049 : 0.4048 : 0.4045 : 0.4046 : 0.4046 : 0.4044 : 0.4044 : 0.4043 : 0.4043 : 0.4043 : 0.4044 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8177 0.8194 0.8212 0.8229 0.8212 0.8229 0.8212 0.8229 0.8247 0.8229 0.8247 0.8229	- val_loss:	0.5234 0.5232 0.5232 0.5232 0.5232 0.5232 0.5233 0.5230 0.5230 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5229 0.5229 0.5229 0.5229 0.5227 0.5228	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396
Epoch 18/18 Epoch	[=====================================		98 98 98 98 98 98 98 98 98 98 98 98 98 9	Sms/step 6ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 6ms/step 7ms/step 6ms/step 6ms/step 7ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4051 : 0.4050 : 0.4049 : 0.4049 : 0.4047 : 0.4048 : 0.4046 : 0.4046 : 0.4044 : 0.4044 : 0.4043 : 0.4043 : 0.4043 : 0.4043 : 0.4044 : 0.4044 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8212 0.8229 0.8229 0.8229 0.8229 0.8212 0.8229 0.8212 0.8212 0.8212 0.8222 0.8212 0.8229 0.8247 0.8212 0.8212 0.8212 0.8212 0.8212 0.8212	- val_loss:	0.5234 0.5232 0.5232 0.5232 0.5232 0.5232 0.5233 0.5232 0.5230 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232 0.5229 0.5229 0.5229 0.5229 0.5227 0.5228 0.5227	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7500
Epoch 18/18 Epoch	[=====================================		85 85 85 85 85 85 85 85 85 85 85 85 85 8	Sms/step 6ms/step 5ms/step 6ms/step 5ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4051 : 0.4049 : 0.4050 : 0.4049 : 0.4045 : 0.4048 : 0.4045 : 0.4046 : 0.4046 : 0.4044 : 0.4046 : 0.4043 : 0.4043 : 0.4043 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8212 0.8229 0.8212 0.8229 0.8212 0.8212 0.8212 0.8229 0.8247 0.8229 0.8247 0.829 0.8212 0.829 0.8212	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5233 0.5231 0.5230 0.5231 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232 0.5229 0.5229 0.5229 0.5229 0.5227 0.5227	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7500
Epoch 18/18 Epoch	[=====================================		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Sms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step	- loss	: 0.4051 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4050 : 0.4047 : 0.4045 : 0.4045 : 0.4046 : 0.4046 : 0.4046 : 0.4044 : 0.4046 : 0.4044 : 0.4044 : 0.4043 : 0.4043 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044 : 0.4044	- accuracy:	0.8212 0.8229 0.8212 0.8229 0.8212 0.8247 0.8194 0.8212 0.8229 0.8229 0.8229 0.8229 0.8212 0.8229 0.8212 0.8212 0.8212 0.8212 0.8229 0.8247 0.8229 0.8212 0.8212 0.8212 0.8212 0.8212 0.8212 0.8212 0.8212 0.8212	- val_loss:	0.5233 0.5234 0.5232 0.5232 0.5232 0.5232 0.5231 0.5230 0.5231 0.5230 0.5232 0.5232 0.5232 0.5232 0.5232 0.5232 0.5229 0.5229 0.5227 0.5228 0.5227 0.5227 0.5227 0.5227 0.5227	- val_accuracy:	0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7396 0.7448 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7500 0.7500 0.7500 0.7500

	F13 /1F00													
	513/1500 [===================================] -	- 0s	6ms/step	-	loss:	0.4039	- accuracy:	0.8247	- val_loss:	0.5225	-	val_accuracy:	0.7500
	514/1500 [===================================] -	. 0s	6ms/step	_	loss:	0.4039	- accuracy:	0.8194	- val_loss:	0.5225	_	val_accuracy:	0.7500
poch	515/1500 [========							-		_				
poch	516/1500							-		_				
	[=====================================] -	· 0s	8ms/step	-	loss:	0.4039	- accuracy:	0.8229	- val_loss:	0.5225	-	val_accuracy:	0.7500
8/18	[======================================] -	0s	6ms/step	-	loss:	0.4039	- accuracy:	0.8264	- val_loss:	0.5223	-	val_accuracy:	0.7500
8/18	518/1500 [===================================] -	. 0s	5ms/step	-	loss:	0.4040	- accuracy:	0.8229	- val_loss:	0.5223	-	val_accuracy:	0.7500
	519/1500 [1 -	. 05	4ms/sten	_	loss:	0.4039	- accuracy:	0.8212	- val loss:	0.5223	_	val accuracy:	0.7500
poch	520/1500							-		_				
	[=====================================] -	· 0s	5ms/step	-	loss:	0.4038	- accuracy:	0.8212	- val_loss:	0.5224	-	val_accuracy:	0.7500
	[=====================================] -	0s	4ms/step	-	loss:	0.4036	- accuracy:	0.8247	- val_loss:	0.5223	-	val_accuracy:	0.7500
18/18	[======================================] -	0s	5ms/step	-	loss:	0.4036	- accuracy:	0.8229	- val_loss:	0.5223	-	val_accuracy:	0.7448
	523/1500 [===================================] -	. 0s	4ms/step	_	loss:	0.4034	- accuracy:	0.8212	- val_loss:	0.5224	_	val_accuracy:	0.7500
	524/1500 [===========	1 -	. 05	5ms/sten	_	loss:	0.4035	- accuracy:	0.8212	- val loss:	0.5224	_	val accuracy:	0.7500
Epoch	525/1500							-		_				
Epoch	[=====================================							-		_				
	[=====================================] -	· 0s	5ms/step	-	loss:	0.4035	- accuracy:	0.8212	- val_loss:	0.5224	-	val_accuracy:	0.7448
18/18	[===========] -	0s	4ms/step	-	loss:	0.4036	- accuracy:	0.8229	- val_loss:	0.5225	-	val_accuracy:	0.7448
18/18	528/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.4033	- accuracy:	0.8212	- val_loss:	0.5226	_	val_accuracy:	0.7500
poch 18/18	529/1500 [==========] -	. 0s	4ms/step	_	loss:	0.4034	- accuracy:	0.8229	- val_loss:	0.5226	_	val_accuracy:	0.7500
poch	530/1500							-		_				
poch	[=====================================							-		_				
	[=====================================] -	· 0s	5ms/step	-	loss:	0.4032	- accuracy:	0.8212	- val_loss:	0.5223	-	val_accuracy:	0.7500
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4034	- accuracy:	0.8194	- val_loss:	0.5224	-	val_accuracy:	0.7500
8/18	[] -	- 0s	4ms/step	-	loss:	0.4032	- accuracy:	0.8212	- val_loss:	0.5224	-	val_accuracy:	0.7500
18/18	534/1500 [] -	. 0s	4ms/step	_	loss:	0.4033	- accuracy:	0.8212	- val_loss:	0.5224	_	val_accuracy:	0.7500
Epoch	535/1500 [
poch	536/1500													
poch	[=====================================													
	[=====================================] -	· 0s	5ms/step	-	loss:	0.4031	- accuracy:	0.8212	- val_loss:	0.5226	-	val_accuracy:	0.7500
18/18	[=====================================] -	0s	6ms/step	-	loss:	0.4031	- accuracy:	0.8247	- val_loss:	0.5227	-	val_accuracy:	0.7500
18/18	[======================================] -	0s	4ms/step	-	loss:	0.4030	- accuracy:	0.8247	- val_loss:	0.5227	-	val_accuracy:	0.7448
	540/1500 [===================================] -	. 0s	4ms/step	_	loss:	0.4032	- accuracy:	0.8212	- val_loss:	0.5227	_	val_accuracy:	0.7448
	541/1500 [1 -	. 0s	5ms/step	_	loss:	0.4030	- accuracy:	0.8247	- val loss:	0.5228	_	val accuracy:	0.7448
poch	542/1500 [========													
poch	543/1500							-		_				
	[=====================================	J -	· 0s	5ms/step	-	loss:	0.4028	- accuracy:	0.8212	- val_loss:	0.5229	-	val_accuracy:	0.7448
	[=====================================] -	0s	4ms/step	-	loss:	0.4029	- accuracy:	0.8229	- val_loss:	0.5229	-	val_accuracy:	0.7448
8/18	[=====================================] -	0s	5ms/step	-	loss:	0.4027	- accuracy:	0.8247	- val_loss:	0.5228	-	val_accuracy:	0.7448
18/18	[======================================] -	- 0s	5ms/step	-	loss:	0.4027	- accuracy:	0.8229	- val_loss:	0.5229	-	val_accuracy:	0.7448
	547/1500 [===================================] -	. 0s	5ms/step	-	loss:	0.4030	- accuracy:	0.8229	- val_loss:	0.5229	-	val_accuracy:	0.7448
	548/1500 [===================================] -	. 0s	5ms/step	_	loss:	0.4026	- accuracy:	0.8247	- val_loss:	0.5229	_	val_accuracy:	0.7448
	549/1500 [========	1 -	. As	5ms/sten	_	loss:	0.4026	- accuracy:	0.8247	- val loss:	0.5230	_	val accuracy:	0.7448
Epoch	550/1500 [========													
Epoch	551/1500							-		_				
	[=====================================] -	· 0s	4ms/step	-	loss:	0.4025	- accuracy:	0.8212	- val_loss:	0.5230	-	val_accuracy:	0.7448
18/18	[=====================================] -	- 0s	5ms/step	-	loss:	0.4025	- accuracy:	0.8229	- val_loss:	0.5231	-	val_accuracy:	0.7448
18/18	[] -	- 0s	4ms/step	-	loss:	0.4024	- accuracy:	0.8212	- val_loss:	0.5232	-	val_accuracy:	0.7448
18/18	554/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.4024	- accuracy:	0.8281	- val_loss:	0.5231	-	val_accuracy:	0.7448
	555/1500 [] -	. 0s	4ms/step	_	loss:	0.4024	- accuracy:	0.8212	- val_loss:	0.5232	_	val_accuracy:	0.7448
poch	556/1500 [=======													
Epoch	557/1500							,		_			_ ′	
	[=====================================	١ -	· 0s	5ms/step	-	1055:	v.4023	- accuracy:	ø.8229	- val_loss:	Ø.5232	-	val_accuracy:	ø.7448
18/18	[=====================================] -	0s	5ms/step	-	loss:	0.4023	- accuracy:	0.8229	- val_loss:	0.5232	-	val_accuracy:	0.7448
8/18	[===========] -	- 0s	4ms/step	-	loss:	0.4022	- accuracy:	0.8264	- val_loss:	0.5232	-	val_accuracy:	0.7448
8/18	560/1500 [===================================] -	- 0s	4ms/step	-	loss:	0.4023	- accuracy:	0.8229	- val_loss:	0.5233	-	val_accuracy:	0.7448
	561/1500 [] -	. 0s	5ms/step	_	loss:	0.4022	- accuracy:	0.8229	- val_loss:	0.5234	_	val_accuracy:	0.7448
poch	562/1500 [===================================													
poch	563/1500													
poch	[=====================================													
	[=====================================] -	0s	4ms/step	-	loss:	0.4021	- accuracy:	0.8229	- val_loss:	0.5234	-	val_accuracy:	0.7448
8/18	[======================================] -	0s	5ms/step	-	loss:	0.4021	- accuracy:	0.8247	- val_loss:	0.5233	-	val_accuracy:	0.7448
8/18	566/1500 [===================================] -	- 0s	4ms/step	-	loss:	0.4020	- accuracy:	0.8229	- val_loss:	0.5234	-	val_accuracy:	0.7448
8/18	567/1500 [===================================] -	- 0s	4ms/step	-	loss:	0.4018	- accuracy:	0.8264	- val_loss:	0.5234	_	val_accuracy:	0.7448
poch	568/1500 [=========													
poch	569/1500 [
poch	570/1500													
poch	[=====================================													
18/18	[=====================================] -	0s	4ms/step	-	loss:	0.4018	- accuracy:	0.8247	- val_loss:	0.5235	-	val_accuracy:	0.7448
18/18	[======================================] -	0s	5ms/step	-	loss:	0.4019	- accuracy:	0.8281	- val_loss:	0.5236	-	val_accuracy:	0.7448
	573/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.4019	- accuracy:	0.8281	- val_loss:	0.5235	-	val_accuracy:	0.7448
18/18	574/1500	,	. 0s	5ms/step	-	loss:	0.4017	- accuracy:	0.8247	- val_loss:	0.5236	_	val_accuracy:	0.7448
18/18 Epoch 18/18	[] -						,					-	
18/18 Epoch 18/18 Epoch	575/1500		- 0<	5ms/sten	_	loss:	0.4018	- accuracy	0.8229	- val loss:	0.5237	_	val_accuracv.	0.7448
18/18 Epoch 18/18 Epoch 18/18			- 0s	5ms/step	-	loss:	0.4018	- accuracy:	0.8229	- val_loss:	0.5237	-	val_accuracy:	0.744

-noch													
	577/1500 [===================================] -	- 0s	4ms/step	-	loss:	0.4016 -	accuracy:	0.8247	- val_loss:	0.5238	- val_accura	cy: 0.7396
Epoch	578/1500 [
poch	579/1500												
	[=====================================] -	· 0s	4ms/step	-	loss:	0.4016 -	accuracy:	0.8229	- val_loss:	0.5240	- val_accura	cy: 0.7396
	[=====================================] -	0 s	4ms/step	-	loss:	0.4016 -	accuracy:	0.8299	- val_loss:	0.5239	- val_accura	cy: 0.7396
8/18	[] -	- 0s	4ms/step	-	loss:	0.4015 -	accuracy:	0.8264	- val_loss:	0.5240	- val_accura	cy: 0.7396
8/18	582/1500 [] -	. 0s	6ms/step	-	loss:	0.4015 -	accuracy:	0.8264	- val_loss:	0.5239	- val_accura	cy: 0.7396
	583/1500 [=======	1 -	. As	4ms/sten	_	loss	0 4014 -	accuracy:	0 8264	- val loss:	0 5240	- val accura	rv : 0 7396
poch	584/1500							-		_		_	-
	[=====================================	J -	· 0s	4ms/step	-	loss:	0.4015 -	accuracy:	0.8247	- val_loss:	0.5239	- val_accura	cy: 0.7396
	[======================================] -	0 s	5ms/step	-	loss:	0.4013 -	accuracy:	0.8264	- val_loss:	0.5240	- val_accura	cy: 0.7396
18/18	[======================================] -	0s	4ms/step	-	loss:	0.4013 -	accuracy:	0.8247	- val_loss:	0.5240	- val_accura	cy: 0.7396
	587/1500 [===================================] -	. 0s	5ms/step	-	loss:	0.4013 -	accuracy:	0.8264	- val_loss:	0.5241	- val_accura	cy: 0.7344
	588/1500 [1 -	. 05	5ms/sten	_	loss:	0.4013 -	accuracy:	0.8299	- val loss:	0.5241	- val accura	rv: 0.7344
Epoch	589/1500							-		_		_	
Epoch	[=====================================							-		_		_	-
	[=====================================] -	· 0s	5ms/step	-	loss:	0.4013 -	accuracy:	0.8281	- val_loss:	0.5243	- val_accura	cy: 0.7344
18/18	[===========] -	0 s	4ms/step	-	loss:	0.4012 -	accuracy:	0.8264	- val_loss:	0.5244	- val_accura	cy: 0.7344
18/18	592/1500 [===================================] -	. 0s	4ms/step	-	loss:	0.4011 -	accuracy:	0.8281	- val_loss:	0.5242	- val_accura	cy: 0.7344
Epoch 18/18	593/1500 [===========] -	. 0s	4ms/step	_	loss:	0.4011 -	accuracy:	0.8264	- val_loss:	0.5243	- val_accura	cy: 0.7344
	594/1500 r	1 -	. ac	Ame/stan	_	1000	0 1011 -	accuracy:	A 8281	- val loss:	0 5244	- val accura	cv: 0 7344
poch	[=====================================												
poch	[=====================================												
8/18	[=====================================] -	0 s	5ms/step	-	loss:	0.4010 -	accuracy:	0.8281	- val_loss:	0.5243	- val_accura	cy: 0.7344
18/18	[======================================] -	- 0s	6ms/step	-	loss:	0.4010 -	accuracy:	0.8281	- val_loss:	0.5245	- val_accura	cy: 0.7344
18/18	598/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.4008 -	accuracy:	0.8281	- val_loss:	0.5247	- val_accura	cy: 0.7344
	599/1500 [] -	. 0s	6ms/step	_	loss:	0.4006 -	accuracy:	0.8299	- val_loss:	0.5247	- val_accura	cy: 0.7344
Epoch	600/1500 [-		_		_	-
Epoch	601/1500												
Epoch	[=====================================												
	[=====================================	J -	· 0s	4ms/step	-	loss:	0.4007 -	accuracy:	0.8281	- val_loss:	0.5246	- val_accura	cy: 0.7344
	[=====================================] -	0 s	5ms/step	-	loss:	0.4007 -	accuracy:	0.8299	- val_loss:	0.5247	- val_accura	cy: 0.7344
18/18	[======================================] -	0 s	5ms/step	-	loss:	0.4005 -	accuracy:	0.8316	- val_loss:	0.5248	- val_accura	cy: 0.7344
18/18	605/1500 [===================================] -	- 0s	4ms/step	-	loss:	0.4006 -	accuracy:	0.8281	- val_loss:	0.5248	- val_accura	cy: 0.7344
18/18	606/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.4006 -	accuracy:	0.8299	- val_loss:	0.5249	- val_accura	cy: 0.7344
Epoch	607/1500 [-		_		_	
Epoch	608/1500 [========												
poch	609/1500												
poch	[=====================================												
	[=====================================] -	· 0s	5ms/step	-	loss:	0.4005 -	accuracy:	0.8299	- val_loss:	0.5249	- val_accura	cy: 0.7344
	[=====================================] -	0 s	5ms/step	-	loss:	0.4005 -	accuracy:	0.8316	- val_loss:	0.5247	- val_accura	cy: 0.7344
18/18	[=====================================] -	0 s	4ms/step	-	loss:	0.4005 -	accuracy:	0.8264	- val_loss:	0.5248	- val_accura	cy: 0.7344
18/18	[======================================] -	- 0s	5ms/step	-	loss:	0.4004 -	accuracy:	0.8299	- val_loss:	0.5246	- val_accura	cy: 0.7344
18/18	614/1500 [==============] -	- 0s	4ms/step	-	loss:	0.4004 -	accuracy:	0.8316	- val_loss:	0.5246	- val_accura	cy: 0.7344
	615/1500 [===================================] -	. 0s	5ms/step	_	loss:	0.4003 -	accuracy:	0.8316	- val_loss:	0.5247	- val_accura	cy: 0.7344
	616/1500 [===================================	1 -	- 05	5ms/sten	_	loss:	0.4002 -	accuracy:	0.8316	- val loss:	0.5246	- val accura	rv: 0.7344
Epoch	617/1500												
Epoch	[=====================================												
Epoch	[=====================================							-		_		_	
	[=====================================] -	0 s	5ms/step	-	loss:	0.4002 -	accuracy:	0.8316	- val_loss:	0.5244	- val_accura	cy: 0.7344
18/18	[======================================] -	. 0s	5ms/step	-	loss:	0.4002 -	accuracy:	0.8264	- val_loss:	0.5246	- val_accura	cy: 0.7344
18/18	621/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.4001 -	accuracy:	0.8316	- val_loss:	0.5247	- val_accura	cy: 0.7344
	622/1500 [========] -	· 0s	4ms/step	_	loss:	0.4002 -	accuracy:	0.8299	- val_loss:	0.5248	- val_accura	cy: 0.7344
Epoch	623/1500 [=======												
Epoch	624/1500							-		_		_	-
poch	[=====================================												
poch	[=====================================												
18/18	[=====================================] -	0 s	5ms/step	-	loss:	0.3999 -	accuracy:	0.8299	- val_loss:	0.5246	- val_accura	cy: 0.7344
18/18	[======================================] -	0 s	4ms/step	-	loss:	0.4000 -	accuracy:	0.8299	- val_loss:	0.5246	- val_accura	cy: 0.7344
8/18	628/1500 [============] -	- 0s	5ms/step	-	loss:	0.4000 -	accuracy:	0.8281	- val_loss:	0.5243	- val_accura	cy: 0.7344
18/18	629/1500 [===================================] -	· 0s	5ms/step	-	loss:	0.3999 -	accuracy:	0.8247	- val_loss:	0.5246	- val_accura	cy: 0.7344
	630/1500 [========] -	0.5	5ms/sten	_	loss:	0.3997 -	accuracv:	0.8299	- val_loss:	0.5247	- val_accura	cy: 0.7344
poch	631/1500 [===================================												
poch	632/1500												
poch	[=====================================												
	[=====================================] -	0 s	6ms/step	-	loss:	0.4000 -	accuracy:	0.8264	- val_loss:	0.5244	- val_accura	cy: 0.7396
18/18	[=====================================] -	0 s	6ms/step	-	loss:	0.3997 -	accuracy:	0.8316	- val_loss:	0.5245	- val_accura	cy: 0.7396
18/18	[======================================] -	- 0s	6ms/step	-	loss:	0.3996 -	accuracy:	0.8281	- val_loss:	0.5242	- val_accura	cy: 0.7344
18/18	636/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.3996 -	accuracy:	0.8333	- val_loss:	0.5244	- val_accura	cy: 0.7344
Epoch	637/1500 [-		_		_	
	638/1500 [
		, -	US					-		_		_	
18/18 poch		,											
8/18 poch 8/18	640/1500 [===================================] -	· 0s	8ms/step	-	loss:	0.3994 -	accuracy:	0.8299	- Val_1055:	0.5247	- vai_accura	Ly. 0.7330

	641/1500											
	[]	-	0s	6ms/step	- loss:	0.3995 -	accuracy:	0.8316 -	val_loss:	0.5247	val_accuracy:	0.7344
	642/1500 [=========]	-	0s	6ms/step	- loss:	0.3994 -	accuracy:	0.8281 -	val_loss:	0.5247	- val_accuracy:	0.7396
	643/1500 [======]	_	0s	5ms/step	- loss:	0.3994 -	accuracy:	0.8299 -	val loss:	0.5247	- val accuracy:	0.7344
Epoch	644/1500											
	[=====================================	-	05	Sms/step	- 10SS:	0.3995 -	accuracy:	0.8299 -	vai_ioss:	0.5245	- vai_accuracy:	0.7396
	[=======] 646/1500	-	0s	5ms/step	- loss:	0.3994 -	accuracy:	0.8281 -	val_loss:	0.5246	- val_accuracy:	0.7396
18/18	[]	-	0s	6ms/step	- loss:	0.3995 -	accuracy:	0.8281 -	val_loss:	0.5245	- val_accuracy:	0.7396
	647/1500 [=======]	-	0s	6ms/step	- loss:	0.3993 -	accuracy:	0.8299 -	val_loss:	0.5246	- val_accuracy:	0.7396
	648/1500 []	_	95	8ms/sten	- loss:	0.3992 -	accuracy:	0.8299 -	val loss:	0.5246	- val accuracy:	0.7396
Epoch	649/1500						-		_			
	[=======] 650/1500	-	ØS.	5ms/step	- loss:	0.3993 -	accuracy:	0.8299 -	val_loss:	0.5246	- val_accuracy:	0.7396
	[=======] 651/1500	-	0s	6ms/step	- loss:	0.3993 -	accuracy:	0.8299 -	val_loss:	0.5244	- val_accuracy:	0.7396
18/18	[]	-	0s	6ms/step	- loss:	0.3991 -	accuracy:	0.8299 -	val_loss:	0.5245	val_accuracy:	0.7396
	652/1500 [=========]	-	0s	5ms/step	- loss:	0.3992 -	accuracy:	0.8316 -	val_loss:	0.5246	- val_accuracy:	0.7396
	653/1500 [======]	_	0s	5ms/step	- loss:	0.3990 -	accuracy:	0.8316 -	val loss:	0.5246	- val accuracy:	0.7396
Epoch	654/1500											
Epoch	[=====================================						-		_			
	[=======] 656/1500	-	0s	6ms/step	- loss:	0.3992 -	accuracy:	0.8316 -	val_loss:	0.5247	- val_accuracy:	0.7396
18/18	[]	-	0s	5ms/step	- loss:	0.3989 -	accuracy:	0.8299 -	val_loss:	0.5248	- val_accuracy:	0.7396
	657/1500 [=======]	-	0s	6ms/step	- loss:	0.3989 -	accuracy:	0.8281 -	val_loss:	0.5248	- val_accuracy:	0.7396
	658/1500 []	_	95	7ms/sten	- loss:	0.3990 -	accuracy:	0.8299 -	val loss:	0.5249	- val accuracy:	0.7396
Epoch	659/1500											
	[=====================================	-	0s	6ms/step	- loss:	0.3989 -	accuracy:	0.8299 -	val_loss:	0.5250	- val_accuracy:	0.7396
	[=======] 661/1500	-	0s	7ms/step	- loss:	0.3988 -	accuracy:	0.8333 -	val_loss:	0.5253	- val_accuracy:	0.7396
18/18	[]	-	0s	8ms/step	- loss:	0.3990 -	accuracy:	0.8316 -	val_loss:	0.5252	- val_accuracy:	0.7396
18/18	662/1500 []	-	0s	8ms/step	- loss:	0.3989 -	accuracy:	0.8299 -	val_loss:	0.5252	- val_accuracy:	0.7396
	663/1500 []	_	0s	9ms/step	- loss:	0.3989 -	accuracv:	0.8299 -	val_loss:	0.5253	- val_accuracv:	0.7396
Epoch	664/1500						-		_			
Epoch	[=====================================						-		_			
	[=====================================	-	0s	5ms/step	- loss:	0.3988 -	accuracy:	0.8299 -	val_loss:	0.5250	- val_accuracy:	0.7396
18/18	[=====================================	-	0s	8ms/step	- loss:	0.3986 -	accuracy:	0.8299 -	val_loss:	0.5250	val_accuracy:	0.7396
18/18	[]	-	0s	7ms/step	- loss:	0.3986 -	accuracy:	0.8299 -	val_loss:	0.5250	- val_accuracy:	0.7396
	668/1500 [======]	_	0s	7ms/step	- loss:	0.3987 -	accuracy:	0.8299 -	val loss:	0.5251	- val accuracy:	0.7396
Epoch	669/1500											
Epoch	[=====================================											
	[========] 671/1500	-	0s	8ms/step	- loss:	0.3986 -	accuracy:	0.8316 -	val_loss:	0.5252	- val_accuracy:	0.7396
18/18	[=====================================	-	0s	9ms/step	- loss:	0.3990 -	accuracy:	0.8316 -	val_loss:	0.5253	val_accuracy:	0.7396
18/18	[]	-	0s	7ms/step	- loss:	0.3986 -	accuracy:	0.8316 -	val_loss:	0.5252	- val_accuracy:	0.7396
	673/1500 [=======]	_	0s	4ms/step	- loss:	0.3986 -	accuracy:	0.8299 -	val_loss:	0.5252	- val_accuracy:	0.7396
	674/1500 [=======]	_	۵c	5mc/stan	- 1000	0 3085 -	accuracy:	0 8281 -	val loss:	0 5252	- val accuracy:	0 7396
Epoch	675/1500											
	[=====================================	-	ØS.	4ms/step	- loss:	0.3987 -	accuracy:	0.8299 -	val_loss:	0.5253	- val_accuracy:	0.7396
	[========] 677/1500	-	0s	5ms/step	- loss:	0.3986 -	accuracy:	0.8281 -	val_loss:	0.5252	val_accuracy:	0.7396
18/18	[]	-	0s	5ms/step	- loss:	0.3985 -	accuracy:	0.8299 -	val_loss:	0.5253	- val accuracy:	0.7396
	678/1500 [=======]											
Faceb	[]	-	0s	4ms/step	- loss:	0.3985 -	accuracy:	0.8299 -	val_loss:			0.7396
	679/1500						-		_	0.5255	- val_accuracy:	
18/18 Epoch	679/1500 [======] 680/1500	-	0s	4ms/step	- loss:	0.3984 -	accuracy:	0.8316 -	val_loss:	0.5255 0.5253	val_accuracy:val_accuracy:	0.7396
18/18 Epoch 18/18 Epoch	679/1500 [-	0s 0s	4ms/step 5ms/step	- loss: - loss:	0.3984 - 0.3985 -	accuracy:	0.8316 - 0.8299 -	val_loss:	0.5255 0.5253 0.5253	val_accuracy:val_accuracy:val_accuracy:	0.7396 0.7396
18/18 Epoch 18/18 Epoch 18/18	679/1500 [] 680/1500 [] 681/1500 []	-	0s 0s	4ms/step 5ms/step	- loss: - loss:	0.3984 - 0.3985 -	accuracy:	0.8316 - 0.8299 -	val_loss:	0.5255 0.5253 0.5253	val_accuracy:val_accuracy:val_accuracy:	0.7396 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	679/1500 [[] 680/1500 [[] 681/1500 [[] 682/1500 [[]	-	0s 0s 0s	4ms/step 5ms/step 4ms/step	- loss: - loss: - loss:	0.3984 - 0.3985 - 0.3983 -	accuracy:	0.8316 - 0.8299 - 0.8299 -	val_loss: val_loss: val_loss:	0.5255 0.5253 0.5253 0.5253	val_accuracy:val_accuracy:val_accuracy:val_accuracy:	0.7396 0.7396 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	679/1500 [] 688/1500 [] 681/1500 [] 681/1500 [] 682/1500	-	0s 0s 0s	4ms/step 5ms/step 4ms/step 5ms/step	- loss: - loss: - loss: - loss:	0.3984 - 0.3985 - 0.3983 - 0.3984 -	accuracy: accuracy: accuracy:	0.8316 - 0.8299 - 0.8299 -	val_loss: val_loss: val_loss: val_loss:	0.5255 0.5253 0.5253 0.5253 0.5253	val_accuracy:val_accuracy:val_accuracy:val_accuracy:val_accuracy:	0.7396 0.7396 0.7396 0.7396
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18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	679/1500 [] 680/1500 [] 680/1500 [] 681/1500 [] 682/1500 [] 683/1500 [] 684/1500 []		0s 0s 0s 0s	4ms/step 5ms/step 4ms/step 5ms/step 4ms/step 4ms/step	- loss: - loss: - loss: - loss: - loss:	0.3984 - 0.3985 - 0.3983 - 0.3984 - 0.3985 - 0.3984 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.8316 - 0.8299 - 0.8299 - 0.8299 - 0.8281 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.52550.52530.52530.52530.52530.52530.5254	- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:	0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
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18/18 Epoch	679/1500 [9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Ams/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 4ms/step 5ms/step 5ms/step 4ms/step 5ms/step	- loss:	0.3984 - 0.3985 - 0.3984 - 0.3985 - 0.3984 - 0.3983 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 -	accuracy:	0.8316 - 0.8299 - 0.8299 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8316 - 0.8281 - 0.8316 - 0.8281 - 0.8316 - 0.8281 - 0.8281 -	val_loss:	0.5255 0.5253 0.5253 0.5253 0.5253 0.5254 0.5253 0.5254 0.5255 0.5255 0.5256 0.5256 0.5256 0.5256 0.5257 0.5257 0.5257 0.5258	- val_accuracy:	0.7396 0.7396
18/18 Epoch 18/18	679/1500 [9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Ams/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 6ms/step 6ms/step 6ms/step	- loss:	0.3984 - 0.3985 - 0.3984 - 0.3985 - 0.3984 - 0.3982 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 -	accuracy:	0.8316 - 0.8299 - 0.8299 - 0.8281 -	val_loss:	0.5255 0.5253 0.5253 0.5253 0.5253 0.5254 0.5253 0.5254 0.5255 0.5254 0.5255 0.5256 0.5256 0.5256 0.5257 0.5257 0.5259 0.5259	- val_accuracy:	0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch 18/18	679/1500 [9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Ams/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 6ms/step 6ms/step 6ms/step	- loss:	0.3984 - 0.3985 - 0.3984 - 0.3985 - 0.3984 - 0.3982 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 -	accuracy:	0.8316 - 0.8299 - 0.8299 - 0.8281 -	val_loss:	0.5255 0.5253 0.5253 0.5253 0.5253 0.5254 0.5253 0.5254 0.5255 0.5254 0.5255 0.5256 0.5256 0.5256 0.5257 0.5257 0.5259 0.5259	- val_accuracy:	0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch 18/18	679/1500 [9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Ams/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 6ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step	- loss:	0.3984 - 0.3985 - 0.3984 - 0.3985 - 0.3984 - 0.3982 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3980 - 0.3979 - 0.3980 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 -	accuracy:	0.8316 - 0.8299 - 0.8299 - 0.8281 -	val_loss:	0.5255 0.5253 0.5253 0.5253 0.5253 0.5254 0.5253 0.5253 0.5254 0.5255 0.5255 0.5256 0.5256 0.5257 0.5257 0.5257 0.5259 0.5258 0.5259 0.5259 0.5259 0.5259 0.5259 0.5258 0.5259 0.5259 0.5259 0.5259	- val_accuracy:	0.7396 0.7396
18/18 Epoch 18/18	679/1500 [9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Ams/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 6ms/step 4ms/step 4ms/step 5ms/step	- loss:	0.3984 - 0.3985 - 0.3984 - 0.3985 - 0.3984 - 0.3982 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3981 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 - 0.3980 - 0.3979 -	accuracy:	0.8316 - 0.8299 - 0.8299 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8316 - 0.8281 - 0.8316 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 - 0.8281 -	val_loss:	0.5255 0.5253 0.5253 0.5253 0.5254 0.5253 0.5254 0.5255 0.5255 0.5255 0.5256 0.5257 0.5257 0.5258 0.5257	- val_accuracy:	0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch	679/1508 [9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Ams/step Sms/step 4ms/step 4ms/step 4ms/step 5ms/step 6ms/step 4ms/step 6ms/step 4ms/step 5ms/step 4ms/step 5ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step	- loss:	0.3984 - 0.3985 - 0.3984 - 0.3985 - 0.3984 - 0.3982 - 0.3981 - 0.3	accuracy:	0.8316 - 0.8299 - 0.8299 - 0.8281 - 0.8289 -	val_loss:	0.5255 0.5253 0.5253 0.5253 0.5254 0.5254 0.5255 0.5255 0.5256 0.5257 0.5257 0.5257 0.5257 0.5258 0.5258 0.5258 0.5258 0.5258 0.5258 0.5258 0.5258 0.5258 0.5258 0.5258 0.5258 0.5258	- val_accuracy:	8.7396 8.7396

	705/1500 []	- 6	ðs.	4ms/step	-	loss:	0.3978 -	accur	acy:	0.8281 -	val_loss:	0.5260 -	val_accuracy:	0.7396
	706/1500 []	- 6	as	5ms/sten	_	loss:	0.3978 -	accur	acv:	0.8264 -	val loss:	0.5258 -	val accuracy:	0.7396
Epoch	707/1500													
	[=======] 708/1500	- 6	ØS	5ms/step	-	loss:	0.39/6 -	accur	acy:	0.8299 -	val_loss:	0.5256 -	val_accuracy:	0.7396
	[======] 709/1500	- 6	ðs.	4ms/step	-	loss:	0.3977 -	accur	acy:	0.8281 -	val_loss:	0.5258 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	4ms/step	-	loss:	0.3976 -	accur	acy:	0.8281 -	val_loss:	0.5259 -	val_accuracy:	0.7448
	710/1500 []	- 6	ðs.	5ms/step	_	loss:	0.3976 -	accur	acy:	0.8281 -	val_loss:	0.5257 -	val_accuracy:	0.7396
	711/1500	- 6	as	5ms/sten	_	loss:	0.3976 -	accur	acv:	0.8299 -	val loss:	0.5258 -	val accuracy:	0.7448
Epoch	712/1500													
Epoch	[=======] 713/1500													
	[======] 714/1500	- 6	ðs.	5ms/step	-	loss:	0.3975 -	accur	acy:	0.8281 -	val_loss:	0.5260 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	5ms/step	-	loss:	0.3974 -	accur	acy:	0.8281 -	val_loss:	0.5260 -	val_accuracy:	0.7396
	715/1500 []	- 6	ðs.	5ms/step	-	loss:	0.3974 -	accur	acy:	0.8281 -	val_loss:	0.5259 -	val_accuracy:	0.7396
	716/1500	- 6	as	Ams/sten	_	loss.	0 3974 -	accur	acv.	0 8281 -	val loss:	0 5259 -	val accuracy:	0 7396
Epoch	717/1500								-		_			
	[=======] 718/1500	- 6	ØS	5ms/step	-	loss:	0.39/3 -	accur	acy:	0.8281 -	val_loss:	0.5261 -	val_accuracy:	0.7396
	[=======] 719/1500	- 6	ðs.	5ms/step	-	loss:	0.3975 -	accur	acy:	0.8281 -	val_loss:	0.5261 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	5ms/step	-	loss:	0.3975 -	accur	acy:	0.8299 -	val_loss:	0.5260 -	val_accuracy:	0.7448
18/18	720/1500 [========]	- 6	ðs.	4ms/step	-	loss:	0.3977 -	accur	acy:	0.8264 -	val_loss:	0.5261 -	val_accuracy:	0.7448
	721/1500 [=======]	- 6	ðs.	5ms/step	_	loss:	0.3974 -	accur	acy:	0.8281 -	val loss:	0.5262 -	val accuracy:	0.7448
	722/1500		20	Emc/ston		1000	0 2074	accun	2011	a 0201	val loce:	0 5262	val accuracy:	0 7//0
Epoch	[=======] 723/1500													
	[=====================================	- 6	ðs.	5ms/step	-	loss:	0.3973 -	accur	acy:	0.8264 -	val_loss:	0.5263 -	val_accuracy:	0.7396
	[======] 725/1500	- 6	ðs.	4ms/step	-	loss:	0.3973 -	accur	acy:	0.8281 -	val_loss:	0.5264 -	val_accuracy:	0.7448
18/18	[]	- 6	ðs.	4ms/step	-	loss:	0.3973 -	accur	acy:	0.8264 -	val_loss:	0.5261 -	val_accuracy:	0.7448
	726/1500 []	- 6	ðs.	4ms/step	_	loss:	0.3972 -	accur	acy:	0.8281 -	val_loss:	0.5262 -	val_accuracy:	0.7448
Epoch	727/1500													
Epoch	728/1500													
	[=======] 729/1500	- 6	ðs.	4ms/step	-	loss:	0.3973 -	accur	acy:	0.8299 -	val_loss:	0.5262 -	val_accuracy:	0.7396
	[======] 730/1500	- 6	ðs.	4ms/step	-	loss:	0.3973 -	accur	acy:	0.8247 -	val_loss:	0.5264 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	5ms/step	-	loss:	0.3974 -	accur	acy:	0.8281 -	val_loss:	0.5269 -	val_accuracy:	0.7396
	731/1500 [========]	- 6	ðs.	4ms/step	-	loss:	0.3970 -	accur	acy:	0.8281 -	val_loss:	0.5267 -	val_accuracy:	0.7396
	732/1500	- 6	as	Ams/sten	_	loss.	0 3971 -	accur	acv.	0 8281 -	val loss:	0 5265 -	val accuracy:	0 7396
Epoch	733/1500													
	[=======] 734/1500	- 6	ØS	5ms/step	-	loss:	0.3969 -	accur	acy:	0.8299 -	val_loss:	0.5262 -	val_accuracy:	0.7448
	[======] 735/1500	- 6	ðs.	4ms/step	-	loss:	0.3972 -	accur	acy:	0.8281 -	val_loss:	0.5265 -	val_accuracy:	0.7448
18/18	[]	- 6	ðs.	6ms/step	-	loss:	0.3971 -	accur	acy:	0.8281 -	val_loss:	0.5265 -	val_accuracy:	0.7448
	736/1500 [========]	- 6	ðs.	5ms/step	-	loss:	0.3971 -	accur	acy:	0.8281 -	val_loss:	0.5267 -	val_accuracy:	0.7448
	737/1500	- 6	as	5ms/sten	_	loss.	и заба -	accur	acv.	0 8264 -	val loss:	0 5269 -	val accuracy:	0 7396
Epoch	738/1500													
	[=======] 739/1500	- 6	05	Sms/step	-	1055:	0.39/0 -	accur	acy:	0.8281 -	vai_ioss:	0.5269 -	vai_accuracy:	0.7396
	[=======] 740/1500	- 6	ðs.	5ms/step	-	loss:	0.3969 -	accur	acy:	0.8264 -	val_loss:	0.5268 -	val_accuracy:	0.7396
18/18	[========] 741/1500	- 6	ðs.	5ms/step	-	loss:	0.3969 -	accur	acy:	0.8281 -	val_loss:	0.5269 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	5ms/step	-	loss:	0.3971 -	accur	acy:	0.8281 -	val_loss:	0.5270 -	val_accuracy:	0.7396
	742/1500 [=======]	- 6	ðs.	4ms/step	_	loss:	0.3969 -	accur	acy:	0.8299 -	val loss:	0.5270 -	val accuracy:	0.7396
Epoch	743/1500 []								-		_			
Epoch	744/1500													
	[========] 745/1500	- 6	ðs.	4ms/step	-	loss:	0.3967 -	accur	acy:	0.8281 -	val_loss:	0.5266 -	val_accuracy:	0.7396
18/18	[======] 746/1500	- 6	ðs.	5ms/step	-	loss:	0.3967 -	accur	acy:	0.8281 -	val_loss:	0.5267 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	5ms/step	-	loss:	0.3968 -	accur	acy:	0.8299 -	val_loss:	0.5267 -	val_accuracy:	0.7396
	747/1500 []	- 6	ðs.	4ms/step	_	loss:	0.3968 -	accur	acy:	0.8281 -	val loss:	0.5269 -	val accuracy:	0.7396
Epoch	748/1500 [======]													
Epoch	749/1500										_			
	[=======] 750/1500	- 6	ðs.	5ms/step	-	loss:	0.3967 -	accur	acy:	0.8264 -	val_loss:	0.5271 -	val_accuracy:	0.7396
18/18 Enoch	[======] 751/1500	- 6	ðs.	5ms/step	-	loss:	0.3967 -	accur	acy:	0.8281 -	val_loss:	0.5273 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	6ms/step	-	loss:	0.3967 -	accur	acy:	0.8281 -	val_loss:	0.5271 -	val_accuracy:	0.7396
18/18	752/1500 []	- 6	ðs.	4ms/step	_	loss:	0.3967 -	accur	acy:	0.8299 -	val_loss:	0.5268 -	val_accuracy:	0.7396
	753/1500 []	- 6	as	5ms/sten	_	loss:	0.3966 -	accur	acv:	0.8247 -	val loss:	0.5269 -	val accuracy:	0.7396
Epoch	754/1500													
	[=======] 755/1500	- 6	ØS	5ms/step	-	loss:	0.396/ -	accur	acy:	0.8299 -	val_loss:	0.52/1 -	val_accuracy:	0.7396
	[======] 756/1500	- 6	ðs.	5ms/step	-	loss:	0.3966 -	accur	acy:	0.8281 -	val_loss:	0.5272 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	4ms/step	-	loss:	0.3967 -	accur	acy:	0.8281 -	val_loss:	0.5273 -	val_accuracy:	0.7396
	757/1500 []	- 6	ðs.	5ms/step	_	loss:	0.3965 -	accur	acy:	0.8299 -	val_loss:	0.5272 -	val_accuracy:	0.7396
	758/1500 []	- 6	as	4ms/sten	_	loss:	0.3965 -	accur	acv:	0.8264 -	val loss:	0.5273 -	val accuracy:	0.7396
Epoch	759/1500													
Epoch	[=======] 760/1500													
18/18	[=======] 761/1500	- 6	ðs.	4ms/step	-	loss:	0.3965 -	accur	acy:	0.8281 -	val_loss:	0.5273 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	4ms/step	-	loss:	0.3964 -	accur	acy:	0.8264 -	val_loss:	0.5273 -	val_accuracy:	0.7396
18/18	762/1500 []	- 6	ðs.	4ms/step	-	loss:	0.3964 -	accur	acy:	0.8299 -	val_loss:	0.5272 -	val_accuracy:	0.7396
Epoch	763/1500 []													
Epoch	764/1500													
Epoch	[=======] 765/1500								-		_			
	[======] 766/1500	- 6	ðs.	4ms/step	-	loss:	0.3963 -	accur	acy:	0.8281 -	val_loss:	0.5273 -	val_accuracy:	0.7396
18/18	[=======]	- 6	ðs.	5ms/step	-	loss:	0.3962 -	accur	acy:	0.8281 -	val_loss:	0.5273 -	val_accuracy:	0.7396
18/18	767/1500 []	- 6	ðs.	5ms/step	-	loss:	0.3964 -	accur	acy:	0.8299 -	val_loss:	0.5273 -	val_accuracy:	0.7396
	768/1500 [======]													
18/19		- 6	-3	/ arch	-		J.JJUZ -	-ccui	y.	J. JEGI -		J.JE/J -	.uaccuracy:	0.7550

Epoch	769/1500										
	[======] 770/1500	- 0s	5ms/step -	loss:	0.3963	- accuracy:	0.8264 -	val_loss:	0.5272 -	val_accuracy:	0.7448
18/18	[======]	- 0s	5ms/step -	loss:	0.3964	- accuracy:	0.8264 -	val_loss:	0.5275 -	val_accuracy:	0.7396
	771/1500 []	- 0s	5ms/step -	loss:	0.3962	- accuracy:	0.8264 -	val loss:	0.5275 -	val accuracy:	0.7448
Epoch	772/1500										
	[======] 773/1500	- 05	Sms/step -	1055:	0.3962	- accuracy:	0.8264 -	val_loss:	0.52// -	vai_accuracy:	0.7396
	[======] 774/1500	- 0s	5ms/step -	loss:	0.3963	- accuracy:	0.8264 -	val_loss:	0.5278 -	val_accuracy:	0.7396
18/18	[]	- 0s	5ms/step -	loss:	0.3962	- accuracy:	0.8299 -	val_loss:	0.5275 -	val_accuracy:	0.7448
	775/1500 []	- 0s	4ms/step -	loss:	0.3962	- accuracy:	0.8264 -	val_loss:	0.5274 -	val_accuracy:	0.7448
	776/1500	- 00	5mc/sten	1000	0 3063	- accuracy:	0 8264 -	val loss:	0 5276 -	val accuracy:	0 7396
Epoch	777/1500					,		_		_ ′	
	[========] 778/1500	- 0s	5ms/step -	· loss:	0.3960	- accuracy:	0.8264 -	val_loss:	0.5277 -	val_accuracy:	0.7396
	[======] 779/1500	- 0s	5ms/step -	loss:	0.3960	- accuracy:	0.8264 -	val_loss:	0.5276 -	val_accuracy:	0.7448
	[======]	- 0s	5ms/step -	loss:	0.3961	- accuracy:	0.8264 -	val_loss:	0.5276 -	val_accuracy:	0.7448
18/18	780/1500 []	- 0s	5ms/step -	loss:	0.3960	- accuracy:	0.8264 -	val_loss:	0.5276 -	val_accuracy:	0.7448
	781/1500 []	- 0s	5ms/step -	loss:	0.3959	- accuracy:	0.8247 -	val_loss:	0.5278 -	val_accuracy:	0.7396
Epoch	782/1500 [======]										
Epoch	783/1500					-		_			
	[=======] 784/1500	- 05	4ms/step -	1055:	0.3962	- accuracy:	0.8264 -	· vai_ioss:	0.52/9 -	vai_accuracy:	0.7396
	[======] 785/1500	- 0s	6ms/step -	loss:	0.3962	- accuracy:	0.8247 -	val_loss:	0.5280 -	val_accuracy:	0.7396
18/18	[=======] 786/1500	- 0s	6ms/step -	loss:	0.3962	- accuracy:	0.8264 -	val_loss:	0.5279 -	val_accuracy:	0.7448
18/18	[======]	- 0s	5ms/step -	loss:	0.3961	- accuracy:	0.8264 -	val_loss:	0.5279 -	val_accuracy:	0.7396
	787/1500 [=======]	- 0s	5ms/step -	loss:	0.3959	- accuracy:	0.8264 -	val_loss:	0.5277 -	val_accuracy:	0.7448
Epoch	788/1500 [======]					-		_			
Epoch	789/1500										
Epoch	[========] 790/1500										
	[=======] 791/1500	- 0s	6ms/step -	loss:	0.3961	- accuracy:	0.8264 -	val_loss:	0.5282 -	val_accuracy:	0.7396
18/18	[]	- 0s	6ms/step -	loss:	0.3958	- accuracy:	0.8264 -	val_loss:	0.5284 -	val_accuracy:	0.7396
18/18	792/1500 [======]	- 0s	6ms/step -	loss:	0.3958	- accuracy:	0.8264 -	val_loss:	0.5283 -	val_accuracy:	0.7396
	793/1500 [=======]	- 0s	6ms/step -	loss:	0.3961	- accuracy:	0.8281 -	val_loss:	0.5282 -	val_accuracy:	0.7396
	794/1500 [======]	- ac	8ms/stan	1000	a 3958	- accuracy.	0 8264 -	- val loss:	0 5281 -	val accuracy:	0.7396
Epoch	795/1500					-		_			
Epoch	[========] 796/1500					-		_			
	[======] 797/1500	- 0s	7ms/step -	loss:	0.3959	- accuracy:	0.8264 -	val_loss:	0.5280 -	val_accuracy:	0.7448
18/18	[]	- 0s	6ms/step -	loss:	0.3958	- accuracy:	0.8281 -	val_loss:	0.5280 -	val_accuracy:	0.7448
18/18	798/1500 []	- 0s	5ms/step -	loss:	0.3958	- accuracy:	0.8264 -	val_loss:	0.5281 -	val_accuracy:	0.7448
	799/1500 []	- 0s	7ms/step -	loss:	0.3957	- accuracy:	0.8247 -	val_loss:	0.5280 -	val_accuracy:	0.7448
Epoch	800/1500 [======]										
Epoch	801/1500					-		_			
	[========] 802/1500	- 0s	8ms/step -	loss:	0.3958	- accuracy:	0.8264 -	val_loss:	0.5281 -	val_accuracy:	0.7448
	[======] 803/1500	- 0s	8ms/step -	loss:	0.3958	- accuracy:	0.8281 -	val_loss:	0.5281 -	val_accuracy:	0.7448
18/18	[]	- 0s	6ms/step -	loss:	0.3956	- accuracy:	0.8264 -	val_loss:	0.5281 -	val_accuracy:	0.7448
18/18	804/1500 []	- 0s	6ms/step -	loss:	0.3955	- accuracy:	0.8264 -	val_loss:	0.5279 -	val_accuracy:	0.7448
Epoch 18/18	805/1500 []	- 0s	5ms/step -	loss:	0.3956	- accuracy:	0.8264 -	val_loss:	0.5280 -	val_accuracy:	0.7448
Epoch	806/1500										
Epoch	807/1500					-		_			
	[========] 808/1500	- US	5ms/step -	· loss:	0.3954	- accuracy:	0.8264 -	· val_loss:	0.5283 -	val_accuracy:	0.7448
	[=======] 809/1500	- 0s	8ms/step -	loss:	0.3955	- accuracy:	0.8264 -	val_loss:	0.5284 -	val_accuracy:	0.7448
	[======] 810/1500	- 0s	10ms/step	- loss	: 0.3956	- accuracy	: 0.8281	- val_loss	: 0.5282	 val_accuracy 	: 0.7448
18/18	[======]	- 0s	6ms/step -	loss:	0.3954	- accuracy:	0.8299 -	val_loss:	0.5279 -	val_accuracy:	0.7448
18/18	811/1500 [======]	- 0s	9ms/step -	loss:	0.3953	- accuracy:	0.8264 -	val_loss:	0.5282 -	val_accuracy:	0.7448
	812/1500 [=======]	- 0s	6ms/step -	· loss:	0.3954	- accuracv:	0.8264 -	val loss:	0.5282 -	val_accuracv:	0.7448
Epoch	813/1500 []										
Epoch	814/1500					-		_			
Epoch	[=======] 815/1500					-		_			
	[======] 816/1500	- 0s	8ms/step -	loss:	0.3955	- accuracy:	0.8281 -	val_loss:	0.5283 -	val_accuracy:	0.7448
18/18	[========] 817/1500	- 0s	11ms/step	- loss	: 0.3954	- accuracy	: 0.8264	- val_loss	: 0.5283	- val_accuracy	: 0.7448
18/18	[]	- 0s	6ms/step -	loss:	0.3952	- accuracy:	0.8264 -	val_loss:	0.5282 -	val_accuracy:	0.7448
18/18	818/1500 [========]	- 0s	8ms/step -	loss:	0.3954	- accuracy:	0.8264 -	val_loss:	0.5282 -	val_accuracy:	0.7448
Epoch	819/1500 [======]					-		_			
Epoch	820/1500										
Epoch	[=======] 821/1500										
18/18			7ms/step -	· loss:	0.3954	accuracy:	0.8264 -	vai_loss:	0.5284 -	val_accuracy:	0.7448
Epoch	[========] 822/1500	- US									
18/18	822/1500 [=======]		8ms/step -	loss:	0.3954	- accuracy:	0.8264 -	val_loss:	0.5287 -	val_accuracy:	0.7448
18/18 Epoch 18/18	822/1500 [] 823/1500 []	- 0s				-		_			
18/18 Epoch 18/18 Epoch 18/18	822/1500 [] 823/1500 [] 824/1500 []	- 0s - 0s	6ms/step -	loss:	0.3952	- accuracy:	0.8264 -	val_loss:	0.5287 -	val_accuracy:	0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch	822/1500 [========] 823/1500 [========] 824/1500	- 0s - 0s - 0s	6ms/step -	loss:	0.3952 0.3954	- accuracy:	0.8264 - 0.8264 -	val_loss:	0.5287 - 0.5284 -	val_accuracy:	0.7448 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	822/1500 [] 823/1500 [] 824/1500 [] 825/1500 [] 826/1500	- 0s - 0s - 0s - 0s	6ms/step - 6ms/step - 4ms/step -	loss:	0.3952 0.3954 0.3951	- accuracy: - accuracy: - accuracy:	0.8264 - 0.8264 -	val_loss: val_loss: val_loss:	0.5287 - 0.5284 - 0.5285 -	val_accuracy: val_accuracy: val_accuracy:	0.7448 0.7448 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	822/1500 [] 823/1500 [] 824/1500 [] 825/1500 [] 825/1500 [] 826/1500	- 0s - 0s - 0s - 0s - 0s	6ms/step - 6ms/step - 4ms/step - 4ms/step -	loss: loss: loss:	0.3952 0.3954 0.3951 0.3952	- accuracy: - accuracy: - accuracy: - accuracy:	0.8264 - 0.8264 - 0.8264 -	val_loss: val_loss: val_loss: val_loss:	0.5287 - 0.5284 - 0.5285 - 0.5289 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7448 0.7448 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	822/1500 [] 823/1500 [] 824/1500 [] 825/1500 [] 826/1500	- 0s - 0s - 0s - 0s - 0s	6ms/step - 6ms/step - 4ms/step - 4ms/step -	loss: loss: loss:	0.3952 0.3954 0.3951 0.3952	- accuracy: - accuracy: - accuracy: - accuracy:	0.8264 - 0.8264 - 0.8264 -	val_loss: val_loss: val_loss: val_loss:	0.5287 - 0.5284 - 0.5285 - 0.5289 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7448 0.7448 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	822/1500 [===================================	- 0s - 0s - 0s - 0s - 0s	6ms/step - 6ms/step - 4ms/step - 4ms/step - 5ms/step -	loss: loss: loss: loss: loss:	0.3952 0.3954 0.3951 0.3952 0.3951	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.8264 - 0.8264 - 0.8264 - 0.8264 -	val_loss: val_loss: val_loss: val_loss: val_loss:	0.5287 - 0.5284 - 0.5285 - 0.5289 - 0.5290 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7448 0.7448 0.7448 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	822/1500 [] 823/1500 [] 825/1500 [] 826/1500 [] 827/1500 [] 827/1500 [] 827/1500 [] 827/1500	- 0s	6ms/step - 6ms/step - 4ms/step - 5ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss:	0.3952 0.3954 0.3951 0.3952 0.3951 0.3953	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.5287 - 0.5284 - 0.5285 - 0.5289 - 0.5290 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7448 0.7448 0.7448 0.7448 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	822/1500 [- 0s	6ms/step - 6ms/step - 4ms/step - 4ms/step - 5ms/step - 4ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss:	0.3952 0.3954 0.3951 0.3952 0.3951 0.3953 0.3952	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.5287 - 0.5284 - 0.5285 - 0.5289 - 0.5290 - 0.5285 - 0.5283 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7448 0.7448 0.7448 0.7448 0.7448 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	822/1500 [- 0s	6ms/step - 6ms/step - 4ms/step - 4ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss:	0.3952 0.3954 0.3951 0.3952 0.3951 0.3953 0.3952	- accuracy:	0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8281 - 0.8264 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.5287 - 0.5284 - 0.5285 - 0.5289 - 0.5290 - 0.5285 - 0.5283 - 0.5282 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	822/1500 [- 0s	6ms/step - 6ms/step - 4ms/step - 4ms/step - 5ms/step - 5ms/step - 5ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss: loss: loss:	0.3952 0.3954 0.3951 0.3952 0.3951 0.3953 0.3952 0.3952	- accuracy:	0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 - 0.8264 -	val_loss:	0.5287 - 0.5284 - 0.5285 - 0.5289 - 0.5290 - 0.5285 - 0.5283 - 0.5283 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448

	833/1500											
Epoch	[=====================================						-		_			
	[=====================================] -	0s	5ms/step	- loss:	0.3950 -	accuracy:	0.8264 -	val_loss:	0.5285	- val_accuracy:	0.7448
	[=====================================] -	0s	6ms/step	- loss:	0.3949 -	accuracy:	0.8264 -	val_loss:	0.5286	- val_accuracy:	0.7448
18/18	[=====================================] -	0s	5ms/step	- loss:	0.3949 -	accuracy:	0.8264 -	val_loss:	0.5283	- val_accuracy:	0.7448
18/18	[] -	0s	4ms/step	- loss:	0.3949 -	accuracy:	0.8264 -	val_loss:	0.5286	- val_accuracy:	0.7448
18/18	838/1500] -	0s	5ms/step	- loss:	0.3950 -	accuracy:	0.8264 -	val_loss:	0.5286	- val_accuracy:	0.7448
	839/1500 [===================================] -	0s	4ms/step	- loss:	0.3948 -	accuracy:	0.8281 -	val_loss:	0.5287	- val_accuracy:	0.7448
	840/1500 [========	1 -	0s	4ms/step	- loss:	0.3948 -	- accuracy:	0.8264 -	val loss:	0.5287	- val accuracy:	0.7448
Epoch	841/1500						_		_			
Epoch	842/1500 [=======						-		_			
Epoch	843/1500											
Epoch	[=====================================						-		_			
Epoch	[=====================================											
	[=====================================] -	0s	4ms/step	- loss:	0.3949 -	accuracy:	0.8264 -	val_loss:	0.5284	- val_accuracy:	0.7448
	[=====================================] -	0s	5ms/step	- loss:	0.3948 -	accuracy:	0.8264 -	val_loss:	0.5288	- val_accuracy:	0.7448
18/18	[=====================================] -	0s	5ms/step	- loss:	0.3948 -	accuracy:	0.8264 -	val_loss:	0.5289	- val_accuracy:	0.7448
18/18	[=====================================] -	0s	5ms/step	- loss:	0.3945 -	accuracy:	0.8281 -	val_loss:	0.5287	- val_accuracy:	0.7448
18/18	[] -	0s	4ms/step	- loss:	0.3947 -	accuracy:	0.8247 -	val_loss:	0.5291	- val_accuracy:	0.7448
18/18	850/1500 [] -	0s	5ms/step	- loss:	0.3946 -	accuracy:	0.8281 -	val_loss:	0.5290	- val_accuracy:	0.7448
	851/1500 [===================================] -	0s	5ms/step	- loss:	0.3947 -	accuracy:	0.8264 -	val_loss:	0.5290	- val_accuracy:	0.7448
	852/1500 [========] -	0s	5ms/step	- loss:	0.3946 -	accuracy:	0.8264 -	val_loss:	0.5291	- val_accuracy:	0.7448
Epoch	853/1500 [-		_			
Epoch	854/1500 [=======											
Epoch	855/1500 [=======						-		_			
Epoch	856/1500						-		_			
Epoch	[=====================================											
	[=====================================] -	0s	5ms/step	- loss:	0.3947 -	accuracy:	0.8264 -	· val_loss:	0.5294	- val_accuracy:	0.7396
	[=====================================] -	0s	5ms/step	- loss:	0.3945 -	accuracy:	0.8281 -	val_loss:	0.5293	- val_accuracy:	0.7396
18/18	[======================================] -	0s	5ms/step	- loss:	0.3946 -	accuracy:	0.8264 -	val_loss:	0.5293	- val_accuracy:	0.7396
18/18	[=====================================] -	0s	4ms/step	- loss:	0.3944 -	accuracy:	0.8281 -	val_loss:	0.5292	<pre>- val_accuracy:</pre>	0.7448
18/18	[=====================================] -	0s	5ms/step	- loss:	0.3944 -	accuracy:	0.8264 -	val_loss:	0.5292	- val_accuracy:	0.7448
18/18	[] -	0s	5ms/step	- loss:	0.3946 -	accuracy:	0.8264 -	val_loss:	0.5294	- val_accuracy:	0.7396
18/18	863/1500] -	0s	4ms/step	- loss:	0.3945 -	accuracy:	0.8281 -	val_loss:	0.5292	- val_accuracy:	0.7448
18/18	864/1500 [] -	0s	5ms/step	- loss:	0.3944 -	accuracy:	0.8264 -	val_loss:	0.5293	- val_accuracy:	0.7396
	865/1500 [===================================] -	0s	4ms/step	- loss:	0.3943 -	accuracy:	0.8264 -	val_loss:	0.5294	- val_accuracy:	0.7396
	866/1500 [===================================] -	0s	4ms/step	- loss:	0.3944 -	accuracy:	0.8264 -	val_loss:	0.5294	- val_accuracy:	0.7396
	867/1500 [========] -	0s	4ms/step	- loss:	0.3944 -	accuracy:	0.8264 -	val_loss:	0.5298	- val_accuracy:	0.7396
Epoch	868/1500 [
Epoch	869/1500 [=======											
Epoch	870/1500 [=======											
Epoch	871/1500 [_		_			
Epoch	872/1500	-					,		_			
Epoch	[=====================================						_		_			
	[=====================================] -	0s	5ms/step	- loss:	0.3944 -	accuracy:	0.8264 -	val_loss:	0.5294	- val_accuracy:	0.7396
	[=====================================] -	0s	5ms/step	- loss:	0.3944 -	accuracy:	0.8264 -	val_loss:	0.5292	- val_accuracy:	0.7448
18/18	[=====================================] -	0s	5ms/step	- loss:	0.3943 -	accuracy:	0.8264 -	val_loss:	0.5294	- val_accuracy:	0.7396
18/18	[=====================================] -	0s	4ms/step	- loss:	0.3942 -	accuracy:	0.8264 -	val_loss:	0.5293	<pre>- val_accuracy:</pre>	0.7396
18/18	[=====================================] -	0s	5ms/step	- loss:	0.3944 -	accuracy:	0.8264 -	val_loss:	0.5292	- val_accuracy:	0.7396
18/18	[] -	0s	5ms/step	- loss:	0.3942 -	accuracy:	0.8264 -	val_loss:	0.5297	- val_accuracy:	0.7396
18/18	879/1500 [=======] -	0s	4ms/step	- loss:	0.3942 -	accuracy:	0.8281 -	val_loss:	0.5295	- val_accuracy:	0.7396
18/18	880/1500 [===================================] -	0s	5ms/step	- loss:	0.3942 -	accuracy:	0.8264 -	val_loss:	0.5293	- val_accuracy:	0.7396
	881/1500 [===================================] -	0s	6ms/step	- loss:	0.3941 -	accuracy:	0.8264 -	val_loss:	0.5294	- val_accuracy:	0.7396
	882/1500 [========] -	0s	5ms/step	- loss:	0.3941 -	accuracy:	0.8264 -	val_loss:	0.5295	- val_accuracy:	0.7396
Epoch	883/1500 [
Epoch	884/1500 [=======											
Epoch	885/1500											
Epoch	[=====================================											
Epoch	[=====================================						-		_			
18/18	[] -	0s				-		_			
	888/1500			Ame /cton	- loss:	0.3939 -	accuracy:	0.8264 -	_	0.5299	- val_accuracy:	
18/18 Epoch	[=====================================											
18/18 Epoch 18/18	[=====================================				- loss:	0.3940 -	accuracy:	0.8299 -	val_loss:	0.5298	- val_accuracy:	0.7448
18/18 Epoch 18/18 Epoch 18/18	[] -	0s	5ms/step								
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] -	0s 0s	5ms/step	- loss:	0.3940 -	accuracy:	0.8264 -	val_loss:	0.5298	- val_accuracy:	0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step	- loss: - loss:	0.3940 - 0.3940 -	accuracy:	0.8264 - 0.8264 -	val_loss:	0.5298 0.5298	val_accuracy:val_accuracy:	0.7448 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[] -] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step	- loss: - loss: - loss:	0.3940 - 0.3940 - 0.3941 -	accuracy: accuracy:	0.8264 - 0.8264 - 0.8281 -	val_loss: val_loss: val_loss:	0.5298 0.5298 0.5296	val_accuracy:val_accuracy:val_accuracy:	0.7448 0.7396 0.7448
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] -] -] -	0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step	- loss: - loss: - loss: - loss:	0.3940 - 0.3940 - 0.3941 - 0.3939 -	accuracy: accuracy: accuracy: accuracy:	0.8264 - 0.8264 - 0.8281 - 0.8264 -	val_loss: val_loss: val_loss: val_loss:	0.5298 0.5298 0.5296 0.5299	val_accuracy:val_accuracy:val_accuracy:	0.7448 0.7396 0.7448 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================	-] -] -] -	0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 4ms/step	- loss: - loss: - loss: - loss: - loss:	0.3940 - 0.3940 - 0.3941 - 0.3939 - 0.3940 -	accuracy: accuracy: accuracy: accuracy:	0.8264 - 0.8264 - 0.8264 - 0.8264 -	val_loss: val_loss: val_loss: val_loss: val_loss:	0.5298 · 0.5298 · 0.5296 · 0.5299 · 0.5301 ·	- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:	0.74480.73960.74480.73960.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[] -] -] -	0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 4ms/step 4ms/step	- loss: - loss: - loss: - loss: - loss: - loss:	0.3940 - 0.3940 - 0.3941 - 0.3939 - 0.3940 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.8264 - 0.8281 - 0.8264 - 0.8264 - 0.8264 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.5298 0.5298 0.5296 0.5299 0.5301 0.5300	- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:	0.7448 0.7396 0.7448 0.7396 0.7396

	897/1500 [=========	1 - As	Ams/sten	- loss.	o 3937 -	accuracy:	0 8264	- val loss:	0 5300	- val accuracy:	0 7396
Epoch	898/1500					-		_			
	[======================================] - 0s	4ms/step	- loss:	0.3940 -	accuracy:	0.8264	- val_loss:	0.5302	- val_accuracy:	0.7396
	[======================================] - 0s	5ms/step	- loss:	0.3939 -	accuracy:	0.8264	- val_loss:	0.5302	val_accuracy:	0.7396
	900/1500 [=============] - 0s	5ms/step	- loss:	0.3938 -	accuracy:	0.8281	- val_loss:	0.5300	- val_accuracy:	0.7396
	901/1500 [=========	1 - 00	6ms/sten	- 1000	0 3038 -	accuracy:	0 8264	- val loss:	0 5302	- val accuracy:	0 73//
Epoch	902/1500					-		_			
	[======================================] - 0s	4ms/step	- loss:	0.3938 -	accuracy:	0.8264	- val_loss:	0.5305	- val_accuracy:	0.7344
18/18	[=========] - 0s	7ms/step	- loss:	0.3940 -	accuracy:	0.8281	- val_loss:	0.5305	- val_accuracy:	0.7344
	904/1500 [=========	1 - 0s	5ms/step	- loss:	0.3939 -	accuracy:	0.8264	- val loss:	0.5306	- val accuracy:	0.7344
Epoch	905/1500	•						_		- 1	
	[======================================] - 0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8264	- val_loss:	0.5306	- val_accuracy:	0./344
	[=====================================] - 0s	5ms/step	- loss:	0.3937 -	accuracy:	0.8264	- val_loss:	0.5307	val_accuracy:	0.7344
	90//1500 [===================================] - 0s	4ms/step	- loss:	0.3937 -	accuracy:	0.8281	- val_loss:	0.5305	- val_accuracy:	0.7344
	908/1500 [1 - As	5ms/sten	- loss:	a 3936 -	accuracy:	g 8247	- val loss:	0 5306	- val accuracy:	0 7344
Epoch	909/1500										
	[======================================] - 0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8264	- val_loss:	0.5308	- val_accuracy:	0.7344
18/18	[=========] - 0s	4ms/step	- loss:	0.3937 -	accuracy:	0.8264	- val_loss:	0.5304	val_accuracy:	0.7344
	911/1500 [] - 0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8264	- val_loss:	0.5303	- val_accuracy:	0.7344
	912/1500	1 00	- Fmc/cton	10001	0 2025		0.0264	- wal lasse	0 5204		0.7244
	[=====================================	J - 0S	Sms/step	- 1055:	0.3935 -	accuracy:	0.8264	- vai_ioss:	0.5304	- vai_accuracy:	0.7344
	[======================================] - 0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8264	- val_loss:	0.5303	- val_accuracy:	0.7344
18/18	[==========] - 0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8247	- val_loss:	0.5304	- val_accuracy:	0.7344
	915/1500 [=========] - 0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8247	- val loss:	0.5306	- val accuracy:	0.7344
Epoch	916/1500	_				-		_			
Epoch	[=====================================										
	[=====================================] - 0s	5ms/step	- loss:	0.3937 -	accuracy:	0.8264	- val_loss:	0.5305	val_accuracy:	0.7344
18/18	[=========] - 0s	6ms/step	- loss:	0.3934 -	accuracy:	0.8264	- val_loss:	0.5305	- val_accuracy:	0.7344
	919/1500 [========] - 00	5ms/sten	-]nss:	0.3936 -	accuracy.	0.8247	- val loss.	0.5306	- val accuracy:	0.7344
Epoch	920/1500	•				,		_		_ ′	
	[======================================] - 0s	4ms/step	- loss:	0.3933 -	accuracy:	0.8264	- val_loss:	0.5304	- val_accuracy:	0.7344
18/18	[] - 0s	4ms/step	- loss:	0.3935 -	accuracy:	0.8264	- val_loss:	0.5301	val_accuracy:	0.7396
	922/1500 [===================================] - 0s	5ms/step	- loss:	0.3933 -	accuracy:	0.8247	- val_loss:	0.5305	- val_accuracy:	0.7344
Epoch	923/1500 [
Epoch	924/1500										
	[======================================] - 0s	5ms/step	- loss:	0.3932 -	accuracy:	0.8247	- val_loss:	0.5312	- val_accuracy:	0.7344
18/18	[=========] - 0s	5ms/step	- loss:	0.3933 -	accuracy:	0.8247	- val_loss:	0.5314	- val_accuracy:	0.7344
	926/1500 [=========] - 0s	5ms/step	- loss:	0.3934 -	accuracy:	0.8264	- val loss:	0.5310	- val accuracy:	0.7344
Epoch	927/1500					-		_			
	[=====================================] - 05	4ms/step	- 1055:	0.3933 -	accuracy:	0.0247	- Val_1055:	0.5510	- vai_accuracy:	0.7344
	[======================================] - 0s	5ms/step	- loss:	0.3932 -	accuracy:	0.8281	- val_loss:	0.5309	val_accuracy:	0.7344
18/18	[] - 0s	4ms/step	- loss:	0.3932 -	accuracy:	0.8299	- val_loss:	0.5311	- val_accuracy:	0.7344
	930/1500 [=========	1 - 0s	4ms/step	- loss:	0.3931 -	accuracy:	0.8247	- val loss:	0.5314	- val accuracy:	0.7344
Epoch	931/1500					-		_			
	[=====================================] - 0s	5ms/step	- loss:	0.3929 -	accuracy:	0.8281	- val_loss:	0.5312	- val_accuracy:	0.7344
	[=====================================] - 0s	8ms/step	- loss:	0.3930 -	accuracy:	0.8264	- val_loss:	0.5312	val_accuracy:	0.7344
	[=========] - 0s	7ms/step	- loss:	0.3930 -	accuracy:	0.8281	- val_loss:	0.5315	- val_accuracy:	0.7344
	934/1500 [=========	1 - 05	6ms/sten	- loss:	0.3931 -	accuracy:	0.8299	- val loss:	0.5312	- val accuracy:	0.7344
Epoch	935/1500					-		_			
	[======================================] - 0s	6ms/step	- loss:	0.3928 -	accuracy:	0.8299	- val_loss:	0.5311	- val_accuracy:	0.7344
	[=====================================] - 0s	6ms/step	- loss:	0.3930 -	accuracy:	0.8264	- val_loss:	0.5313	val_accuracy:	0.7344
	[=====================================] - 0s	6ms/step	- loss:	0.3928 -	2001112011					
	938/1500 [1 - As	7ms/sten			accuracy.	0.8264	- val_loss:	0.5314	val_accuracy:	0.7344
Epoch	939/1500	, 03		-]0551	0.3928 -						
	[======================================					accuracy:	0.8281	- val_loss:	0.5314	- val_accuracy:	0.7344
	940/1500] - 0s				accuracy:	0.8281	- val_loss:	0.5314	- val_accuracy:	0.7344
Enach	[=========		7ms/step	- loss:	0.3927 -	accuracy:	0.8281 0.8264	- val_loss: - val_loss:	0.5314 0.5315	val_accuracy:val_accuracy:	0.7344 0.7344
18/18	[941/1500 [] - 0s	7ms/step 7ms/step	- loss: - loss:	0.3927 - 0.3927 -	accuracy: accuracy:	0.8281 0.8264 0.8281	<pre>- val_loss: - val_loss: - val_loss:</pre>	0.5314 0.5315 0.5316	val_accuracy:val_accuracy:val_accuracy:	0.7344 0.7344 0.7344
18/18 Epoch	[=====================================] - 0s] - 0s	7ms/step 7ms/step 6ms/step	- loss: - loss: - loss:	0.3927 - 0.3927 - 0.3925 -	accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281	<pre>- val_loss: - val_loss: - val_loss: - val_loss:</pre>	0.5314 0.5315 0.5316 0.5315	val_accuracy:val_accuracy:val_accuracy:	0.7344 0.7344 0.7344 0.7344
18/18 Epoch 18/18 Epoch	[=====================================] - 0s] - 0s] - 0s	7ms/step 7ms/step 6ms/step 6ms/step	- loss: - loss: - loss: - loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 -	accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281 0.8299	<pre>- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:</pre>	0.5314 0.5315 0.5316 0.5315 0.5315	val_accuracy:val_accuracy:val_accuracy:val_accuracy:val_accuracy:	0.7344 0.7344 0.7344 0.7344
18/18 Epoch 18/18 Epoch 18/18	[=====================================] - 0s] - 0s] - 0s	7ms/step 7ms/step 6ms/step 6ms/step	- loss: - loss: - loss: - loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 -	accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281 0.8299	<pre>- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:</pre>	0.5314 0.5315 0.5316 0.5315 0.5315	val_accuracy:val_accuracy:val_accuracy:val_accuracy:val_accuracy:	0.7344 0.7344 0.7344 0.7344
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] - 0s] - 0s] - 0s] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step	- loss: - loss: - loss: - loss: - loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3928 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281 0.8299 0.8299	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5314 0.5315 0.5316 0.5315 0.5315 0.5314	val_accuracy:val_accuracy:val_accuracy:val_accuracy:val_accuracy:val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] - 0s] - 0s] - 0s] - 0s] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step 6ms/step	- loss: - loss: - loss: - loss: - loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3928 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5315 0.5314 0.5318	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================] - 0s] - 0s] - 0s] - 0s] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step 6ms/step 7ms/step	- loss: - loss: - loss: - loss: - loss: - loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3928 - 0.3926 - 0.3924 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281 0.8299 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5315 0.5314 0.5318	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================] - 0s] - 0s] - 0s] - 0s] - 0s] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step 6ms/step 7ms/step 7ms/step	- loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3928 - 0.3926 - 0.3926 - 0.3925 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281 0.8299 0.8299 0.8281	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5314 0.5318 0.5318 0.5318	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] - 0s] - 0s] - 0s] - 0s] - 0s] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step 6ms/step 7ms/step 7ms/step	- loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3928 - 0.3926 - 0.3926 - 0.3925 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281 0.8299 0.8299 0.8281	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5314 0.5318 0.5318 0.5318	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step 7ms/step 8ms/step 6ms/step 6ms/step	- loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3928 - 0.3926 - 0.3924 - 0.3925 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8281 0.8264 0.8281 0.8281 0.8299 0.8299 0.8299 0.8281 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5314 0.5318 0.5315 0.5317	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step 7ms/step	- loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3928 - 0.3926 - 0.3924 - 0.3925 - 0.3924 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5315 0.5314 0.5318 0.5318 0.5317 0.5316	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step	- loss:	0.3927 - 0.3925 - 0.3928 - 0.3928 - 0.3926 - 0.3924 - 0.3925 - 0.3926 - 0.3923 - 0.3921 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5314 0.5318 0.5318 0.5318 0.5318 0.5318	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step 7ms/step 8ms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3927 - 0.3925 - 0.3928 - 0.3928 - 0.3924 - 0.3925 - 0.3925 - 0.3921 - 0.3921 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5314 0.5318 0.5315 0.5316 0.5317	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 5ms/step 7ms/step 8ms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3927 - 0.3925 - 0.3928 - 0.3928 - 0.3924 - 0.3925 - 0.3925 - 0.3921 - 0.3921 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5314 0.5318 0.5315 0.5316 0.5317	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step 6ms/step 5ms/step 6ms/step 6ms/step	- loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3926 - 0.3925 - 0.3926 - 0.3926 - 0.3921 - 0.3924 - 0.3922 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5315 0.5318 0.5318 0.5316 0.5318 0.5318 0.5317	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396
18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step	- loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3926 - 0.3924 - 0.3925 - 0.3921 - 0.3921 - 0.3922 - 0.3922 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5315 0.5315 0.5314 0.5318 0.5317 0.5318 0.5317 0.5316 0.5317 0.5318	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step	- loss:	0.3927 - 0.3925 - 0.3928 - 0.3926 - 0.3924 - 0.3925 - 0.3926 - 0.3921 - 0.3921 - 0.3922 - 0.3922 - 0.3922 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5314 0.5314 0.5318 0.5317 0.5316 0.5317 0.5316 0.5317 0.5317 0.5320	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step	- loss:	0.3927 - 0.3925 - 0.3928 - 0.3926 - 0.3926 - 0.3926 - 0.3921 - 0.3921 - 0.3922 - 0.3922 - 0.3922 - 0.3919 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8299 0.8281 0.8299	- val_loss:	0.5314 0.5315 0.5315 0.5315 0.5314 0.5314 0.5318 0.5316 0.5316 0.5316 0.5316 0.5317 0.5316 0.5321 0.5322	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step	- loss:	0.3927 - 0.3925 - 0.3928 - 0.3926 - 0.3926 - 0.3926 - 0.3921 - 0.3921 - 0.3922 - 0.3922 - 0.3922 - 0.3919 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8299 0.8281 0.8299	- val_loss:	0.5314 0.5315 0.5315 0.5315 0.5314 0.5314 0.5318 0.5316 0.5316 0.5316 0.5316 0.5317 0.5316 0.5321 0.5322	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 5ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step 7ms/step	- loss:	0.3927 - 0.3927 - 0.3928 - 0.3928 - 0.3926 - 0.3926 - 0.3921 - 0.3921 - 0.3921 - 0.3922 - 0.3920 - 0.3921 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5314 0.5318 0.5318 0.5318 0.5317 0.5318 0.5318 0.5318 0.5317 0.5318 0.5312 0.5322 0.5322	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 5ms/step 5ms/step 7ms/step 7ms/step 5ms/step	- loss:	0.3927 - 0.3927 - 0.3928 - 0.3928 - 0.3926 - 0.3926 - 0.3923 - 0.3921 - 0.3924 - 0.3922 - 0.3922 - 0.3929 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 - 0.3921 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5318 0.5318 0.5318 0.5317 0.5316 0.5318 0.5317 0.5316 0.5317 0.5312 0.5322 0.5322 0.5322	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7346 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 1ms/step 11ms/step	- loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3926 - 0.3924 - 0.3925 - 0.3921 - 0.3924 - 0.3922 - 0.3922 - 0.3920 - 0.3921 - 0.3924 - 0.3922 - 0.3920 - 0.3927 - 0.3917 - 0.3916	accuracy:	0.8281 0.8299 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5318 0.5318 0.5317 0.5318 0.5317 0.5317 0.5317 0.5317 0.5320 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 7ms/step 6ms/step 1ms/step 11ms/step	- loss:	0.3927 - 0.3927 - 0.3925 - 0.3928 - 0.3926 - 0.3924 - 0.3925 - 0.3921 - 0.3924 - 0.3922 - 0.3922 - 0.3920 - 0.3921 - 0.3924 - 0.3922 - 0.3920 - 0.3927 - 0.3917 - 0.3916	accuracy:	0.8281 0.8299 0.8299 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5318 0.5318 0.5317 0.5318 0.5317 0.5317 0.5317 0.5317 0.5320 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 8ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 1ms/step 11ms/step 9ms/step	- loss:	0.3927 - 0.3925 - 0.3928 - 0.3926 - 0.3924 - 0.3925 - 0.3924 - 0.3921 - 0.3922 - 0.3922 - 0.3922 - 0.3920 - 0.3927 - 0.3916 - 0.3917 - 0.3916 - 0.3917 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8289 0.8281 0.8299 0.8281 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299 0.8299	- val_loss:	0.5314 0.5315 0.5316 0.5315 0.5318 0.5315 0.5317 0.5317 0.5317 0.5317 0.5320 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396
18/18 Epoch 18/18	[=====================================] - 0s	7ms/step 7ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 6ms/step 7ms/step 6ms/step 11ms/step 9ms/step 7ms/step	- loss:	0.3927 - 0.3927 - 0.3928 - 0.3928 - 0.3926 - 0.3926 - 0.3926 - 0.3921 - 0.3921 - 0.3922 - 0.3920 - 0.3921 -	accuracy:	0.8281 0.8264 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281 0.8299 0.8281	- val_loss:	0.5314 0.5315 0.5315 0.5315 0.5314 0.5318 0.5317 0.5318 0.5317 0.5316 0.5318 0.5317 0.5322 0.5322 0.5322 0.5322 0.5322 0.5322	- val_accuracy:	0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7344 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396

	961/1500		٥-	7 / - t	1	0	2012		0.0200		0 5334		0.7305
Epoch	[=======] 962/1500												
	[======] 963/1500	- 6	ðs.	7ms/step -	- los	s: 0	.3912 -	accuracy:	0.8299	val_loss:	0.5323 -	val_accuracy:	0.7396
18/18	[]	- 6	ðs.	8ms/step -	- los	s: 0	.3913 -	accuracy:	0.8299	val_loss:	0.5327 -	val_accuracy:	0.7396
	964/1500	- 6	as	9ms/sten -	- los	s: 0	. 3912 -	accuracy:	0.8316	- val loss:	0.5327 -	val accuracy:	0.7396
Epoch	965/1500							-		_			
	[======] 966/1500	- 6	ØS	8ms/step -	- 10s	s: 0	.3914 -	accuracy:	0.8299	· val_loss:	0.5326 -	val_accuracy:	0.7448
18/18	[]	- 6	ðs.	7ms/step -	- los	s: 0	.3911 -	accuracy:	0.8299	val_loss:	0.5328 -	val_accuracy:	0.7448
	967/1500 []	- 6	ðs.	7ms/step -	- los	s: 0	.3910 -	accuracy:	0.8299	- val_loss:	0.5326 -	val_accuracy:	0.7448
	968/1500	,	2-	Cme (etan	100		2007		0.0201	wal lass.	0 5335		0.7440
	[=======] 969/1500	- 6	05	oms/step -	- 105	5: 0	.3907 -	accuracy:	0.0201	- vai_1055:	0.5525 -	vai_accuracy:	0.7446
	[======] 970/1500	- 6	ðs.	8ms/step -	- los	s: 0	.3904 -	accuracy:	0.8299	val_loss:	0.5329 -	val_accuracy:	0.7448
18/18	[]	- 6	ðs.	8ms/step -	- los	s: 0	.3906 -	accuracy:	0.8316	val_loss:	0.5330 -	val_accuracy:	0.7448
	971/1500 []	- 6	as	9ms/sten -	- los	s: 0	. 3903 -	accuracy:	0.8299	- val loss:	0.5332 -	val accuracy:	0.7448
Epoch	972/1500												
	[=======] 973/1500	- 6	ðs.	9ms/step -	- los	s: 0	.3903 -	accuracy:	0.8281 -	· val_loss:	0.5330 -	val_accuracy:	0.7448
18/18	[]	- 6	ðs.	7ms/step -	- los	s: 0	.3902 -	accuracy:	0.8281 -	val_loss:	0.5331 -	val_accuracy:	0.7448
	974/1500	- 6	ðs.	4ms/step -	- los	s: 0	.3903 -	accuracv:	0.8281 -	- val loss:	0.5334 -	val accuracy:	0.7448
Epoch	975/1500												
	[========] 976/1500	- 6	ØS	5ms/step -	- 10s	s: 0	.3904 -	accuracy:	0.8281	· val_loss:	0.5338 -	val_accuracy:	0.7500
18/18	[]	- 6	ðs.	5ms/step -	- los	s: 0	.3899 -	accuracy:	0.8281 -	val_loss:	0.5338 -	val_accuracy:	0.7500
	977/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3899 -	accuracy:	0.8281 -	- val_loss:	0.5339 -	val_accuracy:	0.7500
	978/1500	,	2-	Fmc/cton	100		2000		0 0201	wal lass.	0 5344		0.7500
Epoch	[======] 979/1500												
	[======] 980/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3899 -	accuracy:	0.8281	val_loss:	0.5343 -	val_accuracy:	0.7500
18/18	[]	- 6	ðs.	5ms/step -	- los	s: 0	.3896 -	accuracy:	0.8281	val_loss:	0.5346 -	val_accuracy:	0.7500
Epoch	981/1500 [=======]												
Epoch	982/1500												
	[=======] 983/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3895 -	accuracy:	0.8281	· val_loss:	0.5348 -	val_accuracy:	0.7448
18/18	[]	- 6	ðs.	4ms/step -	- los	s: 0	.3897 -	accuracy:	0.8281 -	val_loss:	0.5347 -	val_accuracy:	0.7500
	984/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3895 -	accuracy:	0.8281 -	- val loss:	0.5349 -	val accuracy:	0.7500
Epoch	985/1500												
	[=======] 986/1500	- 6	05	Sms/step -	- 105	5: 0	.3893 -	accuracy:	0.8281 -	· vai_ioss:	0.5348 -	vai_accuracy:	0.7500
	[======]	- 6	ðs.	4ms/step -	- los	s: 0	.3894 -	accuracy:	0.8281 -	val_loss:	0.5349 -	val_accuracy:	0.7500
	987/1500 [========]	- 6	ðs.	5ms/step -	- los	s: 0	.3895 -	accuracy:	0.8299	val_loss:	0.5349 -	val_accuracy:	0.7500
	988/1500 [=======]	_ 0	a c	5ms/sten -	- 100	c · a	3892 -	accuracy:	a 8299 .	val loss:	0 53/8 -	val accuracy:	0 7500
Epoch	989/1500							-		_			
	[========] 990/1500	- 6	ðs.	6ms/step -	- los	s: 0	.3890 -	accuracy:	0.8281 -	· val_loss:	0.5350 -	val_accuracy:	0.7500
18/18	[]	- 6	ðs.	4ms/step -	- los	s: 0	.3891 -	accuracy:	0.8299	val_loss:	0.5349 -	val_accuracy:	0.7500
	991/1500	- 6	ðs.	4ms/step -	- los	s: 0	.3890 -	accuracv:	0.8299	- val loss:	0.5349 -	val accuracy:	0.7552
Epoch	992/1500												
	[=======] 993/1500	- 6	ðs	4ms/step -	- los	s: 0	.3890 -	accuracy:	0.8299 -	· val_loss:	0.5351 -	val_accuracy:	0.7552
	[=======]	- 6	ðs.	5ms/step -	- los	s: 0	.3889 -	accuracy:	0.8316	val_loss:	0.5352 -	val_accuracy:	0.7552
	994/1500 [========]	- 6	ðs.	5ms/step -	- los	s: 0	.3890 -	accuracy:	0.8316	val_loss:	0.5350 -	val_accuracy:	0.7500
	995/1500	_ 0	ac	Ame/ston .	- 100	c · a	3888 -	accuracy:	a 8299 .	val loss:	0 5352 -	val accuracy:	0 7552
	996/1500												
	[======] 997/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3887 -	accuracy:	0.8299 -	· val_loss:	0.5353 -	val_accuracy:	0.7552
18/18	[]	- 6	ðs.	4ms/step -	- los	s: 0	.3889 -	accuracy:	0.8316	val_loss:	0.5355 -	val_accuracy:	0.7552
	998/1500	- 6	as	5ms/sten -	- los	s: 0	. 3886 -	accuracy:	0.8299	- val loss:	0.5354 -	val accuracy:	0.7552
Epoch	999/1500							-		_			
	[========] 1000/1500	- 6	ðs	5ms/step -	- los	s: 0	.3885 -	accuracy:	0.8299	· val_loss:	0.5354 -	val_accuracy:	0.7552
18/18	[]	- 6	ðs.	4ms/step -	- los	s: 0	.3885 -	accuracy:	0.8316	val_loss:	0.5357 -	val_accuracy:	0.7552
	1001/1500	- 6	ðs.	4ms/step -	- los	s: 0	.3887 -	accuracy:	0.8299	- val loss:	0.5364 -	val accuracy:	0.7552
Epoch	1002/1500												
	[========] 1003/1500	- 6	ØS	4ms/step -	- 10s	s: 0	.3886 -	accuracy:	0.8299	· val_loss:	0.5365 -	val_accuracy:	0.7552
	[======] 1004/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3883 -	accuracy:	0.8316 -	val_loss:	0.5361 -	val_accuracy:	0.7552
18/18	[=======]	- 6	ðs.	5ms/step -	- los	s: 0	.3884 -	accuracy:	0.8299	val_loss:	0.5362 -	val_accuracy:	0.7552
	1005/1500		20	Ams /ston	100	c . a	2002	accupacy:	0 0216	val loss:	0 5260	val accuracy:	0.7552
Epoch	1006/1500												
	[=======] 1007/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3885 -	accuracy:	0.8299 -	· val_loss:	0.5363 -	val_accuracy:	0.7552
18/18	[]	- 6	ðs.	4ms/step -	- los	s: 0	.3881 -	accuracy:	0.8299	val_loss:	0.5363 -	val_accuracy:	0.7552
	1008/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3882 -	accuracy:	0.8316	- val loss:	0.5364 -	val accuracy:	0.7552
Epoch	1009/1500												
	[========] 1010/1500	- 6	ðs	5ms/step -	- los	s: 0	.3880 -	accuracy:	0.8299	· val_loss:	0.5367 -	val_accuracy:	0.7552
18/18	[]	- 6	ðs.	4ms/step -	- los	s: 0	.3881 -	accuracy:	0.8316	val_loss:	0.5367 -	val_accuracy:	0.7552
	1011/1500	- 6	ðs.	6ms/step -	- los	s: 0	.3881 -	accuracy:	0.8299	- val_loss:	0.5368 -	val_accuracy:	0.7552
	1012/1500	,	2-	Fmc/cton	100		2000		0 0222	wal lass.	0 5267		0.7553
	[========] 1013/1500	- 6	05	oms/step -	- 105	5: 0	.3000 -	accuracy:	0.0333	- vai_1055:	0.5567 -	vai_accuracy:	0.7552
	[======] 1014/1500	- 6	ðs.	4ms/step -	- los	s: 0	.3880 -	accuracy:	0.8316	val_loss:	0.5372 -	val_accuracy:	0.7552
18/18	[======]	- 6	ðs.	5ms/step -	- los	s: 0	.3878 -	accuracy:	0.8299	val_loss:	0.5371 -	val_accuracy:	0.7552
	1015/1500	- 6	9<	4ms/stan	- 100	s: a	. 3881	accuracy.	0.8322	· val locc·	0.5368	val accuracy.	0.7552
Epoch	1016/1500												
	[======] 1017/1500	- 6	ðs.	4ms/step -	- los	s: 0	.3880 -	accuracy:	0.8316	val_loss:	0.5369 -	val_accuracy:	0.7552
18/18	[]	- 6	ðs.	5ms/step -	- los	s: 0	.3878 -	accuracy:	0.8316	val_loss:	0.5369 -	val_accuracy:	0.7552
	1018/1500	- 0	ðs.	5ms/sten -	- los	s: A	.3879 -	accuracy.	0.8333	· val loss:	0.5369 -	val accuracy:	0.7500
Epoch	1019/1500												
	[=======] 1020/1500	- 6	dS	5ms/step -	- los	s: 0	.3877 -	accuracy:	v.8316 -	- val_loss:	Ø.5369 -	val_accuracy:	0.7500
18/18	[]	- 6	ðs.	5ms/step -	- los	s: 0	.3877 -	accuracy:	0.8316	val_loss:	0.5372 -	val_accuracy:	0.7552
	1021/1500	- 6	ðs.	5ms/step -	- los	s: 0	.3878 -	accuracy:	0.8316	val_loss:	0.5373 -	val_accuracy:	0.7500
Epoch	1022/1500							-		_			
Epoch	1023/1500												
	[=======]	- 6	ðs.	5ms/step -	- los	s: 0	.3877 -	accuracy:	0.8333	val_loss:	0.5373 -	val_accuracy:	0.7500
	1024/1500 []	- 6	ðs.	4ms/step -	- los	s: 0	.3877 -	accuracy:	0.8316	- val_loss:	0.5374 -	val_accuracy:	0.7500

	1025/1500													
	[======================================] -	- 09	s 4ms/step) -	loss:	0.3873 -	accuracy:	0.8316	val_loss:	0.5375	-	val_accuracy:	0.7500
8/18 [1026/1500 [===================================] -	- 09	s 5ms/step) -	loss:	0.3875 -	accuracy:	0.8316	- val_loss:	0.5376	-	val_accuracy:	0.7500
	1027/1500 [===================================] -	- 09	s 5ms/step) -	loss:	0.3875 -	accuracy:	0.8316	- val_loss:	0.5378	_	val_accuracy:	0.7500
poch 1	1028/1500 [-		_				
poch 1	1029/1500							-		_				
	[=====================================] -	- 09	s 4ms/step) -	loss:	0.3876 -	accuracy:	0.8316	· val_loss:	0.5380	-	val_accuracy:	0.7500
	[=====================================] -	- 09	s 4ms/step) -	loss:	0.3874 -	accuracy:	0.8333	val_loss:	0.5382	-	val_accuracy:	0.7500
8/18 [[======================================] -	- 09	s 5ms/step) -	loss:	0.3873 -	accuracy:	0.8333 -	val_loss:	0.5381	-	val_accuracy:	0.7500
	1032/1500 [] -	- 09	s 5ms/step) -	loss:	0.3874 -	accuracy:	0.8333	- val_loss:	0.5381	-	val_accuracy:	0.7500
	1033/1500 [========	1 -	- 00	s 5ms/ster	١ -	loss.	0 3875 -	accuracy.	a 8333 .	- val loss:	0 5381	_	val accuracy:	0 7500
Epoch 1	1034/1500													
	[=====================================	J -	- 09	s 6ms/step) -	loss:	0.38/4 -	accuracy:	0.8333	· val_loss:	0.5380	-	val_accuracy:	0.7500
	[=====================================] -	- 09	s 5ms/step) -	loss:	0.3873 -	accuracy:	0.8333	· val_loss:	0.5380	-	val_accuracy:	0.7500
18/18 [[======================================] -	- 09	s 4ms/step) -	loss:	0.3874 -	accuracy:	0.8333	val_loss:	0.5379	-	val_accuracy:	0.7500
18/18 [1037/1500 [===================================] -	- 09	s 4ms/step	-	loss:	0.3873 -	accuracy:	0.8333 -	val_loss:	0.5380	-	val_accuracy:	0.7500
	1038/1500 [===================================	1 -	- 09	s 5ms/ster) -	loss:	0.3872 -	accuracy:	0.8316	- val loss:	0.5383	_	val accuracy:	0.7500
poch 1	1039/1500 [-		_				
poch 1	1040/1500													
	[=====================================] -	- 09	s 5ms/step) -	loss:	0.3873 -	accuracy:	0.8333 -	- val_loss:	0.5383	-	val_accuracy:	0.7500
18/18 [[] -	- 09	s 4ms/step) -	loss:	0.3871 -	accuracy:	0.8299	val_loss:	0.5385	-	val_accuracy:	0.7500
18/18 [1042/1500 [===================================] -	- 09	s 5ms/step) -	loss:	0.3870 -	accuracy:	0.8316	val_loss:	0.5389	-	val_accuracy:	0.7500
	1043/1500 [===================================] -	- 09	s 5ms/step) -	loss:	0.3871 -	accuracy:	0.8316	val_loss:	0.5391	-	val_accuracy:	0.7552
poch 1	1044/1500 [===================================													
poch 1	1045/1500							-		_				
poch 1	[=====================================													
	[=====================================] -	- 09	s 4ms/step) -	loss:	0.3868 -	accuracy:	0.8316	val_loss:	0.5388	-	val_accuracy:	0.7500
18/18	[======================================] -	- 09	s 5ms/step) -	loss:	0.3872 -	accuracy:	0.8333	val_loss:	0.5393	-	val_accuracy:	0.7500
18/18	1048/1500 [=============] -	- 09	s 5ms/step) -	loss:	0.3869 -	accuracy:	0.8333	- val_loss:	0.5392	-	val_accuracy:	0.7500
	1049/1500 [========] -	- 09	s 5ms/ster) -	loss:	0.3868 -	accuracy:	0.8316	- val_loss:	0.5392	_	val_accuracy:	0.7500
Epoch 1	1050/1500													
poch 1	[=====================================													
	[=====================================	J -	- 09	s 5ms/step) -	loss:	0.3870 -	accuracy:	0.8316 -	- vai_loss:	0.5394	-	val_accuracy:	0.7500
18/18 [[=====================================] -	- 09	s 5ms/step	-	loss:	0.3870 -	accuracy:	0.8333	val_loss:	0.5392	-	val_accuracy:	0.7500
18/18	[======================================] -	- 09	s 5ms/step) -	loss:	0.3868 -	accuracy:	0.8333	val_loss:	0.5390	-	val_accuracy:	0.7500
8/18 [1054/1500 [===================================] -	- 09	s 5ms/step) -	loss:	0.3869 -	accuracy:	0.8316	val_loss:	0.5394	-	val_accuracy:	0.7500
poch 1	1055/1500 [=========							-		_				
poch 1	1056/1500													
poch 1	[=====================================							-		_				
8/18 [[=====================================] -	- 09	s 6ms/step) -	loss:	0.3866 -	accuracy:	0.8333	val_loss:	0.5394	-	val_accuracy:	0.7500
8/18 [[======================================] -	- 09	s 5ms/step	-	loss:	0.3869 -	accuracy:	0.8333	val_loss:	0.5398	-	val_accuracy:	0.7500
8/18 [1059/1500 [===================================] -	- 09	s 5ms/step) -	loss:	0.3869 -	accuracy:	0.8333	val_loss:	0.5397	-	val_accuracy:	0.7500
	1060/1500 [===================================] -	- 09	s 5ms/ster) -	loss:	0.3867 -	accuracy:	0.8333	- val_loss:	0.5397	_	val_accuracy:	0.7500
poch 1	1061/1500 [===================================							-		_				
Epoch 1	1062/1500													
poch 1	[=====================================							-		_				
	[=====================================] -	- 09	s 4ms/step) -	loss:	0.3865 -	accuracy:	0.8333	val_loss:	0.5395	-	val_accuracy:	0.7500
18/18 [[======================================] -	- 09	s 4ms/step) -	loss:	0.3865 -	accuracy:	0.8333	val_loss:	0.5395	-	val_accuracy:	0.7500
18/18 [1065/1500 [===================================] -	- 09	s 5ms/step) -	loss:	0.3865 -	accuracy:	0.8333	val_loss:	0.5395	-	val_accuracy:	0.7500
poch 1	1066/1500 [========													
Epoch 1	1067/1500													
poch 1	[======================================													
	[=====================================] -	- 09	s 5ms/step) -	loss:	0.3865 -	accuracy:	0.8316	- val_loss:	0.5400	-	val_accuracy:	0.7500
18/18 [[=====================================] -	- 09	s 5ms/step) -	loss:	0.3866 -	accuracy:	0.8351	val_loss:	0.5397	-	val_accuracy:	0.7500
18/18	[==========] -	- 09	s 5ms/step) -	loss:	0.3864 -	accuracy:	0.8333	val_loss:	0.5399	-	val_accuracy:	0.7500
8/18 [1071/1500 [===================================] -	- 09	s 5ms/ster) -	loss:	0.3864 -	accuracy:	0.8333	- val_loss:	0.5400	_	val_accuracy:	0.7448
poch 1	1072/1500 [
poch 1	1073/1500													
poch 1	[=====================================													
8/18 [[=====================================] -	- 09	s 5ms/step) -	loss:	0.3863 -	accuracy:	0.8333	val_loss:	0.5398	-	val_accuracy:	0.7500
8/18 [[======================================] -	- 09	s 4ms/step) -	loss:	0.3862 -	accuracy:	0.8351 -	val_loss:	0.5399	-	val_accuracy:	0.7500
8/18 [1076/1500 [===================================] -	- 09	s 5ms/step) -	loss:	0.3863 -	accuracy:	0.8333	val_loss:	0.5400	-	val_accuracy:	0.7500
	1077/1500 [========	1 -	- 00	s 5ms/ster) -	loss:	0.3863 -	accuracy.	0.8351	· val loss·	0.5401	_	val accuracy:	0.7448
poch 1	1078/1500													
poch 1	[=====================================													
	[=====================================] -	- 09	s 5ms/step) -	loss:	0.3866 -	accuracy:	0.8333	val_loss:	0.5402	-	val_accuracy:	0.7448
8/18 [[=====================================] -	- 09	s 5ms/step	-	loss:	0.3861 -	accuracy:	0.8351	val_loss:	0.5399	-	val_accuracy:	0.7448
8/18 [[======================================] -	- 09	s 6ms/step) -	loss:	0.3861 -	accuracy:	0.8333	val_loss:	0.5398	-	val_accuracy:	0.7448
	1082/1500 [========] -	- 0	s 7ms/ster) -	loss:	0.3862 -	accuracv:	0.8333	- val loss:	0.5402	_	val_accuracv:	0.7448
poch 1	1083/1500													
poch 1	[=====================================													
	[=====================================] -	- 09	s 6ms/step) -	loss:	0.3863 -	accuracy:	0.8333	· val_loss:	0.5405	-	val_accuracy:	0.7500
18/18	[=====================================] -	- 09	s 8ms/step	-	loss:	0.3861 -	accuracy:	0.8351	val_loss:	0.5405	-	val_accuracy:	0.7500
noch 1	1086/1500 [===========] -	- 09	s 7ms/step) -	loss:	0.3863 -	accuracy:	0.8351	val_loss:	0.5405	-	val_accuracy:	0.7500
18/18 [
L8/18 [Epoch 1	1087/1500 [=========] -	- 09	s 7ms/ster	- (loss:	0.3861 -	accuracy:	0.8333 -	<pre>val_loss:</pre>	0.5403	-	val_accuracy:	0.7448

10 10 10 10 10 10 10 10	18/18												
10 10 10 10 10 10 10 10			1 -	as	9ms/sten	- loss	0 3858	- accuracy:	0 8333	- val loss:	0 5403 -	val accuracy:	0 7448
10 10 10 10 10 10 10 10	poch		1 -	03	oms/scep	- 1055.	0.3030	- accuracy.	0.0333	- vai_1055.	0.5405 -	vai_accuracy.	0.7448
18	18/18	[] -	0s	8ms/step	- loss:	0.3861	- accuracy:	0.8333	- val_loss:	0.5401 -	val_accuracy:	0.7448
10 10 10 10 10 10 10 10													
1.] -	0s	7ms/step	- loss:	0.3862	- accuracy:	0.8351	- val_loss:	0.5407 -	val_accuracy:	0.7500
18 18 18 18 18 18 18 18			1	Q.c	Ome/ston	1000	0 2061	2001112011	0 0051	val loce:	0 5400	val accumacy:	0.7500
10			1 -	05	Jiii J J S Lep	- 1022	0.3001	accuracy:	0.0001	A01 ⁷ 1022;	J.J485 -	var_accuracy:	3.7500
10 2015/158] -	0s	7ms/step	- loss:	0.3859	- accuracy:	0.8333	- val_loss:	0.5408 -	val_accuracy:	0.7500
10 10 10 10 10 10 10 10	poch	1094/1500						-		_			
18	18/18	[======] -	0s	8ms/step	- loss:	0.3858	- accuracy:	0.8333	<pre>- val_loss:</pre>	0.5408 -	val_accuracy:	0.7500
10													
12] -	0s	6ms/step	- loss:	0.3857	- accuracy:	0.8333	- val_loss:	0.5408 -	val_accuracy:	0.7500
10 2017/200			1	Q-	6ms / c+	- 1000	0 2057	- 20011000	0 0222	- val less:	0 5410	val accuracy	0 7500
18			1 -	υS	oms/step	- 1022;	0.365/	- accuracy:	v.0333	- vaT_TO22;	0.3410 -	vai_accuracy:	0.7500
10 1947-150 1947-150 1948 1			1 -	0s	7ms/step	- loss:	0.3856	- accuracy:	0.8333	- val loss:	0.5410 -	val accuracy:	0.7500
10 10 10 10 10 10 10 10			-					-		_		_ ′	
13] -	0s	6ms/step	- loss:	0.3858	- accuracy:	0.8368	<pre>- val_loss:</pre>	0.5404 -	val_accuracy:	0.7448
10 10 10 10 10 10 10 10				_									
1.5] -	0s	6ms/step	- loss:	0.3858	- accuracy:	0.8351	- val_loss:	0.5405 -	val_accuracy:	0.7500
10 1107/1588 0.0 8 861/1589 1.00 5 861/1589			1	ac	7mc/cton	1000	A 20E7	accupacy:	0 0222	val loce:	0 5407	val accuracy:	9 7306
18			1 -	05	/IIIS/ Scep	- 1055.	0.3637	- accuracy.	0.0333	- vai_1055.	0.3407 -	vai_accuracy.	0.7390
10 11 12 12 13 13 13 13 13] -	0s	8ms/step	- loss:	0.3855	- accuracy:	0.8351	- val_loss:	0.5410 -	val_accuracy:	0.7448
10 11 12 13 13 14 15 15 15 15 15 15 15								-		_			
18 18 18 18 18 18 18 18] -	0s	5ms/step	- loss:	0.3856	- accuracy:	0.8351	<pre>- val_loss:</pre>	0.5409 -	val_accuracy:	0.7448
10 141/1500				_									
18 1971-198 0] -	0s	⊌ms/step	- loss:	u.3858	- accuracy:	0.8351	- val_loss:	v.5411 -	val_accuracy:	v./448
10 10 10 10 10 10 10 10			1	a-	7mc/c+^-	- 1000	0 3822	- accuracy:	0 8351	- val locc	0 5/12	val accuracy:	0 7448
18			1 -	05	, m3/ step	- 1022	0.3033	accuracy:	0.0001	A01 ⁷ 1022;	0.0410 -	var_accuracy:	0.7770
10] -	0s	7ms/step	- loss:	0.3858	- accuracy:	0.8333	- val_loss:	0.5413 -	val_accuracy:	0.7448
	poch	1106/1500						-		_			
18 18 18 18 18 18 18 18] -	0s	6ms/step	- loss:	0.3856	- accuracy:	0.8351	- val_loss:	0.5412 -	val_accuracy:	0.7500
10 10 10 10 10 10 10 10			1	0-	Eme /st-	1	0 2055	20000	0 0222	val 1	0 5400	val assure	0.7500
18] -	ØS	oms/step	- Ioss:	v.3856	- accuracy:	ø.8333	- val_loss:	v.5409 -	vai_accuracy:	טשכ/.ש
10 10 10 10 10 10 10 10			1 -	٩s	7ms/sten	- 1055	0.3856	- accuracy.	0.8333	- val loss.	0.5412 -	val accuracy:	0.7500
18			, -	J	э, эсер	2033		cui dcy i		1033;		accuracy:	
10 10 10 10 10 10 10 10] -	0s	7ms/step	- loss:	0.3854	- accuracy:	0.8351	- val_loss:	0.5412 -	val_accuracy:	0.7500
10 11 11 13 13 14 15 15 15 15 15 15 15	poch	1110/1500						-		_			
13	18/18	[======================================] -	0s	5ms/step	- loss:	0.3853	- accuracy:	0.8351	- val_loss:	0.5413 -	val_accuracy:	0.7500
			1	_	Ome / - :	3 -	0 20=2		0.00==		0 5440	wal	0.7500
12] -	ØS	∍ms/step	- Ioss:	v.3853	- accuracy:	v.8351	- val_loss:	v.5412 -	vai_accuracy:	טשכ/.ש
col 111/1509			1 -	ρc	8ms/stan	- 1000	0.3855	- accuracy:	0.8351	- val locc.	0.5411	val accuracy:	0.7500
			, -	υS	22/ 2 cch	1033	0.000	accuracy.	0.0001	*********	J.J-11 -	.uaccuracy:	2.7500
	8/18	[] -	0s	8ms/step	- loss:	0.3854	- accuracy:	0.8351	- val_loss:	0.5413 -	val_accuracy:	0.7500
	poch	1114/1500											
] -	0s	8ms/step	- loss:	0.3852	- accuracy:	0.8351	<pre>- val_loss:</pre>	0.5414 -	val_accuracy:	0.7500
			,	٥-	7	1	0 2054		0.0354		0 5444		0.7500
18] -	ØS.	/ms/step	- loss:	0.3851	- accuracy:	0.8351	- val_loss:	0.5414 -	val_accuracy:	0.7500
ch 1117/1598 1			1 -	as	9ms/sten	- loss	0 3851	- accuracy:	0 8351	- val loss:	0 5413 -	val accuracy:	0 7500
18			,	0.5	эшэ, эсср	1055.	0.3031	accar acy.	0.0551	vu1_1055.	0.5-125	var_accaracy.	017300
noth 118/15/369 1.85 / 785/step 1085: 0.1853 accuracy: 0.8331 val_loss: 0.5414 val_accuracy: 0.7500] -	0s	8ms/step	- loss:	0.3851	- accuracy:	0.8351	- val_loss:	0.5414 -	val_accuracy:	0.7500
Deb 119/15369 18 5ms/step 10ss: 0.3850 accuracy: 0.8351 val_loss: 0.5416 val_accuracy: 0.7500	poch	1118/1500											
] -	0s	7ms/step	- loss:	0.3853	- accuracy:	0.8333	- val_loss:	0.5414 -	val_accuracy:	0.7500
ch 1120/1508 ch 1210/1508 ch 12			1	α-	Smc/c+a-	_ 1000	0 2050	- 20011000	0 0051	- val less:	0 5410	val accuracy	0 7500
] -	υS	step/ step	- 10SS:	w.3850	- accuracy:	1628.ט	- A9T_TO22:	v.5416 -	vai_accuracy:	טטכ./.ט
ch 112/1589			1 -	٩s	7ms/sten	- 1055	0.3850	- accuracy.	0.8368	- val loss.	0.5416 -	val accuracy:	0.7448
				23	-, эсер	_033				1033.			-
ch 112/1596] -	0s	11ms/ster	o - loss	: 0.3852	- accuracy	: 0.8351	- val_loss	0.5415	- val_accuracy	0.7448
ch 112/15/15/26 13 [====================================	poch	1122/1500											
138] -	0s	8ms/step	- loss:	0.3849	- accuracy:	0.8351	- val_loss:	0.5418 -	val_accuracy:	0.7500
ch 1124/1509 13 [====================================			1	Q-	10mc/c+	n - 1ac-	. 0 2040	- 20000000	. 0 0254	- val las-	0 5/10	- val accome	· a 7500
18			1 -	υS	TOIII2/STE	, - 1022	0.5849	- accuracy	. 0.0351	- AQT_1022	. 0.5419	- vai_accuracy	. 0./300
ch 112/15/1509			1 -	05	6ms/sten	- loss	0.3852	- accuracy:	0.8351	- val loss:	0.5416 -	val accuracy:	0.7500
18			•		, . сер								
18	8/18	[] -	0s	6ms/step	- loss:	0.3850	- accuracy:	0.8368	- val_loss:	0.5415 -	val_accuracy:	0.7448
ch 112/15/1509 1/18 [====================================						_							
18] -	0s	6ms/step	- loss:	0.3851	- accuracy:	0.8333	- val_loss:	0.5416 -	val_accuracy:	v.7448
ch 1124/1509	puch		1 -	ρc	5mc/cton	- 1000	0.3850	- accuracy:	0.8316	- val locc.	0.5421	val accuracy:	0.7500
18			1 -	05	عدر دسد	- 1022	0.2020	accuracy:	0.0010	A01 ⁷ 1022;	J.J42I -	*ar_accal.ack;	3.7500
ch 112/1/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3847 - accuracy: 0.8368 - val_loss: 0.5424 - val_accuracy: 0.7500 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3848 - accuracy: 0.8351 - val_loss: 0.5424 - val_accuracy: 0.7500 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3848 - accuracy: 0.8351 - val_loss: 0.5424 - val_accuracy: 0.7448 ch 1133/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3849 - accuracy: 0.8351 - val_loss: 0.5420 - val_accuracy: 0.7448 ch 1133/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3849 - accuracy: 0.8351 - val_loss: 0.5420 - val_accuracy: 0.7448 ch 1133/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3849 - accuracy: 0.8351 - val_loss: 0.5420 - val_accuracy: 0.7448 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3849 - accuracy: 0.8351 - val_loss: 0.5427 - val_accuracy: 0.7448 ch 1135/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3859 - accuracy: 0.8368 - val_loss: 0.5427 - val_accuracy: 0.7448 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3849 - accuracy: 0.8351 - val_loss: 0.5424 - val_accuracy: 0.7448 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3847 - accuracy: 0.8351 - val_loss: 0.5424 - val_accuracy: 0.7448 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3844 - accuracy: 0.8351 - val_loss: 0.5424 - val_accuracy: 0.7396 ch 1139/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3848 - accuracy: 0.8351 - val_loss: 0.5420 - val_accuracy: 0.7396 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3846 - accuracy: 0.8351 - val_loss: 0.5420 - val_accuracy: 0.7396 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3846 - accuracy: 0.8351 - val_loss: 0.5420 - val_accuracy: 0.7396 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3846 - accuracy: 0.8351 - val_loss: 0.5420 - val_accuracy: 0.7396 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3846 - accuracy: 0.8351 - val_loss: 0.5431 - val_accuracy: 0.7396 ch 1134/1509 /**IS Seminorm 0.95 Sms/step - loss: 0.3846 - accuracy: 0.8	8/18	1128/1500			Fmc/cton	1	0 2040	- accuracy:					
nch 1130/1509	8/18 poch] -	0s	oms/step	- 1055:	0.3649	- accuracy.	0.8333	val_loss:	0.5424 -	val_accuracy:	0.7500
18	8/18 poch 8/18 poch	[=====================================	-					-		_		_ ′	
ch 1131/1500 118	8/18 poch 8/18 poch 8/18	[1129/1500 [-					-		_		_ ′	
/18 [====================================	8/18 poch 8/18 poch 8/18 poch	[=====================================] -	0s	5ms/step	- loss:	0.3847	- accuracy:	0.8368	- val_loss:	0.5424 -	val_accuracy:	0.7500
18	8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================] -	0s	5ms/step	- loss:	0.3847	- accuracy:	0.8368	- val_loss:	0.5424 -	val_accuracy:	0.7500
/18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================] -] -	0s 0s	5ms/step 5ms/step	- loss:	0.3847	- accuracy:	0.8368 0.8351	- val_loss:	0.5424 - 0.5422 -	val_accuracy:	0.7500 0.7500
133/1509	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -	0s 0s	5ms/step 5ms/step	- loss:	0.3847	- accuracy:	0.8368 0.8351	- val_loss:	0.5424 - 0.5422 -	val_accuracy:	0.7500 0.7500
18	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step	- loss: - loss: - loss:	0.3848	- accuracy: - accuracy: - accuracy:	0.8368 0.8351 0.8351	- val_loss: - val_loss: - val_loss:	0.5424 - 0.5422 - 0.5421 -	val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448
/18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step	- loss: - loss: - loss:	0.3847 0.3848 0.3848 0.3849	- accuracy: - accuracy: - accuracy: - accuracy:	0.8368 0.8351 0.8351 0.8351	- val_loss: - val_loss: - val_loss: - val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7500 0.7500 0.7448 0.7448
nch 1135/1509 //18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step	- loss: - loss: - loss:	0.3847 0.3848 0.3848 0.3849	- accuracy: - accuracy: - accuracy: - accuracy:	0.8368 0.8351 0.8351 0.8351	- val_loss: - val_loss: - val_loss: - val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7500 0.7500 0.7448 0.7448
//8 [===================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -] -	0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss: - loss: - loss: - loss:	0.3847 0.3848 0.3848 0.3849 0.3849	- accuracy: - accuracy: - accuracy: - accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448
och 1136/1500 //18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -] -	0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss: - loss: - loss: - loss:	0.3847 0.3848 0.3848 0.3849 0.3849	- accuracy: - accuracy: - accuracy: - accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448
och 1137/1500 //8 [===================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -] -	0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss: - loss: - loss: - loss: - loss:	0.3847 0.3848 0.3848 0.3849 0.3849	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5424 - 0.5421 - 0.5420 - 0.5424 - 0.5427 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448
/18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -] -	0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss: - loss: - loss: - loss: - loss: - loss:	0.3848 0.3848 0.3849 0.3849 0.3849 0.3848	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448
och 1138/1500 /18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -] -	0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss: - loss: - loss: - loss: - loss: - loss:	0.3848 0.3848 0.3849 0.3849 0.3849 0.3848	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448
/18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3848 0.3848 0.3849 0.3849 0.3848 0.3848 0.3850	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448
och 1139/1500 //18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3848 0.3848 0.3849 0.3849 0.3848 0.3848 0.3850	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448
/18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step	- loss:	0.3848 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448
//8 [===================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step	- loss:	0.3848 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448
och 1141/1500 //8 [===================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3848 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850 0.3849	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5422 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448
/18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850 0.3849	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8351 0.8351 0.8333	- val_loss:	0.5424 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5425 - 0.5426 - 0.5426 - 0.5426 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7448
och 1142/1500 //18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850 0.3849	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8351 0.8351 0.8333	- val_loss:	0.5424 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5425 - 0.5426 - 0.5426 - 0.5426 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7448
/18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -	9s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850 0.3849 0.3844	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8351 0.8353 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5423 - 0.5424 - 0.5422 - 0.5430 - 0.5429 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448
och 1143/1500 //18 [==============] - 0s 5ms/step - loss: 0.3845 - accuracy: 0.8299 - val_loss: 0.5431 - val_accuracy: 0.7396 och 1144/1500 //18 [=============] - 0s 5ms/step - loss: 0.3845 - accuracy: 0.8351 - val_loss: 0.5429 - val_accuracy: 0.7396 och 1145/1500 //18 [==============] - 0s 5ms/step - loss: 0.3846 - accuracy: 0.8351 - val_loss: 0.5431 - val_accuracy: 0.7396 och 1146/1500 //18 [===============] - 0s 5ms/step - loss: 0.3845 - accuracy: 0.8368 - val_loss: 0.5431 - val_accuracy: 0.7396 och 1147/1500 //18 [==================] - 0s 5ms/step - loss: 0.3844 - accuracy: 0.8351 - val_loss: 0.5436 - val_accuracy: 0.7448 och 1148/1500 //18 [====================] - 0s 5ms/step - loss: 0.3845 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1149/1500 //18 [========================] - 0s 5ms/step - loss: 0.3843 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1159/1500 //18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -	9s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850 0.3849 0.3844	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5423 - 0.5424 - 0.5422 - 0.5430 - 0.5429 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448
/18 [====================================	8/18 ooch	[) -) -) -) -) -) -) -	9s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850 0.3849 0.3844 0.3844	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8353 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5426 - 0.5426 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448
/18 [====================================	8/18 poch 8/18 p	[) -) -) -) -) -) -) -	9s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3847 0.3850 0.3849 0.3844 0.3844	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5426 - 0.5426 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448
och 1145/1500 //8 [===================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 8/18 poch 8/18 8/18 poch 8/18 8/18 poch 8/18 8/18 poch 8/18 8/18 poch 8/18 8/18 poch 8/18 8/18 8/18 8/18 8/18 8/18 8/18 8/1	[] -] -] -] -] -] -] -	9s	Sms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3847 0.3850 0.3847 0.3844 0.3844	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8351 0.8351 0.8351 0.8333 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5424 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5422 - 0.5426 - 0.5427 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7448 0.7396
/18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 8/18 poch 8	[] -] -] -] -] -] -] -	9s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3847 0.3850 0.3847 0.3844 0.3844 0.3846 0.3846	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8333 0.8351 0.8368	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5425 - 0.5425 - 0.5422 - 0.5430 - 0.5422 - 0.5426 - 0.5427 - 0.5421 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396
och 1146/1500 //18 [===============] - 0s 5ms/step - loss: 0.3845 - accuracy: 0.8368 - val_loss: 0.5431 - val_accuracy: 0.7396 och 1147/1500 //18 [==============] - 0s 5ms/step - loss: 0.3844 - accuracy: 0.8351 - val_loss: 0.5436 - val_accuracy: 0.7448 och 1148/1500 //18 [==============] - 0s 5ms/step - loss: 0.3845 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1149/1500 //18 [===============] - 0s 5ms/step - loss: 0.3843 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1150/1500 //18 [===================] - 0s 5ms/step - loss: 0.3842 - accuracy: 0.8351 - val_loss: 0.5435 - val_accuracy: 0.7396 och 1151/1500 //18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -] -] -	9s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3847 0.3850 0.3847 0.3844 0.3844 0.3846 0.3846	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8333 0.8351 0.8368	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5425 - 0.5425 - 0.5422 - 0.5430 - 0.5422 - 0.5426 - 0.5427 - 0.5421 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396
/18 [====================================	8/18 poch 8/18 poch 8/18 poch 8/18 p	[) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	9s	Sms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3847 0.3844 0.3844 0.3844 0.3846 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8333 0.8351 0.8333 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5426 - 0.5427 - 0.5427 - 0.5428 - 0.5429 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396
och 1147/1500 //18 [============] - 05 5ms/step - loss: 0.3844 - accuracy: 0.8351 - val_loss: 0.5436 - val_accuracy: 0.7448 och 1148/1500 //18 [==========] - 05 5ms/step - loss: 0.3845 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1145/1500 //18 [=========] - 05 5ms/step - loss: 0.3843 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1150/1500 //18 [==========] - 05 5ms/step - loss: 0.3842 - accuracy: 0.8351 - val_loss: 0.5435 - val_accuracy: 0.7396 och 1151/1500 //18 [====================================	8/18 poch 8/18 p	[) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	9s	Sms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3847 0.3844 0.3844 0.3844 0.3846 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8333 0.8351 0.8333 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5426 - 0.5427 - 0.5427 - 0.5428 - 0.5429 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 - 0.5420 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396
/18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -] -] -	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3847 0.3844 0.3844 0.3844 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5426 - 0.5427 - 0.5429 - 0.5421 - 0.5421 - 0.5421 - 0.5421 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
och 1148/1500 //18 [=============] - 05 5ms/step - loss: 0.3845 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1149/1500 //18 [=============] - 05 5ms/step - loss: 0.3843 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1150/1500 //18 [===============] - 05 5ms/step - loss: 0.3842 - accuracy: 0.8351 - val_loss: 0.5435 - val_accuracy: 0.7396 och 1151/1500 //18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -] -] -	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3847 0.3844 0.3844 0.3844 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5426 - 0.5427 - 0.5429 - 0.5421 - 0.5421 - 0.5421 - 0.5421 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
och 1149/1500 /18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -] -] -	9s 9	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3847 0.3850 0.3847 0.3844 0.3846 0.3846 0.3846 0.3846	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8353 0.8351 0.8368 0.8351 0.8368	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5422 - 0.5422 - 0.5423 - 0.5429 - 0.5421 - 0.5421 - 0.5421 - 0.5421 - 0.5431 - 0.5431 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
/18 [================] - 0s 5ms/step - loss: 0.3843 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7448 och 1150/1500 /18 [===============] - 0s 5ms/step - loss: 0.3842 - accuracy: 0.8351 - val_loss: 0.5435 - val_accuracy: 0.7396 och 1151/1500 /18 [==============] - 0s 4ms/step - loss: 0.3847 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7396 och 1152/1500	8/18 poch	[] -] -] -] -] -] -] -] -	9s 9	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3847 0.3850 0.3847 0.3844 0.3846 0.3846 0.3846 0.3845 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8351 0.8368 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5422 - 0.5427 - 0.5425 - 0.5425 - 0.5422 - 0.5426 - 0.5429 - 0.5426 - 0.5427 - 0.5431 - 0.5431 - 0.5436 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
och 1150/1500 //18 [================] - 0s 5ms/step - loss: 0.3842 - accuracy: 0.8351 - val_loss: 0.5435 - val_accuracy: 0.7396 och 1151/1500 //18 [=================] - 0s 4ms/step - loss: 0.3847 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7396 och 1152/1500	18/18 18/18 190ch 18/18 18/18 18/18 18/18 18/18 190ch 18/18 190ch 18/18 190ch 18/18 18/18 18/18 190ch 18/18	[] -] -] -] -] -] -] -] -	9s 9	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3847 0.3850 0.3847 0.3844 0.3846 0.3846 0.3846 0.3845 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8351 0.8368 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5422 - 0.5427 - 0.5425 - 0.5425 - 0.5422 - 0.5426 - 0.5429 - 0.5426 - 0.5427 - 0.5431 - 0.5431 - 0.5436 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
/18 [=====================] - 0s 5ms/step - loss: 0.3842 - accuracy: 0.8351 - val_loss: 0.5435 - val_accuracy: 0.7396 och 1151/1500 /18 [================] - 0s 4ms/step - loss: 0.3847 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7396 och 1152/1500	8/18 poch	[] -] -] -] -] -] -] -] -	9s 9	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3850 0.3850 0.3847 0.3854 0.3846 0.3846 0.3846 0.3846 0.3845 0.3845 0.3846	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8351 0.8368 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5422 - 0.5426 - 0.5426 - 0.5427 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 -	val_accuracy:	0.7590 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7448
och i151/1500 /18 [====================] - 0s 4ms/step - loss: 0.3847 - accuracy: 0.8333 - val_loss: 0.5437 - val_accuracy: 0.7396 och 1152/1500	8/18 poch s/18 p	[] -] -] -] -] -] -] -] -	9s 9	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3850 0.3850 0.3847 0.3854 0.3846 0.3846 0.3846 0.3846 0.3845 0.3845 0.3846	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8351 0.8368 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5427 - 0.5425 - 0.5424 - 0.5422 - 0.5426 - 0.5426 - 0.5427 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 -	val_accuracy:	0.7590 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7448
/18 [====================================	18/18 (18/18 (19/18) ([] -] -] -] -] -] -] -] -] -	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3847 0.3844 0.3844 0.3845 0.3845 0.3845 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8368 0.8333 0.8299 0.8351 0.8351 0.8351 0.8351 0.8353	- val_loss:	0.5424 - 0.5422 - 0.5421 - 0.5420 - 0.5427 - 0.5425 - 0.5425 - 0.5422 - 0.5426 - 0.5427 - 0.5429 - 0.5421 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 - 0.5431 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7448
	8/18 poch 8/18 p	[] -] -] -] -] -] -] -] -] -] -	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3844 0.3844 0.3846 0.3845 0.3845 0.3845 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5422 - 0.5423 - 0.5429 - 0.5421 - 0.5421 - 0.5427 - 0.5431 - 0.5435 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
/18 [====================================	8/18 poch 8/18 p	[] -] -] -] -] -] -] -] -] -] -	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3844 0.3844 0.3846 0.3845 0.3845 0.3845 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5422 - 0.5423 - 0.5429 - 0.5421 - 0.5421 - 0.5427 - 0.5431 - 0.5435 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
	8/18 8/18	[] -] -] -] -] -] -] -] -] -] -	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3844 0.3844 0.3846 0.3845 0.3845 0.3845 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5424 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5422 - 0.5423 - 0.5429 - 0.5421 - 0.5421 - 0.5427 - 0.5431 - 0.5435 -	val_accuracy:	0.7500 0.7500 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396 0.7396
	8/18 poch 8/18 p	[]	9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s 9 s	Sms/step	- loss:	0.3847 0.3848 0.3849 0.3849 0.3849 0.3850 0.3849 0.3844 0.3846 0.3845 0.3845 0.3845 0.3845 0.3845 0.3845	- accuracy:	0.8368 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8351 0.8333 0.8351	- val_loss:	0.5424 - 0.5422 - 0.5427 - 0.5427 - 0.5427 - 0.5425 - 0.5422 - 0.5422 - 0.5422 - 0.5423 - 0.5429 - 0.5429 - 0.5431 - 0.5431 - 0.5431 - 0.5435 - 0.5437 - 0.5437 - 0.5437 - 0.5437 -	val_accuracy:	0.7500 0.7500 0.7548 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7448 0.7396

	1153/1500 [=======]	_	۵s	5ms/sten	- loss:	0 3842 -	accuracy:	0 8351 -	· val loss:	0 5438	- val accuracy:	a 7396
Epoch	1154/1500						-		_			
Epoch	[========] 1155/1500											
	[=========] 1156/1500	-	0s	5ms/step	- loss:	0.3841 -	accuracy:	0.8351 -	· val_loss:	0.5442	- val_accuracy:	0.7396
	[========] 1157/1500	-	0s	5ms/step	- loss:	0.3843 -	accuracy:	0.8351 -	val_loss:	0.5443	- val_accuracy:	0.7396
	[=========] 1158/1500	-	0s	5ms/step	- loss:	0.3840 -	accuracy:	0.8368 -	val_loss:	0.5439	- val_accuracy:	0.7344
18/18	[]	-	0s	6ms/step	- loss:	0.3843 -	accuracy:	0.8333 -	val_loss:	0.5441	- val_accuracy:	0.7344
18/18	1159/1500 [=======]	-	0s	5ms/step	- loss:	0.3839 -	accuracy:	0.8351 -	val_loss:	0.5443	- val_accuracy:	0.7344
18/18	1160/1500 []	-	0s	5ms/step	- loss:	0.3845 -	accuracy:	0.8351 -	val_loss:	0.5441	- val_accuracy:	0.7344
	1161/1500 []	_	0s	4ms/step	- loss:	0.3841 -	accuracy:	0.8351 -	- val loss:	0.5442	- val accuracy:	0.7344
Epoch	1162/1500 []						-		_			
Epoch	1163/1500 [========]											
Epoch	1164/1500											
Epoch	[========] 1165/1500											
	[=========] 1166/1500	-	0s	5ms/step	- loss:	0.3840 -	accuracy:	0.8368 -	· val_loss:	0.5444	- val_accuracy:	0.7344
	[=========] 1167/1500	-	0s	5ms/step	- loss:	0.3838 -	accuracy:	0.8351 -	· val_loss:	0.5443	- val_accuracy:	0.7344
18/18	[=======] 1168/1500	-	0s	5ms/step	- loss:	0.3840 -	accuracy:	0.8333 -	val_loss:	0.5446	- val_accuracy:	0.7344
18/18	[]	-	0s	5ms/step	- loss:	0.3836 -	accuracy:	0.8351 -	val_loss:	0.5445	- val_accuracy:	0.7344
18/18	1169/1500 []	-	0s	6ms/step	- loss:	0.3836 -	accuracy:	0.8351 -	val_loss:	0.5450	- val_accuracy:	0.7396
18/18	1170/1500 []	-	0s	5ms/step	- loss:	0.3838 -	accuracy:	0.8351 -	- val_loss:	0.5450	- val_accuracy:	0.7396
	1171/1500 []	_	0s	5ms/step	- loss:	0.3836 -	accuracy:	0.8368 -	· val_loss:	0.5451	- val_accuracy:	0.7396
	1172/1500 []	_	0s	6ms/step	- loss:	0.3835 -	accuracy:	0.8368 -	- val loss:	0.5453	- val accuracv:	0.7396
Epoch	1173/1500 [=======]											
Epoch	[] 1174/1500 []						-		_			
Epoch	1175/1500						-		_			
Epoch	[=========] 1176/1500						-		_			
	[=======] 1177/1500	-	0s	5ms/step	- loss:	0.3835 -	accuracy:	0.8368 -	· val_loss:	0.5456	- val_accuracy:	0.7396
18/18	[========] 1178/1500	-	0s	4ms/step	- loss:	0.3837 -	accuracy:	0.8403 -	val_loss:	0.5454	- val_accuracy:	0.7396
18/18	[=======] 1179/1500	-	0s	5ms/step	- loss:	0.3837 -	accuracy:	0.8368 -	val_loss:	0.5454	- val_accuracy:	0.7344
18/18	[]	-	0s	5ms/step	- loss:	0.3835 -	accuracy:	0.8385 -	val_loss:	0.5455	- val_accuracy:	0.7396
18/18	1180/1500 [=======]	-	0s	5ms/step	- loss:	0.3833 -	accuracy:	0.8403 -	- val_loss:	0.5451	- val_accuracy:	0.7292
	1181/1500 [========]	-	0s	5ms/step	- loss:	0.3835 -	accuracy:	0.8368 -	val_loss:	0.5452	- val_accuracy:	0.7292
	1182/1500 []	_	0s	5ms/step	- loss:	0.3836 -	accuracy:	0.8385 -	- val_loss:	0.5455	- val_accuracy:	0.7292
	1183/1500 []	_	0s	5ms/step	- loss:	0.3835 -	accuracy:	0.8351 -	- val loss:	0.5462	- val accuracy:	0.7344
Epoch	1184/1500 [======]						-		_			
Epoch	1185/1500						,		_		_ ′	
Epoch	[=======] 1186/1500											
Epoch	[========] 1187/1500											
	[=========] 1188/1500	-	0s	4ms/step	- loss:	0.3832 -	accuracy:	0.8351 -	· val_loss:	0.5462	- val_accuracy:	0.7396
	[========] 1189/1500	-	0s	5ms/step	- loss:	0.3831 -	accuracy:	0.8403 -	· val_loss:	0.5458	- val_accuracy:	0.7344
18/18	[=========] 1190/1500	-	0s	5ms/step	- loss:	0.3832 -	accuracy:	0.8368 -	val_loss:	0.5459	- val_accuracy:	0.7344
18/18	[=======] 1191/1500	-	0s	5ms/step	- loss:	0.3833 -	accuracy:	0.8351 -	val_loss:	0.5464	- val_accuracy:	0.7344
18/18	[]	-	0s	6ms/step	- loss:	0.3833 -	accuracy:	0.8368 -	val_loss:	0.5464	- val_accuracy:	0.7396
18/18	1192/1500 [=======]	-	0s	5ms/step	- loss:	0.3835 -	accuracy:	0.8368 -	val_loss:	0.5461	- val_accuracy:	0.7344
18/18	1193/1500 []	-	0s	6ms/step	- loss:	0.3832 -	accuracy:	0.8351 -	- val_loss:	0.5465	- val_accuracy:	0.7344
	1194/1500 []	_	0s	5ms/step	- loss:	0.3831 -	accuracy:	0.8368 -	- val_loss:	0.5471	- val_accuracy:	0.7344
	1195/1500 []	_	0s	5ms/step	- loss:	0.3832 -	accuracy:	0.8368 -	- val loss:	0.5470	- val accuracy:	0.7344
Epoch	1196/1500 []											
Epoch	1197/1500 [=======]											
Epoch	1198/1500											
Epoch	[========] 1199/1500						-		_			
	[==========] 1200/1500	-	0s	5ms/step	- loss:	0.3833 -	accuracy:	0.8351 -	· val_loss:	0.5468	- val_accuracy:	0.7344
	[=======] 1201/1500	-	0s	5ms/step	- loss:	0.3831 -	accuracy:	0.8385 -	· val_loss:	0.5470	- val_accuracy:	0.7344
	[=======] 1202/1500	-	0s	5ms/step	- loss:	0.3830 -	accuracy:	0.8403 -	val_loss:	0.5467	- val_accuracy:	0.7292
18/18	[=======] 1203/1500	-	0s	6ms/step	- loss:	0.3830 -	accuracy:	0.8351 -	val_loss:	0.5470	- val_accuracy:	0.7292
18/18	[]	-	0s	6ms/step	- loss:	0.3827 -	accuracy:	0.8368 -	val_loss:	0.5469	- val_accuracy:	0.7292
18/18	1204/1500 [=======]	-	0s	5ms/step	- loss:	0.3826 -	accuracy:	0.8368 -	- val_loss:	0.5471	- val_accuracy:	0.7292
18/18	1205/1500 [========]	-	0s	5ms/step	- loss:	0.3827 -	accuracy:	0.8385 -	val_loss:	0.5469	- val_accuracy:	0.7292
18/18	1206/1500 []	_	0s	4ms/step	- loss:	0.3827 -	accuracy:	0.8368 -	val_loss:	0.5469	- val_accuracy:	0.7292
Epoch	1207/1500 [=======]						-		_			
Epoch	[] 1208/1500 []						-		_			
Epoch	1209/1500						-		_			
Epoch	[======] 1210/1500						-		_			
Epoch	[========] 1211/1500											
18/18	[========] 1212/1500	-	0s	5ms/step	- loss:	0.3825 -	accuracy:	0.8351 -	val_loss:	0.5475	- val_accuracy:	0.7292
18/18	[=======] 1213/1500	-	0s	5ms/step	- loss:	0.3824 -	accuracy:	0.8368 -	val_loss:	0.5477	- val_accuracy:	0.7292
18/18	[========] 1214/1500	-	0s	6ms/step	- loss:	0.3827 -	accuracy:	0.8351 -	val_loss:	0.5477	- val_accuracy:	0.7292
18/18	[]	-	0s	5ms/step	- loss:	0.3825 -	accuracy:	0.8351 -	val_loss:	0.5480	- val_accuracy:	0.7292
18/18	1215/1500 []	-	0s	4ms/step	- loss:	0.3825 -	accuracy:	0.8385 -	val_loss:	0.5481	- val_accuracy:	0.7292
	1216/1500 [========]	-	0s	5ms/step	- loss:	0.3823 -	accuracy:	0.8368 -	val_loss:	0.5483	- val_accuracy:	0.7292
	-										,	

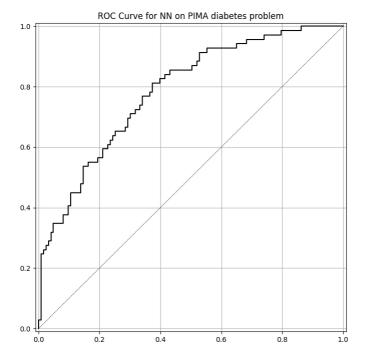
8/18 poch 8/18 poch												
poch 8/18 poch	1217/1500	1 -	ac	5mc/cton	- 1000	0 3833 -	accuracy.	0 8368	- val loss:	0 5/170	- val accuracy:	A 7292
8/18 poch	1218/1500] -	05	Sms/step	- 1055:	0.3823 -	accuracy:	0.8368	- vai_ioss:	0.5479	- vai_accuracy:	0.7292
	[] -	0s	5ms/step	- loss:	0.3824 -	accuracy:	0.8385	- val_loss:	0.5481	- val_accuracy:	0.7292
8/18	1219/1500	-					,		_		_ ′	
	[] -	0s	5ms/step	- loss:	0.3823 -	accuracy:	0.8385	<pre>- val_loss:</pre>	0.5481	val_accuracy:	0.7292
	1220/1500	,	0-	F /	1	0. 2022		0.0360		0 5470		0.7202
	[=====================================] -	US	∍ms/step	- loss:	v.3823 -	accuracy:	0.8368	- val_loss:	υ.5478	- vai_accuracy:	v./292
	[======================================	1 -	05	6ms/sten	- loss	0.3822 -	accuracy.	0.8385	- val loss:	0.5478	- val accuracy:	0.7292
	1222/1500	,		а, стор								****
	[] -	0s	5ms/step	- loss:	0.3822 -	accuracy:	0.8351	- val_loss:	0.5482	- val_accuracy:	0.7292
	1223/1500											
	[] -	0s	5ms/step	- loss:	0.3823 -	accuracy:	0.8368	<pre>- val_loss:</pre>	0.5482	val_accuracy:	0.7292
	1224/1500	,	٥-	F (-+		0. 2022		0.0360		0 5403		0.7202
	[=====================================] -	0s	5ms/step	- loss:	0.3822 -	accuracy:	0.8368	- val_loss:	0.5483	 val_accuracy: 	0.7292
	[======================================	1 -	as	5ms/sten	- loss:	0 3821 -	accuracy.	0 8368	- val loss:	0 5484	- val accuracy:	Ø 7292
	1226/1500	1 -	03	эшэ/ эсер	- 1033.	0.3021	accuracy.	0.0500	vai_1033.	0.5404	- var_accuracy.	0.7232
	[] -	0s	5ms/step	- loss:	0.3819 -	accuracy:	0.8385	- val_loss:	0.5484	- val_accuracy:	0.7240
	1227/1500	-					,		_			
	[] -	0s	6ms/step	- loss:	0.3822 -	accuracy:	0.8368	<pre>- val_loss:</pre>	0.5485	val_accuracy:	0.7240
	1228/1500	_			_						_	
	1220 (4500] -	0s	9ms/step	- loss:	0.3821 -	accuracy:	0.8368	- val_loss:	0.5488	val_accuracy:	0.7240
	1229/1500	1 -	ac	7mc/cton	- 1000	a 3810 -	accuracy.	0 8368	- val loss:	0 5/88	- val accuracy:	0 7240
	1230/1500	1 -	03	/ш3/ эсер	- 1033.	0.5015	accuracy.	0.0500	vai_1033.	0.5400	- var_accuracy.	0.7240
	[1 -	0s	9ms/step	- loss:	0.3816 -	accuracy:	0.8385	- val loss:	0.5487	- val accuracy:	0.7240
poch	1231/1500						-		_			
	[] -	0s	7ms/step	- loss:	0.3819 -	accuracy:	0.8351	<pre>- val_loss:</pre>	0.5489	val_accuracy:	0.7240
	1232/1500	1	^	Cma !-:	3	0 3010		0.0355		0 540-	ual	0.7100
	1233/1500] -	0s	ъms/step	- loss:	Ø.3819 -	accuracy:	v.8368	- val_loss:	u.5487	vai_accuracy:	v./188
	1233/1500	1 -	. ac	8ms/ster	- 1000	0.381º	accuracy.	0.8368	- val locco	0.5490	- val accuracy:	0.7240
	1234/1500	, -	US	22/ 2 cch	1033;	2.3010 -	accui acy:	0.0000	*********	J.J-03	.uaccuracy:	
8/18	[] -	0s	9ms/step	- loss:	0.3816 -	accuracy:	0.8368	- val_loss:	0.5488	- val_accuracy:	0.7240
poch	1235/1500											
	[] -	0s	7ms/step	- loss:	0.3817 -	accuracy:	0.8385	- val_loss:	0.5490	val_accuracy:	0.7240
	1236/1500	1	ο-	7mc/ct-	100-	0 2017	200	0 0200	val 1	0 5404	val see	0.7240
	[=====================================] -	US	/ms/step	- loss:	v.3817 -	accuracy:	0.8368	- val_loss:	v.5491	- vai_accuracy:	0./240
	[======================================	1 -	0<	6ms/sten	- loss:	0.3816 -	accuracy.	0.8368	- val loss.	0.5495	- val accuracy:	0.7240
	1238/1500			, эсер	2033.		u. acy.				accaracy.	
8/18	[] -	0s	8ms/step	- loss:	0.3814 -	accuracy:	0.8368	- val_loss:	0.5496	- val_accuracy:	0.7240
poch	1239/1500						-		_			
	[] -	0s	6ms/step	- loss:	0.3817 -	accuracy:	0.8368	- val_loss:	0.5496	val_accuracy:	0.7240
	1240/1500	1	^	Fme /-:	3	0 301-		0.0355		0 540-	ual	0.7240
	[======================================	1 -	US	s, step رsmc	- TO22:	ღ.3815 -	accuracy:	v.8368	- A9T_TO22:	v.5496	- vai_accuracy:	0.7240
8/18	[======================================	1 -	05	8ms/sten	- loss	0.3814 -	accuracy.	0.8385	- val loss:	0.5496	- val accuracy:	0.7240
	1242/1500			., . сер								-
8/18	[] -	0s	7ms/step	- loss:	0.3814 -	accuracy:	0.8368	- val_loss:	0.5500	- val_accuracy:	0.7240
poch	1243/1500											
	[] -	0s	9ms/step	- loss:	0.3815 -	accuracy:	0.8403	<pre>- val_loss:</pre>	0.5500	val_accuracy:	0.7240
	1244/1500	,	٥-	7 (-+		0. 2012		0 0354		0 5504		0.7340
	[======================================] -	05	/ms/step	- 1055:	0.3812 -	accuracy:	0.8351	- val_loss:	0.5501	- vai_accuracy:	0.7240
	[1 -	0s	7ms/step	- loss:	0.3813 -	accuracy:	0.8385	- val loss:	0.5503	- val accuracy:	0.7240
	1246/1500			., . сер								-
8/18	[] -	0s	6ms/step	- loss:	0.3812 -	accuracy:	0.8368	- val_loss:	0.5503	val_accuracy:	0.7240
	1247/1500				_							
	1249/1500] -	0s	/ms/step	- loss:	0.3812 -	accuracy:	0.8368	- val_loss:	0.5504	val_accuracy:	Ø.7240
	1248/1500	1	0.0	7mc/cton	1	0 2012		0 0200	wal lacer	0 5504		0.7240
	1249/1500] -	05	/ms/step	- 1055:	0.3813 -	accuracy:	0.8368	- val_loss:	0.5504	- vai_accuracy:	0.7240
	[======================================	1 -	05	9ms/sten	- loss	0.3808 -	accuracy.	0.8385	- val loss:	0.5504	- val accuracy:	0.7240
	1250/1500			., . сер								-
	[=========] -	0s	10ms/step	- loss	: 0.3810	- accuracy	: 0.8368	- val_loss	: 0.5505	- val_accuracy	: 0.7240
	1251/1500				_							
	1252/1500] -	0s	⊌ms/step	- loss:	0.3812 -	accuracy:	0.8385	- val_loss:	0.5504	val_accuracy:	0.7240
	1252/1500	1	Ω-	7mc/c+~~	- 1000	Q 2010	accupan	0 0205	- val less:	0 5505	- val accuracy	0 7240
	1253/1500	1 -	U S	,ms/step	- TO22:	0.3010 -	accuracy:	0.0385	- va1_1022;	0.5505	- vai_accuracy:	0.7240
	[==========] -	0s	9ms/sten	- loss:	0.3813 -	accuracv:	0.8368	- val loss:	0.5508	- val_accuracv:	0.7240
	1254/1500	-	-	,			,.					
8/18	[] -	0s	6ms/step	- loss:	0.3811 -	accuracy:	0.8368	- val_loss:	0.5511	val_accuracy:	0.7240
poch	1255/1500						-		_			
	1255 (1500] -	0s	7ms/step	- loss:	0.3811 -	accuracy:	0.8385	- val_loss:	0.5513	val_accuracy:	0.7240
	1256/1500 [1	Ω-	10mc/c+c-	100-	. a seec	- 2001177	. a 0200	- val las-	. 0 ==10	- val accoma	. 0 7240
	1257/1500] -	US	±o≡s/step	, - 10SS	. ๒.ᲥᲒᲪᲒ	- accuracy	. ს.ბპ68	- var_loss	. ن.5512	- vai_accuracy	. 0.7240
	[===========] -	0s	9ms/sten	- loss:	0.3808 -	accuracv:	0.8385	- val loss:	0.5508	- val_accuracv:	0.7240
poch	1258/1500						-		_			
8/18	[] -	0s	7ms/step	- loss:	0.3807 -	accuracy:	0.8368	- val_loss:	0.5511	val_accuracy:	0.7240
	1259/1500	,		7		0 225-		0.00				0.7040
	1360/1500] -	0s	/ms/step	- loss:	0.3807 -	accuracy:	Ø.8368	- val_loss:	ø.5511	- val_accuracy:	U./24U
	1260/1500	1	ar	10mc/c+c=	1000	· 0 3000	- accurac	· 0 020F	- val loca	. 0 5500	- val accuraci	. 0 7240
2/10	1261/1500	1 -	05	_om5/516p	- 1022	. 0.3008	accuracy	. 0.0305	. var_1055	. ט.טסט	var_accuracy	. 0.7240
	[========] -	0s	7ms/step	- loss:	0.3807 -	accuracy:	0.8351	- val_loss:	0 5509		0.7240
poch	1262/1500	-									- var_accuracv:	
poch 8/18 poch				Ome/cton							_ ′	
poch 8/18 poch 8/18	[] -	0s	oms/scep	- loss:	0.3804 -	accuracy:	0.8385	- val_loss:		_ ′	
poch 8/18 poch 8/18 poch	[=====================================						-		_	0.5509	- val_accuracy:	0.7240
poch 8/18 poch 8/18 poch 8/18	[=====================================						-		_	0.5509	- val_accuracy:	0.7240
poch 8/18 poch 8/18 poch 8/18 poch	[=====================================] -	0s	6ms/step	- loss:	0.3806 -	accuracy:	0.8368	- val_loss:	0.5509 0.5509	- val_accuracy:	0.7240 0.7240
poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch	[=====================================] -	0s 0s	6ms/step 5ms/step	- loss: - loss:	0.3806 - 0.3804 -	accuracy:	0.8368 0.8385	- val_loss: - val_loss:	0.5509 0.5509 0.5511	- val_accuracy: - val_accuracy: - val_accuracy:	0.7240 0.7240 0.7240
poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[] -	0s 0s	6ms/step 5ms/step	- loss: - loss:	0.3806 - 0.3804 -	accuracy:	0.8368 0.8385	- val_loss: - val_loss:	0.5509 0.5509 0.5511	- val_accuracy: - val_accuracy: - val_accuracy:	0.7240 0.7240 0.7240
poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch	[] -	0s 0s 0s	6ms/step 5ms/step 5ms/step	- loss: - loss: - loss:	0.3806 - 0.3804 - 0.3804 -	accuracy: accuracy:	0.8368 0.8385 0.8385	- val_loss: - val_loss: - val_loss:	0.5509 0.5509 0.5511 0.5510	- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:	0.7240 0.7240 0.7240 0.7240
poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================] -	0s 0s 0s	6ms/step 5ms/step 5ms/step	- loss: - loss: - loss:	0.3806 - 0.3804 - 0.3804 -	accuracy: accuracy:	0.8368 0.8385 0.8385	- val_loss: - val_loss: - val_loss:	0.5509 0.5509 0.5511 0.5510	- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:	0.7240 0.7240 0.7240 0.7240
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poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 5ms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3806 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8368 0.8385 0.8385 0.8351 0.8351 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5522 0.5524	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188
poch 8/18 poch	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3806 - 0.3802 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8368 0.8385 0.8385 0.8351 0.8351 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5522 0.5522 0.5524	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188
poch 8/18	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3806 - 0.3802 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8368 0.8385 0.8385 0.8351 0.8351 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5522 0.5522 0.5524	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188
poch 8/18 poch	[=====================================] -] -] -] -] -	0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 7ms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3806 - 0.3803 - 0.3806 - 0.3803 -	accuracy:	0.8368 0.8385 0.8351 0.8351 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5519 0.5522 0.5524 0.5524 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188
poch 8/18	[=====================================] -] -] -] -] -	0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 7ms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3806 - 0.3803 - 0.3806 - 0.3803 -	accuracy:	0.8368 0.8385 0.8351 0.8351 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5519 0.5522 0.5524 0.5524 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188
poch 8/18 poch	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5511 0.5510 0.5510 0.5515 0.5519 0.5522 0.5524 0.5524 0.5521 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188
poch 8/18	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5511 0.5510 0.5510 0.5515 0.5519 0.5522 0.5524 0.5524 0.5521 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188
poch 8.718	[=====================================] -] -] -] -] -	9s 9s 9s 9s 9s 9s 9s 9s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3806 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5510 0.5510 0.5515 0.5519 0.5522 0.5524 0.5524 0.5523 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188
poch 8/18 poch	[=====================================] -] -] -] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	Gms/step Sms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3801 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5524 0.5524 0.5524 0.5523 0.5523 0.5524	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188
poch 8/18	[=====================================] -] -] -] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	Gms/step Sms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3803 - 0.3801 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5524 0.5524 0.5524 0.5523 0.5523 0.5524	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188
poch 8/18 poch	[=====================================] -] -] -] -] -] -] -] -] -	0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 6ms/step	- loss: - loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3806 - 0.3802 - 0.3803 - 0.3801 - 0.3801 - 0.3802 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5524 0.5524 0.5521 0.5523 0.5523 0.5524 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7240 0.7240
poch 8/18	[=====================================] -] -] -] -] -] -] -] -] -	0s	6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 6ms/step 6ms/step	- loss: - loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3806 - 0.3802 - 0.3803 - 0.3801 - 0.3801 - 0.3802 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5515 0.5524 0.5524 0.5523 0.5523 0.5523 0.5524 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7240 0.7240
poch 8/18 8/18 poch 8/18 p	[=====================================] -] -] -] -] -] -] -] -] -] -	9s 9s 9s 9s 9s 9s 9s 9s 9s	Sms/step Gms/step Gms/step Gms/step Gms/step Gms/step Gms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3806 - 0.3802 - 0.3803 - 0.3802 - 0.3803 - 0.3802 - 0.3801 - 0.3801 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5519 0.5522 0.5524 0.5523 0.5523 0.5523 0.5523 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7240 0.7240 0.7240
poch 8/18 8/18 poch 8/18	[=====================================] -] -] -] -] -] -] -] -] -] -	9s 9s 9s 9s 9s 9s 9s 9s 9s	Sms/step Gms/step Gms/step Gms/step Gms/step Gms/step Gms/step	- loss:	0.3806 - 0.3804 - 0.3804 - 0.3804 - 0.3804 - 0.3803 - 0.3806 - 0.3802 - 0.3803 - 0.3802 - 0.3803 - 0.3802 - 0.3801 - 0.3801 -	accuracy:	0.8368 0.8385 0.8385 0.8351 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368 0.8368	- val_loss:	0.5509 0.5509 0.5511 0.5510 0.5515 0.5515 0.5519 0.5522 0.5524 0.5523 0.5523 0.5523 0.5523 0.5523	- val_accuracy:	0.7240 0.7240 0.7240 0.7240 0.7240 0.7240 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7188 0.7240 0.7240 0.7240

	1281/1500													
	[======================================] -	0 9	5ms/step	-	loss:	0.3799	accuracy:	0.8351	- val_loss:	0.5533	-	val_accuracy:	0.7188
8/18 [L282/1500 [===================================] -	0 9	5ms/step	-	loss:	0.3800	accuracy:	0.8385	- val_loss:	0.5528	-	val_accuracy:	0.7240
	1283/1500] -	- 05	5ms/step	_	loss:	0.3800	accuracy:	0.8351	- val_loss:	0.5530	_	val_accuracy:	0.7188
poch 1	284/1500							-		_				
poch 1	1285/1500							-		_				
	[=====================================] -	- 09	6ms/step	-	loss:	0.3798	accuracy:	0.8385	- val_loss:	0.5528	-	val_accuracy:	0.7240
	287/1500] -	0 9	5ms/step	-	loss:	0.3797	accuracy:	0.8403	- val_loss:	0.5528	-	val_accuracy:	0.7240
18/18 [=======================================] -	0 9	5ms/step	-	loss:	0.3800	accuracy:	0.8351	- val_loss:	0.5530	-	val_accuracy:	0.7188
	1288/1500] -	- 09	5ms/step	_	loss:	0.3797	accuracy:	0.8368	- val_loss:	0.5532	_	val_accuracy:	0.7188
	289/1500	1 -	. 00	: 5ms/sten	_	loss	a 3797 .	accuracy:	0 8368	- val loss:	0 5535	_	val accuracy:	0 7188
Epoch 1	1290/1500													
	291/1500	J -	- 05	5ms/step	-	loss:	0.3/9/	- accuracy:	0.8403	- val_loss:	0.5534	-	val_accuracy:	0.7188
	[============= 292/1500] -	- 09	5ms/step	-	loss:	0.3799	accuracy:	0.8385	- val_loss:	0.5534	-	val_accuracy:	0.7188
18/18 [=======================================] -	0 9	5ms/step	-	loss:	0.3796	accuracy:	0.8368	- val_loss:	0.5535	-	val_accuracy:	0.7188
18/18 [293/1500] -	- 0s	6ms/step	-	loss:	0.3796	accuracy:	0.8403	- val_loss:	0.5533	-	val_accuracy:	0.7240
	1294/1500 	1 -	- 09	5ms/step	_	loss:	0.3797	accuracy:	0.8351	- val loss:	0.5535	_	val accuracy:	0.7188
poch 1	295/1500							-		_				
poch 1	1296/1500							-		_				
	297/1500] -	- 09	6ms/step	-	loss:	0.3795	accuracy:	0.8333	- val_loss:	0.5538	-	val_accuracy:	0.7188
18/18 [======================================] -	- 09	5ms/step	-	loss:	0.3793	accuracy:	0.8368	- val_loss:	0.5539	-	val_accuracy:	0.7188
18/18 [[============] -	- 09	6ms/step	-	loss:	0.3794	accuracy:	0.8333	- val_loss:	0.5541	-	val_accuracy:	0.7188
	299/1500 ===================================] -	- 09	5ms/step	-	loss:	0.3795	accuracy:	0.8368	- val_loss:	0.5542	-	val_accuracy:	0.7188
poch 1	300/1500													
poch 1	1301/1500							,		_			_ ′	
poch 1	 1302/1500							,		_			_ ′	
	 303/1500] -	- 09	5ms/step	-	loss:	0.3793	accuracy:	0.8368	- val_loss:	0.5542	-	val_accuracy:	0.7188
18/18 [[============] -	- 09	5ms/step	-	loss:	0.3793	accuracy:	0.8368	- val_loss:	0.5543	-	val_accuracy:	0.7188
18/18 [L304/1500] -	- 09	5ms/step	-	loss:	0.3792	accuracy:	0.8351	- val_loss:	0.5543	-	val_accuracy:	0.7188
Epoch 1	.305/1500 [===================================													
Epoch 1	1306/1500													
Epoch 1	 307/1500													
	[=========== 308/1500	J -	- 09	5ms/step	-	loss:	0.3792	accuracy:	0.8385	- val_loss:	0.5544	-	val_accuracy:	0.7188
18/18 [:========:: :309/1500] -	- 09	5ms/step	-	loss:	0.3794	accuracy:	0.8385	- val_loss:	0.5542	-	val_accuracy:	0.7240
18/18	[============] -	- 09	5ms/step	-	loss:	0.3793	accuracy:	0.8368	- val_loss:	0.5543	-	val_accuracy:	0.7240
18/18 [310/1500 ===================================] -	- 09	5ms/step	-	loss:	0.3790	accuracy:	0.8351	- val_loss:	0.5545	-	val_accuracy:	0.7188
poch 1	311/1500							-		_				
poch 1	1312/1500													
poch 1														
	[=====================================] -	- 09	5ms/step	-	loss:	0.3792	accuracy:	0.8333	- val_loss:	0.5550	-	val_accuracy:	0.7188
8/18 [:=======: :315/1500] -	- 09	5ms/step	-	loss:	0.3790	accuracy:	0.8368	- val_loss:	0.5553	-	val_accuracy:	0.7188
8/18 [[============] -	- 09	5ms/step	-	loss:	0.3790	accuracy:	0.8368	- val_loss:	0.5554	-	val_accuracy:	0.7188
	316/1500] -	- 09	6ms/step	-	loss:	0.3790	accuracy:	0.8351	- val_loss:	0.5553	-	val_accuracy:	0.7188
Epoch 1	317/1500							-		_				
Epoch 1	1318/1500							-		_				
Epoch 1	319/1500							-		_				
	 320/1500] -	- 09	5ms/step	-	loss:	0.3790	accuracy:	0.8351	- val_loss:	0.5555	-	val_accuracy:	0.7188
18/18 [=======================================] -	09	5ms/step	-	loss:	0.3789	accuracy:	0.8368	- val_loss:	0.5555	-	val_accuracy:	0.7188
18/18 [.321/1500 [===================================] -	- 09	5ms/step	-	loss:	0.3787	accuracy:	0.8351	- val_loss:	0.5557	-	val_accuracy:	0.7188
	.322/1500 :] -	- 0.9	5ms/sten	_	loss:	0.3789	- accuracv:	0.8368	- val loss:	0.5558	_	val_accuracv:	0.7188
Epoch 1	1323/1500													
Epoch 1								-		_				
	[=====================================] -	- 05	5ms/step	-	loss:	0.3786	accuracy:	0.8351	- val_loss:	0.5557	-	val_accuracy:	0.7188
18/18 [:======::: :326/1500] -	09	5ms/step	-	loss:	0.3789	accuracy:	0.8385	- val_loss:	0.5556	-	val_accuracy:	0.7188
18/18 [=======================================] -	0 9	5ms/step	-	loss:	0.3790	accuracy:	0.8333	- val_loss:	0.5559	-	val_accuracy:	0.7188
18/18 [.327/1500] -	- 05	5ms/step	_	loss:	0.3789	accuracy:	0.8351	- val_loss:	0.5560	_	val_accuracy:	0.7188
	328/1500	1 -	. ar	6ms/s+an	_	1000	0.3787	accuracy.	0,8351	- val locc	0.5563	_	val accuracy:	0,7188
Epoch 1	1329/1500													
poch 1	330/1500													
8/18 [331/1500] -	- 09	5ms/step	-	loss:	0.3786	accuracy:	0.8368	- val_loss:	0.5565	-	val_accuracy:	0.7188
18/18	[============] -	- 09	5ms/step	-	loss:	0.3785	accuracy:	0.8351	- val_loss:	0.5569	-	val_accuracy:	0.7188
8/18 [1332/1500] -	- 09	5ms/step	-	loss:	0.3787	accuracy:	0.8368	- val_loss:	0.5567	-	val_accuracy:	0.7188
	333/1500	1 -	. 0<	5ms/sten	_	loss:	0.3785	accuracy.	0.8385	- val loss:	0.5567	_	val accuracy:	0.7188
poch 1	1334/1500													
poch 1	 1335/1500							-		_				
	[=====================================] -	- 09	5ms/step	-	loss:	0.3784	accuracy:	0.8368	- val_loss:	0.5572	-	val_accuracy:	0.7188
8/18 [:=====================================] -	- 09	5ms/step	-	loss:	0.3784	accuracy:	0.8351	- val_loss:	0.5573	-	val_accuracy:	0.7188
8/18 [[======================================] -	- 09	6ms/step	-	loss:	0.3784	accuracy:	0.8368	- val_loss:	0.5571	-	val_accuracy:	0.7188
	.338/1500 [===================================] -	- 0.5	5ms/sten	_	loss:	0.3784	accuracv:	0.8351	- val loss:	0.5574	_	val_accuracv:	0.7188
poch 1	1339/1500													
Epoch 1														
	[=====================================] -	- 09	5ms/step	-	loss:	0.3784	accuracy:	0.8351	- val_loss:	0.5573	-	val_accuracy:	0.7188
18/18 [:=====================================] -	- 09	5ms/step	-	loss:	0.3786	accuracy:	0.8351	- val_loss:	0.5574	-	val_accuracy:	0.7188
] -	- 09	5ms/step	-	loss:	0.3781	accuracy:	0.8351	- val_loss:	0.5575	-	val_accuracy:	0.7188
18/18 [0.40 /4 800													
L8/18 Epoch 1	343/1500] -	0.9	5ms/sten	-	loss:	0.3783	accuracv:	0.8385	- val loss:	0.5576	-	val_accuracv:	0.7188

```
Epoch 1345/1500
                                           0s 4ms/step - loss: 0.3783 - accuracy: 0.8333 - val_loss: 0.5582 - val_accuracy: 0.7188
18/18 [===
Epoch 1346/1500
18/18
                                              5ms/step - loss: 0.3781 - accuracy: 0.8368 - val loss: 0.5581 - val accuracy: 0.7188
Epoch
18/18
      1347/1500
                                              5ms/step - loss: 0.3784 - accuracy: 0.8351 - val_loss: 0.5583 - val_accuracy: 0.7188
      1348/1500
                                           0s 6ms/step - loss: 0.3782 - accuracy: 0.8351 - val_loss: 0.5584 - val_accuracy: 0.7188
18/18 [
Epoch 1349/1500
18/18 F
                                           0s 5ms/step - loss: 0.3779 - accuracy: 0.8333 - val loss: 0.5586 - val accuracy: 0.7188
      1350/1500
Epoch
18/18
                                                         loss: 0.3780 - accuracy: 0.8351 - val loss: 0.5587 - val accuracy: 0.7188
Epoch 1352/1500
18/18
                                              5ms/step - loss: 0.3778 - accuracy: 0.8351 - val loss: 0.5590 - val accuracy: 0.7188
      1353/1500
Epoch
18/18
                                                                         accuracy: 0.8368 -
      1354/1500
                                              5ms/step - loss: 0.3777 - accuracy: 0.8368 - val_loss: 0.5590 - val_accuracy: 0.7188
18/18 [=
Epoch 1355/1500
18/18
                                              5ms/step - loss: 0.3778 - accuracy: 0.8385 - val loss: 0.5588 - val accuracy: 0.7188
      1356/1500
      1357/1500
Epoch 135
18/18 [==
                                              5ms/step - loss: 0.3779 - accuracy: 0.8351 - val loss: 0.5589 - val accuracy: 0.7188
Epoch 1358/1500
18/18 [======
                                              6ms/step - loss: 0.3781 - accuracy: 0.8368 - val loss: 0.5589 - val accuracy: 0.7188
Epoch
18/18
      1359/1500
                                                                         accuracy: 0.8368 - val_loss: 0.5589 -
Epoch 1360/1500
18/18
                                           0s 5ms/step - loss: 0.3777 - accuracy: 0.8351 - val loss: 0.5594 - val accuracy: 0.7188
Epoch 1361/1500
18/18
                                              5ms/step - loss: 0.3776 - accuracy: 0.8351 - val loss: 0.5600 - val accuracy: 0.7188
      1362/1500
      1363/1500
Epoch 136
18/18 [==
                                              4ms/step - loss: 0.3778 - accuracy: 0.8351 - val_loss: 0.5597 - val_accuracy: 0.7188
Epoch 1364/1500
18/18 [======
                                              6ms/step - loss: 0.3777 - accuracy: 0.8351 - val_loss: 0.5595 - val_accuracy: 0.7188
      1365/1500
                                                                0.3776 - accuracy: 0.8333 -
                                                                                             val_loss: 0.5597 -
Epoch 1366/1500
18/18 F==
                                              6ms/step - loss: 0.3778 - accuracy: 0.8333 - val loss: 0.5599 - val accuracy: 0.7188
Epoch 1367/1500
18/18
                                              7ms/step - loss: 0.3776 - accuracy: 0.8368 - val loss: 0.5598 - val accuracy: 0.7188
      1368/1500
                                              6ms/step - loss: 0.3774 - accuracy: 0.8351 - val loss: 0.5599 - val accuracy: 0.7188
      1369/1500
Epoch
18/18 [==
                                              7ms/step - loss: 0.3774 - accuracy: 0.8351 - val loss: 0.5601 - val accuracy: 0.7188
Epoch 1370/1500
18/18
                                                       - loss: 0.3775 - accuracy: 0.8351 - val_loss: 0.5601 - val_accuracy: 0.7188
      1371/1500
                                                        - loss: 0.3775 - accuracy: 0.8351 - val_loss: 0.5600 - val_accuracy: 0.7188
Epoch 1372/1500
18/18 [
                                              7ms/step - loss: 0.3775 - accuracy: 0.8351 - val loss: 0.5603 - val accuracy: 0.7188
Enoch 1373/1500
18/18
                                              7ms/step - loss: 0.3773 - accuracy: 0.8351 - val loss: 0.5604 - val accuracy: 0.7188
      1374/1500
      1375/1500
Epoch
18/18
                                              5ms/step - loss: 0.3772 - accuracy: 0.8368 - val loss: 0.5606 - val accuracy: 0.7188
Epoch 1376/1500
                                                         loss: 0.3773 -
                                                                         accuracy: 0.8351 - val loss: 0.5607 - val accuracy: 0.7188
      1377/1500
Epoch
18/18
                                                        - loss: 0.3774 - accuracy: 0.8351 - val loss: 0.5605 - val accuracy: 0.7188
Epoch 1378/1500
18/18
                                              8ms/step - loss: 0.3773 - accuracy: 0.8351 - val loss: 0.5607 - val accuracy: 0.7188
Epoch
      1379/1500
18/18
                                              9ms/step - loss: 0.3773 - accuracy: 0.8351 - val_loss: 0.5606 - val_accuracy: 0.7188
      1380/1500
Epoch
18/18
                                              8ms/step - loss: 0.3773 - accuracy: 0.8351 - val_loss: 0.5604 - val_accuracy: 0.7188
18/18 [======
Epoch 1381/1500
18/18 [==
                                              7ms/step - loss: 0.3773 - accuracy: 0.8351 - val loss: 0.5608 - val accuracy: 0.7188
Epoch
18/18
      1382/1500
                                                        - loss: 0.3772 -
                                                                         accuracy: 0.8351 - val_loss: 0.5612 - val_accuracy: 0.7188
       ւ
1383/1500
Epoch
18/18
                                                        - loss: 0.3772 - accuracy: 0.8351 - val_loss: 0.5613 - val_accuracy: 0.7188
Epoch 1384/1500
18/18
                                           0s 8ms/step - loss: 0.3771 - accuracy: 0.8351 - val loss: 0.5614 - val accuracy: 0.7188
      1385/1500
18/18
                                                         loss: 0.3770 -
      1386/1500
Epoch
18/18
                                                         loss: 0.3769 - accuracy: 0.8368 - val loss: 0.5616 - val accuracy: 0.7240
      1387/1500
Epoch
18/18 F==
                                              7ms/step - loss: 0.3769 - accuracy: 0.8351 - val loss: 0.5622 - val accuracy: 0.7188
      1388/1500
Epoch
18/18
      1389/1500
                                              7ms/step - loss: 0.3767 - accuracy: 0.8351 - val_loss: 0.5619 - val_accuracy: 0.7240
18/18 [==:
Epoch 1390/1500
18/18
                                           0s 10ms/step - loss: 0.3768 - accuracy: 0.8351 - val loss: 0.5620 - val accuracy: 0.7240
      1391/1500
18/18
                                              5ms/step - loss: 0.3767 - accuracy: 0.8351 - val_loss: 0.5623 - val_accuracy: 0.7240
      1392/1500
Epoch
18/18
                                              7ms/step - loss: 0.3768 - accuracy: 0.8351 - val loss: 0.5625 - val accuracy: 0.7240
18/18 [======
Epoch 1393/1500
18/18
                                              7ms/sten - loss: 0.3765 - accuracy: 0.8351 - val loss: 0.5623 - val accuracy: 0.7240
      1394/1500
Epoch
18/18
                                                                                              val_loss: 0.5618 - val_accuracy: 0.7246
      1395/1500
Epoch
18/18
                                              31ms/step - loss: 0.3767 - accuracy: 0.8333 - val_loss: 0.5626 - val_accuracy: 0.7240
Epoch 1396/1500
18/18
                                              16ms/step - loss: 0.3764 - accuracy: 0.8351 - val loss: 0.5628 - val accuracy: 0.7240
      1397/1500
      1398/1500
Epoch 139
18/18 [==
                                              9ms/step - loss: 0.3765 - accuracy: 0.8385 - val_loss: 0.5630 - val_accuracy: 0.7240
Epoch 1399/1500
18/18
                                              27ms/step - loss: 0.3762 - accuracy: 0.8351 - val_loss: 0.5636 - val_accuracy: 0.7188
      1400/1500
                                                                0.3764 -
                                                                          accuracy: 0.8403 -
                                                                                              val_loss: 0.5634 - val_accuracy: 0.7246
      1401/1500
Epoch
                                           Os 6ms/step - loss: 0.3765 - accuracy: 0.8368 - val loss: 0.5634 - val accuracy: 0.7240
18/18 [=
Epoch 1402/1500
18/18
                                              6ms/step - loss: 0.3762 - accuracy: 0.8385 - val loss: 0.5634 - val accuracy: 0.7240
      1403/1500
Epoch
18/18
Epoch 1404/1500
18/18 [======
Epoch 1405/1500
                                              5ms/step - loss: 0.3763 - accuracy: 0.8385 - val loss: 0.5637 - val accuracy: 0.7240
.
18/18 Γ=:
                                              7ms/step - loss: 0.3763 - accuracy: 0.8333 - val loss: 0.5640 - val accuracy: 0.7240
      1406/1500
                                              32ms/step - loss: 0.3764 - accuracy: 0.8333 - val_loss: 0.5647 - val_accuracy: 0.7246
      1407/1500
                                          Os 11ms/step - loss: 0.3762 - accuracy: 0.8368 - val_loss: 0.5646 - val_accuracy: 0.7240
18/18 [==
Epoch 1408/1500
18/18 [======
                            =======] - 0s 5ms/step - loss: 0.3760 - accuracy: 0.8403 - val_loss: 0.5641 - val_accuracy: 0.7240
```

	1409/1500											
Epoch	[========] 1410/1500						-		_			
	[=====================================] -	0s	5ms/step -	loss:	0.3760 -	accuracy:	0.8351 -	val_loss:	0.5644	· val_accuracy:	0.7240
18/18	[========] 1412/1500] -	0s	5ms/step -	loss:	0.3762 -	accuracy:	0.8333 -	val_loss:	0.5644	val_accuracy:	0.7240
18/18	[]] -	0s	4ms/step -	loss:	0.3764 -	accuracy:	0.8368 -	val_loss:	0.5642 -	val_accuracy:	0.7240
18/18	1413/1500 [=======]] -	0s	5ms/step -	loss:	0.3760 -	accuracy:	0.8368 -	val_loss:	0.5649	val_accuracy:	0.7240
	1414/1500 [========]	1 -	0s	5ms/step -	loss:	0.3759 -	accuracy:	0.8333 -	val loss:	0.5651 -	· val accuracy:	0.7240
Epoch	1415/1500 [======]						-		_			
Epoch	1416/1500						-		_			
	[=====================================] -	0s	5ms/step -	loss:	0.3759 -	accuracy:	0.8351 -	val_loss:	0.5655 -	· val_accuracy:	0.7240
18/18	[========] 1418/1500] -	0s	5ms/step -	loss:	0.3758 -	accuracy:	0.8420 -	val_loss:	0.5651 -	· val_accuracy:	0.7240
18/18	[]] -	0s	6ms/step -	loss:	0.3756 -	accuracy:	0.8385 -	val_loss:	0.5651 -	val_accuracy:	0.7240
	1419/1500 [=======]] -	0s	5ms/step -	loss:	0.3759 -	accuracy:	0.8368 -	val_loss:	0.5655	val_accuracy:	0.7240
	1420/1500 []] -	0s	5ms/step -	loss:	0.3758 -	accuracy:	0.8351 -	val_loss:	0.5659	· val_accuracy:	0.7240
Epoch	1421/1500 [=======]											
Epoch	1422/1500											
Epoch	[=====================================						-		_			
	[=====================================	-	0s	6ms/step -	loss:	0.3758 -	accuracy:	0.8385 -	val_loss:	0.5657	· val_accuracy:	0.7240
18/18	[=====================================] -	0s	5ms/step -	loss:	0.3758 -	accuracy:	0.8368 -	val_loss:	0.5661 -	· val_accuracy:	0.7240
18/18	[]] -	0s	5ms/step -	loss:	0.3756 -	accuracy:	0.8385 -	val_loss:	0.5659 -	val_accuracy:	0.7240
	1426/1500 [======]] -	0s	6ms/step -	loss:	0.3757 -	accuracy:	0.8368 -	val_loss:	0.5663 -	val_accuracy:	0.7240
	1427/1500 []	1 -	0s	5ms/step -	loss:	0.3756 -	accuracy:	0.8385 -	val loss:	0.5667 -	· val accuracy:	0.7240
Epoch	1428/1500 [=======]											
Epoch	1429/1500						-		_			
Epoch	[=======] 1430/1500											
	[=====================================] -	0s	5ms/step -	loss:	0.3755 -	accuracy:	0.8368 -	val_loss:	0.5671 -	· val_accuracy:	0.7240
	[========] 1432/1500] -	0s	6ms/step -	loss:	0.3754 -	accuracy:	0.8403 -	val_loss:	0.5676 -	val_accuracy:	0.7240
18/18	[]] -	0s	5ms/step -	loss:	0.3754 -	accuracy:	0.8403 -	val_loss:	0.5678 -	val_accuracy:	0.7240
18/18	1433/1500 [=======]] -	0s	5ms/step -	loss:	0.3753 -	accuracy:	0.8385 -	val_loss:	0.5680	val_accuracy:	0.7292
	1434/1500 []] -	0s	6ms/step -	loss:	0.3756 -	accuracy:	0.8403 -	val_loss:	0.5676	· val_accuracy:	0.7240
Epoch	1435/1500 [=======]											
Epoch	1436/1500											
Epoch	[=======] 1437/1500											
	[=====================================	-	0s	5ms/step -	loss:	0.3753 -	accuracy:	0.8385 -	val_loss:	0.5675	· val_accuracy:	0.7240
	[=======] 1439/1500] -	0s	5ms/step -	loss:	0.3753 -	accuracy:	0.8403 -	val_loss:	0.5681 -	val_accuracy:	0.7240
18/18	[=======] 1440/1500] -	0s	5ms/step -	loss:	0.3750 -	accuracy:	0.8403 -	val_loss:	0.5679 -	val_accuracy:	0.7240
18/18	[]] -	0s	5ms/step -	loss:	0.3751 -	accuracy:	0.8385 -	val_loss:	0.5679	val_accuracy:	0.7240
	1441/1500 [=========]] -	0s	5ms/step -	loss:	0.3751 -	accuracy:	0.8368 -	val_loss:	0.5682 -	val_accuracy:	0.7240
	1442/1500	1 -	0s	5ms/step -	· loss:	0.3750 -	accuracy:	0.8438 -	val loss:	0.5678 -	· val accuracv:	0.7240
Epoch	1443/1500 [======]											
Epoch	1444/1500						-		_			
Epoch	[=======] 1445/1500											
	[=====================================] -	0s	5ms/step -	loss:	0.3750 -	accuracy:	0.8403 -	val_loss:	0.5691 -	· val_accuracy:	0.7240
	[========] 1447/1500] -	0s	6ms/step -	loss:	0.3753 -	accuracy:	0.8438 -	val_loss:	0.5687 -	val_accuracy:	0.7240
18/18	[=======] 1448/1500] -	0s	5ms/step -	loss:	0.3750 -	accuracy:	0.8420 -	val_loss:	0.5687 -	val_accuracy:	0.7240
18/18	[]] -	0s	5ms/step -	loss:	0.3749 -	accuracy:	0.8420 -	val_loss:	0.5689	val_accuracy:	0.7240
18/18	1449/1500 [========]] -	0s	6ms/step -	loss:	0.3749 -	accuracy:	0.8403 -	val_loss:	0.5690	val_accuracy:	0.7240
	1450/1500 []	1 -	0s	5ms/step -	loss:	0.3749 -	accuracy:	0.8420 -	val loss:	0.5688 -	· val accuracy:	0.7240
Epoch	1451/1500 [=======]											
Epoch	1452/1500											
Epoch	[========] 1453/1500											
	[=====================================	-	0s	5ms/step -	loss:	0.3750 -	accuracy:	0.8403 -	val_loss:	0.5692 -	· val_accuracy:	0.7240
	[=====================================] -	0s	6ms/step -	loss:	0.3747 -	accuracy:	0.8368 -	val_loss:	0.5699 -	val_accuracy:	0.7240
18/18	[=======] 1456/1500] -	0s	6ms/step -	loss:	0.3746 -	accuracy:	0.8420 -	val_loss:	0.5701 -	val_accuracy:	0.7240
18/18	[]] -	0s	5ms/step -	loss:	0.3747 -	accuracy:	0.8420 -	val_loss:	0.5696	val_accuracy:	0.7240
	1457/1500 [=========]] -	0s	6ms/step -	loss:	0.3749 -	accuracy:	0.8420 -	val_loss:	0.5698 -	val_accuracy:	0.7240
	1458/1500 [=======]	1 -	0s	5ms/step -	· loss:	0.3750 -	accuracy:	0.8368 -	val loss:	0.5700 -	· val accuracv:	0.7292
Epoch	1459/1500 [=======]											
Epoch	1460/1500											
Epoch	[=======] 1461/1500											
	[=====================================] -	0s	5ms/step -	loss:	0.3748 -	accuracy:	0.8420 -	val_loss:	0.5706 -	· val_accuracy:	0.7240
18/18	[=======] 1463/1500] -	0s	5ms/step -	loss:	0.3746 -	accuracy:	0.8438 -	val_loss:	0.5706 -	val_accuracy:	0.7240
18/18	[]] -	0s	5ms/step -	loss:	0.3746 -	accuracy:	0.8385 -	val_loss:	0.5710 -	val_accuracy:	0.7240
18/18	1464/1500 [=======]] -	0s	5ms/step -	loss:	0.3749 -	accuracy:	0.8403 -	val_loss:	0.5710	val_accuracy:	0.7240
18/18	1465/1500 [======]] -	0s	5ms/step -	loss:	0.3743 -	accuracy:	0.8420 -	val_loss:	0.5708 -	· val_accuracy:	0.7240
Epoch	1466/1500 [=======]											
Epoch	1467/1500											
Epoch	[========] 1468/1500											
18/18	[========] 1469/1500] -	0s	5ms/step -	loss:	0.3746 -	accuracy:	0.8438 -	val_loss:	0.5711 -	val_accuracy:	0.7240
18/18	[======] 1470/1500] -	0s	6ms/step -	loss:	0.3742 -	accuracy:	0.8438 -	val_loss:	0.5708	· val_accuracy:	0.7240
	[=========]] -	0s	5ms/step -	loss:	0.3743 -	accuracy:	0.8420 -	val_loss:	0.5710 -	· val_accuracy:	0.7240
Epoch 18/18	1471/1500 [=======]] -	0s	5ms/step -	loss:	0.3745 -	accuracy:	0.8420 -	val_loss:	0.5713 -	val_accuracy:	0.7240
Epoch 18/18 Epoch	1471/1500											

```
Epoch 1473/1500
                                 18/18 [===
        Epoch 1474/1500
        18/18 [===
                                ========] - 0s 5ms/step - loss: 0.3744 - accuracy: 0.8403 - val_loss: 0.5715 - val_accuracy: 0.7240
              1475/1500
        18/18
                                          =] - 0s 5ms/step - loss: 0.3744 - accuracy: 0.8351 - val_loss: 0.5721 - val_accuracy: 0.7292
        Epoch 1476/1500
                                        ===] - 0s 5ms/step - loss: 0.3744 - accuracy: 0.8420 - val_loss: 0.5718 - val_accuracy: 0.7240
        18/18 [
        Epoch 1477/1500
        .
18/18 Γ=:
                                 :=======] - 0s 5ms/step - loss: 0.3742 - accuracy: 0.8403 - val loss: 0.5715 - val accuracy: 0.7240
        Epoch 1478/1500
18/18 「===---
                                   Epoch
18/18
                                     ======] - 0s 5ms/step - loss: 0.3743 - accuracy: 0.8438 - val_loss: 0.5726 - val_accuracy: 0.7240
        Epoch 1480/1500
        18/18
                                   =======] - 0s 5ms/step - loss: 0.3741 - accuracy: 0.8420 - val_loss: 0.5730 - val_accuracy: 0.7240
        Epoch 1481/1500
18/18 [======
                                  =======] - 0s 5ms/step - loss: 0.3740 - accuracy: 0.8455 - val_loss: 0.5727 - val_accuracy: 0.7240
              1482/1500
                                     :=====] - 0s 6ms/step - loss: 0.3739 - accuracy: 0.8420 - val_loss: 0.5727 - val_accuracy: 0.7240
        18/18 [=
        Epoch 1483/1500
        18/18 [==
                                 ========] - 0s 5ms/step - loss: 0.3739 - accuracy: 0.8420 - val_loss: 0.5729 - val_accuracy: 0.7240
        Epoch 1484/1500
18/18 [======
                                   1485/1500
        Epoch 1485
18/18 [===
                                          ==] - 0s 6ms/step - loss: 0.3742 - accuracy: 0.8403 - val loss: 0.5728 - val accuracy: 0.7240
        Epoch 1486/1500
        18/18 [==
                                  :======] - 0s 6ms/step - loss: 0.3739 - accuracy: 0.8420 - val_loss: 0.5734 - val_accuracy: 0.7292
       Epoci.
18/18
              1487/1500
                                               0s 6ms/step - loss: 0.3740 - accuracy: 0.8438 - val_loss: 0.5732 - val_accuracy: 0.7240
        Epoch 1488/1500
                                  :=======] - 0s 5ms/step - loss: 0.3742 - accuracy: 0.8438 - val loss: 0.5730 - val accuracy: 0.7240
        18/18 [===
        Epoch 1489/1500
        .
18/18 Γ==
                                 ========] - 0s 6ms/step - loss: 0.3741 - accuracy: 0.8403 - val_loss: 0.5732 - val_accuracy: 0.7240
              1490/1500
                                   1491/1500
        Epoch 149:
18/18 [==:
                                    :======] - 0s 6ms/step - loss: 0.3739 - accuracy: 0.8420 - val_loss: 0.5736 - val_accuracy: 0.7292
        Epoch 1492/1500
18/18 [======
                                   ======] - 0s 8ms/step - loss: 0.3739 - accuracy: 0.8438 - val_loss: 0.5735 - val_accuracy: 0.7292
              1493/1500
                                  Epoch 1494/1500
                                    :=======] - 0s 7ms/step - loss: 0.3737 - accuracy: 0.8385 - val loss: 0.5745 - val accuracy: 0.7292
        18/18 「==
        Epoch 1495/1500
        18/18
                                  ========] - 0s 7ms/step - loss: 0.3737 - accuracy: 0.8438 - val_loss: 0.5740 - val_accuracy: 0.7240
              1496/1500
                                          =] - 0s 7ms/step - loss: 0.3736 - accuracy: 0.8438 - val_loss: 0.5739 - val_accuracy: 0.7292
        18/18 [======
Epoch 1497/1500
                                       =====] - 0s 6ms/step - loss: 0.3738 - accuracy: 0.8438 - val loss: 0.5740 - val accuracy: 0.7240
        18/18 [==:
        Epoch 1498/1500
        18/18
                                    ======] - 0s 6ms/step - loss: 0.3739 - accuracy: 0.8403 - val_loss: 0.5749 - val_accuracy: 0.7292
            h 1499/1500
                               ========] - 0s 6ms/step - loss: 0.3737 - accuracy: 0.8420 - val_loss: 0.5745 - val_accuracy: 0.7292
        Epoch 1500/1500
        In [ ]: #y_pred_class_nn = new_model.predict(X_test_norm)
#y_pred_prob_nn = np.argmax(y_pred_class_nn, axis=1)
In [ ]: y_pred_prob_nnew = new_model.predict(X_test_norm)
        y_pred_class_nnew = (y_pred_prob_nnew > 0.5).astype('int32')
        6/6 [=====] - 0s 2ms/step
In [ ]: y_pred_class_nnew[:10]
Out[ ]: array([[1],
               [0],
               [0],
               [0],
[1],
[0],
[0],
               [0]1, dtvpe=int32)
In [ ]: y_pred_prob_nnew[:10]
Out[]: array([[0.84498954],
               [0.54498696],
[0.54498696],
[0.37894908],
[0.09194799],
               [0.14860062],
               [0.7145625 ].
               [0.00742441].
               [0 4904466 ]
              [0.85841143],
[0.19457255]], dtype=float32)
           piot_roc(y_test, y_pred, new_model_name):
fpr, tpr, thr = roc_curve(y_test, y_pred)
fig, ax = plr.subplots(figsize=(8, 8))
ax.plot(fpr, tpr, 'k-')
ax.plot([0, 1], [0, 1], 'k--', linewidth=.5) # roc curve for rai
ax.grid(True)
In [ ]: def plot_roc(y_test, y_pred, new_model_name)
           In [ ]: print('accuracy is {:.3f}'.format(accuracy_score(y_test,y_pred_class_nnew)))#y_pred_prob_nnew
print('roc-auc is {:.3f}'.format(roc_auc_score(y_test,y_pred_prob_nnew)))#y_pred_prob_nnew
        plot_roc(y_test, y_pred_prob_nnew, 'NN')
        accuracy is 0.729
roc-auc is 0.784
```



• This model shows worst result even though we've used more than 1 hidden layer, The model shows a moderate level of accuracy, and The ROC-AUC score of 0.801 suggests a satisfactory discrimination ability, indicating that the model performs reasonably well in distinguishing between positive and negative cases.

```
In []: #print('accuracy is {:.3f}'.format(accuracy_score(y_test, y_pred_class_nn)))#y_pred_class_nn
#print('roc-auc is {:.3f}'.format(roc_auc_score(y_test, y_pred_prob_nn)))#y_pred_prob_nn

#plot_roc(y_test, y_pred_prob_nn, 'NN')

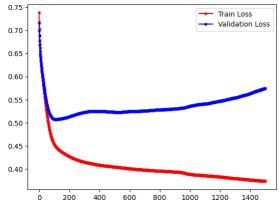
In []: run_hist_2.history.keys()

Out[]: dict_keys(['loss', 'accuracy', 'val_loss', 'val_accuracy'])

In []: fig, ax = plt.subplots()
ax.plot(run_hist_2.history["loss"],'r', marker='.', label="Train_Loss")
ax.plot(run_hist_2.history["val_loss"],'b', marker='.', label="Validation_Loss")
ax.legend()

Out[]: cmatplotlib.legend.Legend at 0x7cf71b655600>

Out[]: Train_loss
```



Learning rate = 001, epochs = 800,

```
Epoch 1/800
                                     - 1s 14ms/step - loss: 0.7897 - accuracy: 0.3715 - val_loss: 0.7313 - val_accuracy: 0.4323
18/18 [====
Epoch 2/800
18/18 [====
                        3/800
18/18
                                          4ms/step - loss: 0.7134 - accuracy: 0.5208 - val_loss: 0.6812 - val_accuracy: 0.5833
      4/800
Epoch
                                       0s 4ms/step - loss: 0.6950 - accuracy: 0.5938 - val_loss: 0.6704 - val_accuracy: 0.6250
18/18 [====
Epoch 5/800
18/18 Γ====
                      6/800
Epoch
18/18
Epoch 7/806
18/18 [====
                                          4ms/step - loss: 0.6662 - accuracy: 0.6753 - val loss: 0.6510 - val accuracy: 0.6562
Epoch 8/800
18/18 F=
                                       0s 4ms/step - loss: 0.6596 - accuracy: 0.6771 - val loss: 0.6458 - val accuracy: 0.6615
Epoch 9
18/18 [
      9/800
                                                   - loss: 0.6538 -
                                                                   accuracy: 0.6875 - val_loss: 0.6411 - val_accuracy: 0.6562
Epoch 10/800
                                       0s 4ms/step - loss: 0.6486 - accuracy: 0.6979 - val_loss: 0.6367 - val_accuracy: 0.6667
18/18 [=
Epoch 11/800
18/18 F
                         ========= 1 - 0s 4ms/step - loss: 0.6437 - accuracv: 0.7049 - val loss: 0.6324 - val accuracv: 0.6719
Epoch 12/800
18/18 [====
                                          4ms/step - loss: 0.6389 - accuracy: 0.7066 - val_loss: 0.6284 - val_accuracy: 0.6719
18/18 [=====
Epoch 13/800
18/18 [=====
                                       0s 3ms/step - loss: 0.6343 - accuracy: 0.7101 - val loss: 0.6245 - val accuracy: 0.6823
Epoch 14/800
18/18 [=====
                                          4ms/step - loss: 0.6301 - accuracy: 0.7118 - val loss: 0.6208 - val accuracy: 0.6927
Epoch
18/18
   nch 15/800
                                                                   accuracy: 0.7135 - val_loss: 0.6171 - val_accuracy: 0.6979
18/18 [=====
Epoch 16/800
18/18 [====
Epoch 17/800
                                       0s 5ms/step - loss: 0.6216 - accuracy: 0.7153 - val loss: 0.6135 - val accuracy: 0.7031
18/18 F
                        :========] - 0s 4ms/step - loss: 0.6176 - accuracy: 0.7188 - val loss: 0.6098 - val accuracy: 0.7031
Epoch 18/800
18/18 [====
     [====
19/800
Epoch 19/800
18/18 [====
                                          4ms/step - loss: 0.6096 - accuracy: 0.7188 - val_loss: 0.6026 - val_accuracy: 0.7083
Epoch 20/800
18/18 [====
                                       0s 4ms/step - loss: 0.6057 - accuracy: 0.7170 - val_loss: 0.5989 - val_accuracy: 0.7188
      21/800
                                                   - loss: 0.6019 - accuracy: 0.7135 - val_loss: 0.5952 - val_accuracy: 0.7188
Epoch 22/800
                                     - 0s 4ms/step - loss: 0.5981 - accuracy: 0.7135 - val loss: 0.5915 - val accuracy: 0.7188
18/18 F=
Epoch 23/800
18/18 I
                          24/800
                                       Os 4ms/step - loss: 0.5904 - accuracy: 0.7240 - val loss: 0.5841 - val accuracy: 0.7292
18/18 [=====
Epoch 25/800
18/18 [====
                                       0s 4ms/step - loss: 0.5864 - accuracy: 0.7240 - val loss: 0.5803 - val accuracy: 0.7292
Epoch 26/800
18/18 F:
                                          4ms/step - loss: 0.5825 - accuracy: 0.7292 - val_loss: 0.5765 - val_accuracy: 0.7292
      27/800
Epoch
18/18
                                          4ms/step - loss: 0.5783 - accuracy: 0.7257 - val_loss: 0.5727 - val_accuracy: 0.7240
18/18 [====
Epoch 28/800
18/18 [====
                        =========] - 0s 4ms/step - loss: 0.5742 - accuracy: 0.7257 - val_loss: 0.5689 - val_accuracy: 0.7188
Fnoch 29/800
18/18 F
                                          5ms/step - loss: 0.5699 - accuracy: 0.7326 - val_loss: 0.5651 - val_accuracy: 0.7240
      30/800
      31/800
Epoch 31/
18/18 [==
                                          4ms/step - loss: 0.5617 - accuracy: 0.7396 - val loss: 0.5574 - val accuracy: 0.7344
Epoch 32/800
18/18 Γ====
                                          4ms/step - loss: 0.5576 -
                                                                   accuracy: 0.7396 - val_loss: 0.5536 - val_accuracy: 0.7344
      33/800
Epoch 33
18/18 [=
                                       Os 4ms/step - loss: 0.5535 - accuracy: 0.7448 - val loss: 0.5497 - val accuracy: 0.7396
Epoch 34/800
18/18 [====
                           ========] - 0s 4ms/step - loss: 0.5494 - accuracy: 0.7465 - val loss: 0.5461 - val accuracy: 0.7396
Epoch
      35/800
18/18
                                       Os 4ms/step - loss: 0.5457 - accuracy: 0.7483 - val_loss: 0.5427 - val_accuracy: 0.7448
      1
36/800
Epoch 36/800
18/18 [====
Epoch 37/800
                                       Os 4ms/step - loss: 0.5419 - accuracy: 0.7465 - val_loss: 0.5396 - val_accuracy: 0.7448
18/18 [==:
                                       0s 4ms/step - loss: 0.5383 - accuracy: 0.7483 - val loss: 0.5366 - val accuracy: 0.7448
Epoch
18/18
      38/800
                                                                   accuracy: 0.7483 - val_loss: 0.5336 - val_accuracy: 0.7448
      [====
39/800
                                          4ms/step - loss: 0.5350 -
Epoch 39/800
18/18 [====
Epoch 40/800
                                          3ms/step - loss: 0.5318 - accuracy: 0.7483 - val_loss: 0.5309 - val_accuracy: 0.7552
18/18 F=
                        Fnoch 41/800
18/18
                                          3ms/step - loss: 0.5257 - accuracy: 0.7483 - val loss: 0.5259 - val accuracy: 0.7500
Epoch 42/800
18/18 [====
Epoch 43/800
                                          5ms/step - loss: 0.5229 - accuracy: 0.7517 - val loss: 0.5237 - val accuracy: 0.7552
18/18 [====
                                       0s 4ms/step - loss: 0.5202 - accuracy: 0.7517 - val loss: 0.5216 - val accuracy: 0.7552
Epoch 44/800
18/18 [====
Epoch 45/800
                                                     loss: 0.5178 -
                                                                   accuracy: 0.7517 - val_loss: 0.5196 - val_accuracy: 0.7552
                                       Os 4ms/step - loss: 0.5154 - accuracy: 0.7535 - val_loss: 0.5177 - val_accuracy: 0.7552
18/18 [==
Epoch 46/800
18/18 F==
                         ch 47/800
Epoch 47/800
18/18 [=====
Epoch 48/800
18/18 [=====
Epoch 49/800
                                          4ms/step - loss: 0.5109 - accuracy: 0.7535 - val_loss: 0.5140 - val_accuracy: 0.7604
                                       0s 4ms/step - loss: 0.5087 - accuracy: 0.7500 - val loss: 0.5123 - val accuracy: 0.7604
18/18 F==
                                       0s 4ms/step - loss: 0.5067 - accuracy: 0.7517 - val loss: 0.5106 - val accuracy: 0.7656
      50/800
Epoch
18/18
                                                                   accuracy: 0.7535 - val_loss: 0.5090 - val_accuracy: 0.7656
      [====
51/800
Epoch 51/
18/18 [==
                                       0s 3ms/step - loss: 0.5028 - accuracy: 0.7587 - val_loss: 0.5074 - val_accuracy: 0.7656
Epoch 52/800
18/18
                         ========] - 0s 3ms/step - loss: 0.5008 - accuracy: 0.7587 - val loss: 0.5059 - val accuracy: 0.7708
      53/800
18/1
Epoch 54/6
18/18 [=====
3ch 55/800
                                          4ms/step - loss: 0.4973 - accuracy: 0.7622 - val_loss: 0.5028 - val_accuracy: 0.7604
                          56/800
                                                   - loss: 0.4940 - accuracy: 0.7639 - val_loss: 0.5000 - val_accuracy: 0.7656
      57/800
Epoch
                                       0s 4ms/step - loss: 0.4923 - accuracy: 0.7656 - val loss: 0.4986 - val accuracy: 0.7760
18/18 [=
Epoch 58/800
18/18 F
                         59/800
Epoch
18/18
      60/800
Epoch
18/18 [==
                           =======] - 0s 5ms/step - loss: 0.4879 - accuracy: 0.7604 - val loss: 0.4948 - val accuracy: 0.7760
Epoch 61/800
.
18/18 Γ=
                                       0s 4ms/step - loss: 0.4865 - accuracy: 0.7639 - val loss: 0.4937 - val accuracy: 0.7812
4ms/step - loss: 0.4852 - accuracy: 0.7674 - val_loss: 0.4926 - val_accuracy: 0.7812
                         ========] - 0s 3ms/step - loss: 0.4838 - accuracy: 0.7674 - val_loss: 0.4916 - val_accuracy: 0.7812
Epoch 64/800
18/18 [====
                  :========] - 0s 4ms/step - loss: 0.4826 - accuracy: 0.7674 - val_loss: 0.4905 - val_accuracy: 0.7865
```

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Epoch 65/800
                                             0s 4ms/step - loss: 0.4815 - accuracy: 0.7674 - val_loss: 0.4896 - val_accuracy: 0.7865
18/18 [====
Epoch 66/800
18/18 Γ==
                                             0s 4ms/step - loss: 0.4803 - accuracy: 0.7691 - val loss: 0.4887 - val accuracy: 0.7865
       67/800
 18/18 [
                                                4ms/step - loss: 0.4792 - accuracy: 0.7726 - val_loss: 0.4879 - val_accuracy: 0.7917
Epoch 68/800
                                             0s 5ms/step - loss: 0.4782 - accuracy: 0.7743 - val_loss: 0.4871 - val_accuracy: 0.7917
18/18 [====
Epoch 69/800
18/18 Γ==
                                             0s 5ms/step - loss: 0.4772 - accuracy: 0.7760 - val loss: 0.4863 - val accuracy: 0.7969
       70/800
 Epoch
18/18
                                                4ms/step - loss: 0.4755 - accuracy: 0.7795 - val loss: 0.4849 - val accuracy: 0.7917
Epoch 72/800
 .
18/18 Г
                                                4ms/step - loss: 0.4746 - accuracy: 0.7812 - val loss: 0.4843 - val accuracy: 0.7917
       73/800
Epoch
18/18
                                                            loss: 0.4737 -
                                                                            accuracy: 0.7812 - val_loss: 0.4836 -
       [=====
74/800
                                                4ms/step - loss: 0.4729 - accuracy: 0.7847 - val_loss: 0.4831 - val_accuracy: 0.7969
 18/18 [=
Epoch 75/800
18/18 [==
                                          - 0s 4ms/step - loss: 0.4722 - accuracy: 0.7830 - val loss: 0.4826 - val accuracy: 0.7969
       76/800
       77/800
Epoch 77/8
18/18 [===
                                                4ms/step - loss: 0.4707 - accuracy: 0.7812 - val loss: 0.4818 - val accuracy: 0.7917
Epoch 78/800
18/18 [=====
                                                4ms/sten - loss: 0.4699 - accuracy: 0.7830 - val loss: 0.4814 - val accuracy: 0.7917
       79/800
 Epoch
18/18
18/18 [====
Epoch 80/800
 18/18 [==
                                             0s 4ms/step - loss: 0.4686 - accuracy: 0.7830 - val loss: 0.4807 - val accuracy: 0.7865
 Epoch 81/800
18/18 F
                                             0s 4ms/step - loss: 0.4680 - accuracy: 0.7812 - val loss: 0.4803 - val accuracy: 0.7865
       82/800
      83/800
Epoch 83/80
18/18 [====
                                                5ms/step - loss: 0.4668 - accuracy: 0.7812 - val_loss: 0.4797 - val_accuracy: 0.7865
 Epoch 84/800
18/18 [====
                                                5ms/step - loss: 0.4661 - accuracy: 0.7812 - val_loss: 0.4794 - val_accuracy: 0.7865
       85/800
                                                            loss: 0.4655 -
                                                                            accuracy: 0.7812 -
Epoch 86/800
                                             0s 7ms/step - loss: 0.4651 - accuracy: 0.7812 - val_loss: 0.4790 - val accuracy: 0.7865
 18/18 「==
 Epoch 87/800
 18/18 F
                                             0s 5ms/step - loss: 0.4645 - accuracy: 0.7847 - val loss: 0.4789 - val accuracy: 0.7865
Epoch 88/800
18/18 [====
Epoch 89/800
                                                5ms/step - loss: 0.4641 - accuracy: 0.7847 - val loss: 0.4787 - val accuracy: 0.7865
18/18 [====
                                             0s 5ms/step - loss: 0.4637 - accuracy: 0.7847 - val loss: 0.4785 - val accuracy: 0.7812
 Epoch 90/800
 18/18 F:
                                                5ms/step - loss: 0.4631 - accuracy: 0.7882 - val_loss: 0.4783 - val_accuracy: 0.7812
Epoch 91/800
18/18 [====
Epoch 92/800
                                                                            accuracy: 0.7865 - val_loss: 0.4782 - val_accuracy: 0.7812
18/18 [====
Epoch 93/800
                                             0s 6ms/step - loss: 0.4623 - accuracy: 0.7865 - val loss: 0.4781 - val accuracy: 0.7760
 18/18
                                                5ms/step - loss: 0.4619 - accuracy: 0.7865 - val loss: 0.4780 - val accuracy: 0.7760
       94/800
       95/800
 Epoch
18/1c
Epoch 96/c
18/18 [=====
30ch 97/800
                                                5ms/step - loss: 0.4611 - accuracy: 0.7899 - val loss: 0.4778 - val accuracy: 0.7760
                                                                            accuracy: 0.7899 -
                                                                                                 val loss: 0.4778 - val accuracy: 0.7708
                                                                                               - val loss: 0.4777
                                                           - loss: 0.4603 - accuracy: 0.7899
                                                                                                                    - val accuracy: 0.7708
Epoch 98/800
18/18 [=====
                                             0s 5ms/step - loss: 0.4599 - accuracy: 0.7899 - val loss: 0.4777 - val accuracy: 0.7708
 Epoch 99/800
 18/18
                                                6ms/step - loss: 0.4594 - accuracy: 0.7899 - val_loss: 0.4776 - val_accuracy: 0.7708
       100/800
Epoch 100/800
18/18 [=====
Epoch 101/800
                                                5ms/step - loss: 0.4592 - accuracy: 0.7899 - val_loss: 0.4775 - val_accuracy: 0.7760
18/18 [==
                                                8ms/step - loss: 0.4589 - accuracy: 0.7882 - val loss: 0.4774 - val accuracy: 0.7760
Epoch 102/800
18/18 [=====
                                                                            accuracy: 0.7865 - val_loss: 0.4773 - val_accuracy: 0.7760
        103/800
 Epoch
18/18
                                                                          - accuracy: 0.7847 - val_loss: 0.4773 - val_accuracy: 0.7760
18/18 [=====
Epoch 104/800
18/18 F
                                             0s 6ms/step - loss: 0.4579 - accuracy: 0.7847 - val loss: 0.4772 - val accuracy: 0.7812
 Fnoch 105/800
 18/18
                                                            loss: 0.4574 -
                                                                            accuracy: 0.7847 - val loss: 0.4771 - val accuracy: 0.7812
       106/800
 Epoch
18/18
                                                            loss: 0.4570 - accuracy: 0.7847 - val loss: 0.4770 - val accuracy: 0.7760
18/18 [=====
Epoch 107/800
18/18 Γ==
                                                5ms/step - loss: 0.4569 - accuracy: 0.7830 - val loss: 0.4769 - val accuracy: 0.7708
Epoch 108/800
18/18 [=====
                                                                            accuracy: 0.7847 - val_loss: 0.4768 -
       [=====
109/800
                                             0s 6ms/step - loss: 0.4563 - accuracy: 0.7847 - val_loss: 0.4767 - val_accuracy: 0.7708
 18/18 [==
Epoch 110/800
18/18 F
                                          - 0s 7ms/step - loss: 0.4560 - accuracy: 0.7830 - val loss: 0.4767 - val accuracy: 0.7760
   noch 111/800
18/18
                                                6ms/step - loss: 0.4557 - accuracy: 0.7812 - val_loss: 0.4767 - val_accuracy: 0.7812
Epoch 112/800
18/18 [=====
                                             0s 5ms/step - loss: 0.4555 - accuracy: 0.7830 - val loss: 0.4766 - val accuracy: 0.7812
18/18 [=====
Epoch 113/800
18/18 F
                                                5ms/sten - loss: 0.4552 - accuracy: 0.7830 - val loss: 0.4766 - val accuracy: 0.7812
Epoch 114/800
18/18 [======
                                                                            accuracy: 0.7847 - val_loss: 0.4765 - val_accuracy: 0.7812
       115/800
 Epoch 115
18/18 [==
                                                5ms/step - loss: 0.4547 - accuracy: 0.7830 - val_loss: 0.4764 - val_accuracy: 0.7812
Epoch 116/800
18/18
                                                6ms/step - loss: 0.4546 - accuracy: 0.7847 - val loss: 0.4764 - val accuracy: 0.7812
Epoch 117/800
18/18 [=====
       118/800
Epoch 118
18/18 [==
                                                4ms/step - loss: 0.4542 - accuracy: 0.7812 - val_loss: 0.4763 - val_accuracy: 0.7760
Epoch 119/800
18/18 F=
                                                4ms/step - loss: 0.4539 - accuracy: 0.7812 - val loss: 0.4762 - val accuracy: 0.7760
       120/800
                                                          - loss: 0.4537 - accuracy: 0.7812 - val_loss: 0.4761 -
       121/800
Epoch
                                             Os 3ms/step - loss: 0.4536 - accuracy: 0.7812 - val loss: 0.4760 - val accuracy: 0.7760
 18/18 [=
Epoch 122/800
 18/18
                                             0s 6ms/step - loss: 0.4532 - accuracy: 0.7795 - val loss: 0.4759 - val accuracy: 0.7760
 Epoch
18/18
       123/800
18/18 [=====
Epoch 124/800
18/18
                                             0s 3ms/step - loss: 0.4529 - accuracy: 0.7795 - val loss: 0.4758 - val accuracy: 0.7760
 18/18 [=====
Epoch 125/800
18/18
                                             0s 4ms/step - loss: 0.4529 - accuracy: 0.7778 - val loss: 0.4758 - val accuracy: 0.7760
       126/800
                                                4ms/step - loss: 0.4526 - accuracy: 0.7812 - val_loss: 0.4757 - val_accuracy: 0.7760
       127/800
                             ========] - 0s 3ms/step - loss: 0.4524 - accuracy: 0.7812 - val_loss: 0.4757 - val_accuracy: 0.7760
 18/18 [==
Epoch 128/800
18/18 [=====
                       =========] - 0s 4ms/step - loss: 0.4525 - accuracy: 0.7812 - val_loss: 0.4756 - val_accuracy: 0.7760
```

March		129/800 []	_	as	4ms/sten	- loss.	0 4521 -	accuracy:	0 7795 -	val loss:	0 4756 -	· val accuracy:	0 7760
Composition	Epoch	130/800						-		_			
Second 12/2006	Epoch	131/800						-		_			
18.			-	0s	4ms/step	- loss:	0.4517 -	accuracy:	0.7795 -	val_loss:	0.4754 -	· val_accuracy:	0.7760
1.5 1.5	18/18	[]	-	0s	4ms/step	- loss:	0.4516 -	accuracy:	0.7795 -	val_loss:	0.4754	val_accuracy:	0.7760
10.00 1.00	18/18	[=======]	-	0s	4ms/step	- loss:	0.4515 -	accuracy:	0.7795 -	val_loss:	0.4754	val_accuracy:	0.7760
19.11			_	0s	5ms/step	- loss:	0.4512 -	accuracy:	0.7812 -	val_loss:	0.4754	· val_accuracy:	0.7760
Dec. 15/10/96	Epoch	135/800						-		_			
Section 127/2003	Epoch	136/800						-		_			
13.718			-	0s	4ms/step	- loss:	0.4509 -	accuracy:	0.7812 -	val_loss:	0.4754 -	· val_accuracy:	0.7760
18.73	18/18	[]	-	0s	4ms/step	- loss:	0.4508 -	accuracy:	0.7795 -	val_loss:	0.4754	· val_accuracy:	0.7760
18/18	18/18	[]	-	0s	4ms/step	- loss:	0.4507 -	accuracy:	0.7778 -	val_loss:	0.4754	val_accuracy:	0.7760
19.11			-	0s	4ms/step	- loss:	0.4506 -	accuracy:	0.7795 -	val_loss:	0.4754	· val_accuracy:	0.7760
See 14/789			_	۵c	Ams/stan	- 1000	0 1501 -	accuracy:	0 7795 -	val loss:	0 1751 .	val accuracy:	0 7760
Tench 12/7/80	Epoch	141/800											
Tench 15/1868			-	ØS.	4ms/step	- loss:	0.4503 -	accuracy:	0.7812 -	· val_loss:	0.4/54	· val_accuracy:	0.7760
18.718			-	0s	4ms/step	- loss:	0.4502 -	accuracy:	0.7812 -	val_loss:	0.4754 -	val_accuracy:	0.7812
19.11	18/18	[]	-	0s	4ms/step	- loss:	0.4500 -	accuracy:	0.7812 -	val_loss:	0.4754	val_accuracy:	0.7812
18.718			-	0s	4ms/step	- loss:	0.4499 -	accuracy:	0.7812 -	val_loss:	0.4754	· val_accuracy:	0.7812
Sept 19/18			_	9s	4ms/sten	- loss:	0.4498 -	accuracy:	0.7812 -	val loss:	0.4754	· val accuracy:	0.7812
	Epoch	146/800						-		_			
Epoch 154/898			-	0s	4ms/step	- loss:	0.4495 -	accuracy:	0.7812 -	val_loss:	0.4754	· val_accuracy:	0.7812
19/18	18/18	[]	-	0s	4ms/step	- loss:	0.4495 -	accuracy:	0.7812 -	val_loss:	0.4754 -	val_accuracy:	0.7812
19.18	18/18	[]	-	0s	4ms/step	- loss:	0.4494 -	accuracy:	0.7812 -	val_loss:	0.4755 -	· val_accuracy:	0.7812
19/18	18/18	[]	-	0s	4ms/step	- loss:	0.4493 -	accuracy:	0.7830 -	val_loss:	0.4755	· val_accuracy:	0.7812
Specific Specific			_	05	4ms/sten	- loss:	0.4491 -	accuracy.	0.7812 -	val loss:	0.4755	· val accuracy:	0.7812
Spech 15/1989 05 48s/step 10ss: 0.4489 accuracy: 0.7812 val_loss: 0.4755 val_accuracy: 0.7812 val_loss: 0.4754 val_accuracy: 0.7814 val_accuracy: 0.7812 val_loss: 0.4754 val_accuracy: 0.7812 val_accuracy: 0.7812 val_accuracy: 0.7812 val_accuracy: 0.7812 val_accuracy: 0.7812 val_accuracy: 0.7812 val_accuracy: 0.7813 val_accu	Epoch	151/800						-		_			
Booch 135/800 08 4ms/step 10ss: 0.4486 - accuracy: 0.7847 - val_loss: 0.4754 - val_accuracy: 0.8560 136/800 08 4ms/step 10ss: 0.4486 - accuracy: 0.7812 - val_loss: 0.4754 - val_accuracy: 0.8560 13/18	Epoch	152/800						-		_			
18/18			-	0s	4ms/step	- loss:	0.4489 -	accuracy:	0.7812 -	val_loss:	0.4755 -	· val_accuracy:	0.7812
18/18	18/18	[]	-	0s	4ms/step	- loss:	0.4486 -	accuracy:	0.7847 -	val_loss:	0.4754	· val_accuracy:	0.7812
	18/18	[]	-	0s	4ms/step	- loss:	0.4486 -	accuracy:	0.7812 -	val_loss:	0.4754	val_accuracy:	0.7812
Epoch 155/800 13/18 [_	0s	4ms/step	- loss:	0.4486 -	accuracy:	0.7812 -	val_loss:	0.4754	· val_accuracy:	0.7812
	Epoch	156/800											
Epoch 153/809	Epoch	157/800											
Epoch 165/809 18/18			-	0s	4ms/step	- loss:	0.4482 -	accuracy:	0.7847 -	· val_loss:	0.4754	· val_accuracy:	0.7812
18/18 [-	0s	4ms/step	- loss:	0.4482 -	accuracy:	0.7812 -	val_loss:	0.4753 -	val_accuracy:	0.7812
18/18	18/18	[]	-	0s	5ms/step	- loss:	0.4479 -	accuracy:	0.7830 -	val_loss:	0.4753 -	val_accuracy:	0.7812
18/18			-	0s	5ms/step	- loss:	0.4478 -	accuracy:	0.7812 -	val_loss:	0.4752 -	val_accuracy:	0.7812
Epoch 16//808 19/5 1055: 8.4475 1055: 8.4475 1055: 8.4752 1055: 8.4752 1041 1055: 8.4752 1041 1055: 8.4752 1041 1055: 8.4752 1041 1055: 8.4752 1041 1055: 8.4752 1041 1055: 8.4751 1041 1045: 8.4751 1041 1045: 8.4751			_	0s	4ms/step	- loss:	0.4478 -	accuracy:	0.7830 -	val loss:	0.4752 -	· val accuracv:	0.7812
Epoch 163/808 08 4ms/step 10ss: 0.4475 accuracy: 0.7812 val_loss: 0.4752 val_accuracy: 0.7812 val_loss: 0.4751 val_accuracy: 0.7818 val_accuracy: 0.7818	Epoch	162/800											
Book 16/8080 Sams/step - loss: 8.4473 - accuracy: 8.7812 - val_loss: 8.4751 - val_accuracy: 9.7812 - val_loss: 9.4751 - val_accuracy: 9.7812 - val_accuracy:	Epoch	163/800											
18/18			-	0s	4ms/step	- loss:	0.4475 -	accuracy:	0.7812 -	val_loss:	0.4752 -	· val_accuracy:	0.7812
18/18	18/18	[]	-	0s	4ms/step	- loss:	0.4473 -	accuracy:	0.7812 -	val_loss:	0.4751 -	val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	5ms/step	- loss:	0.4472 -	accuracy:	0.7812 -	val_loss:	0.4751 -	val_accuracy:	0.7812
18/18 [============== - 05 5m/step - loss: 0.4469 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 fbooth 168/800 18/18 [=========== - 05 5m/step - loss: 0.4469 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 fbooth 169/800 18/18 [=========== - 05 5m/step - loss: 0.4468 - accuracy: 0.7812 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [========== - 05 5m/step - loss: 0.4466 - accuracy: 0.7830 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [========== - 05 5m/step - loss: 0.4466 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [========== - 05 5m/step - loss: 0.4466 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [========== - 05 5m/step - loss: 0.4464 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [========== - 05 5m/step - loss: 0.4464 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [========== - 05 5m/step - loss: 0.4464 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [========== - 05 5m/step - loss: 0.4464 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [=========== - 05 5m/step - loss: 0.4461 - accuracy: 0.7796 - val_loss: 0.4751 - val_accuracy: 0 fbooth 179/800 18/18 [====================================			_	0s	4ms/step	- loss:	0.4471 -	accuracy:	0.7795 -	val_loss:	0.4751 -	· val_accuracy:	0.7812
Epoch 168/1800			_	۵s	5ms/sten	- loss:	0 4469 -	accuracy:	a 7795 -	- val loss:	0 4751 -	- val accuracy:	a 7812
Epoch 176/800 19/	Epoch	168/800						-		_			
Epoch 176/800 18/18 [====================================	Epoch	169/800						-		_			
18/18 [====================================			-	0s	4ms/step	- loss:	0.4468 -	accuracy:	0.7812 -	val_loss:	0.4751 -	· val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4466 -	accuracy:	0.7830 -	val_loss:	0.4751 -	val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4466 -	accuracy:	0.7795 -	val_loss:	0.4751	val_accuracy:	0.7812
Epoch 173/809			_	0s	4ms/step	- loss:	0.4464 -	accuracy:	0.7795 -	val loss:	0.4751 -	· val accuracy:	0.7812
Epoch 174/800 18/18 [====================================	Epoch	173/800											
Epoch 175/800 18/18 [====================================	Epoch	174/800											
18/18 [====================================			-	0s	4ms/step	- loss:	0.4463 -	accuracy:	0.7760 -	vai_loss:	0.4751 -	· val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4461 -	accuracy:	0.7778 -	val_loss:	0.4751	<pre>val_accuracy:</pre>	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4461 -	accuracy:	0.7795 -	val_loss:	0.4752 -	val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4459 -	accuracy:	0.7812 -	val_loss:	0.4752	val_accuracy:	0.7812
Epoch 179/800 18/18 [====================================			_	۵s	4ms/sten	- loss.	0.4459 -	accuracy.	0.7778 -	val loss	0.4752	· val accuracy:	0.7812
Epoch 180/800 18/18 [====================================	Epoch	179/800											
Epoch 181/800 18/18 [====================================	Epoch	180/800											
18/18 [====================================			-	0s	4ms/step	- loss:	0.4457 -	accuracy:	0.7778 -	val_loss:	0.4752 -	val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4456 -	accuracy:	0.7760 -	val_loss:	0.4751 -	val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4456 -	accuracy:	0.7795 -	val_loss:	0.4751 -	val_accuracy:	0.7812
Epoch 184/800 18/18 [====================================			_	0s	4ms/step	- loss:	0.4455 -	accuracy:	0.7778 -	val_loss:	0.4752	· val_accuracv:	0.7812
Epoch 185/800 18/18 [====================================	Epoch	184/800						-		_			
Epoch 186/800 18/18 [====================================	Epoch	185/800						-		_			
18/18 [====================================			-	0s	4ms/step	- loss:	0.4454 -	accuracy:	0.7795 -	vai_loss:	0.4752 -	· val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4452 -	accuracy:	0.7795 -	val_loss:	0.4752 -	val_accuracy:	0.7812
18/18 [====================================	18/18	[]	-	0s	4ms/step	- loss:	0.4453 -	accuracy:	0.7778 -	val_loss:	0.4752 -	val_accuracy:	0.7812
Epoch 189/800 18/18 [=========] - 0s 5ms/step - loss: 0.4450 - accuracy: 0.7812 - val_loss: 0.4752 - val_accuracy: 0 Epoch 19/800 18/18 [=====================] - 0s 4ms/step - loss: 0.4450 - accuracy: 0.7778 - val_loss: 0.4751 - val_accuracy: 0 Epoch 191/800 18/18 [===============] - 0s 4ms/step - loss: 0.4449 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 Epoch 192/800			-	0s	4ms/step	- loss:	0.4452 -	accuracy:	0.7778 -	val_loss:	0.4751 -	· val_accuracy:	0.7760
Epoch 190/800 190/800 190/800 190/800 0.4450 - accuracy: 0.7778 - val_loss: 0.4751 - val_accuracy: 0	Epoch	189/800						-		_			
Epoch 191/800 18/18 [====================================	Epoch	190/800											
18/18 [========] - 0s 4ms/step - loss: 0.4449 - accuracy: 0.7795 - val_loss: 0.4751 - val_accuracy: 0 Epoch 192/800			-	0s	4ms/step	- loss:	0.4450 -	accuracy:	0.7778 -	vai_loss:	0.4751 -	· val_accuracy:	0.7812
	18/18	[]	-	0s	4ms/step	- loss:	0.4449 -	accuracy:	0.7795 -	val_loss:	0.4751 -	val_accuracy:	0.7760
,,,			-	0s	4ms/step	- loss:	0.4448 -	accuracy:	0.7830 -	val_loss:	0.4751	val_accuracy:	0.7760

	193/800												
	[======================================] -	0s	4ms/step	-	loss:	0.4447 -	accuracy:	0.7795	- val_loss:	0.4752	- val_accuracy:	0.7760
8/18	194/800 [===================================] -	0s	4ms/step	-	loss:	0.4446 -	accuracy:	0.7778	- val_loss:	0.4751	- val_accuracy:	0.7760
	195/800 [===================================] -	0s	4ms/step	_	loss:	0.4446 -	accuracy:	0.7812	- val_loss:	0.4752	- val_accuracy:	0.7760
poch :	196/800 [========							-		_			
poch :	197/800							-		_			
	[=====================================] -	0s	4ms/step	-	loss:	0.4444 -	accuracy:	0.7795	- val_loss:	0.4752	- val_accuracy:	0.7708
	[=====================================] -	0s	4ms/step	-	loss:	0.4444 -	accuracy:	0.7795	- val_loss:	0.4753	- val_accuracy:	0.7708
8/18	[] -	0s	4ms/step	-	loss:	0.4443 -	accuracy:	0.7795	- val_loss:	0.4753	- val_accuracy:	0.7708
	200/800 [===================================] -	0s	4ms/step	_	loss:	0.4443 -	accuracy:	0.7743	- val_loss:	0.4752	- val_accuracy:	0.7760
poch 2	201/800 [=======												
poch 2	202/800												
	[=====================================] -	· Øs	4ms/step	-	loss:	0.4441 -	accuracy:	0.7795	- val_loss:	0.4/53	- val_accuracy:	0.7708
	[=====================================] -	0s	4ms/step	-	loss:	0.4438 -	accuracy:	0.7778	- val_loss:	0.4753	- val_accuracy:	0.7708
18/18	[======================================] -	0s	4ms/step	-	loss:	0.4439 -	accuracy:	0.7778	- val_loss:	0.4752	- val_accuracy:	0.7708
18/18	205/800 [===================================] -	0s	4ms/step	-	loss:	0.4438 -	accuracy:	0.7795	- val_loss:	0.4753	- val_accuracy:	0.7708
	206/800 [===================================	1 -	0s	4ms/step	_	loss:	0.4438 -	accuracy:	0.7778	- val loss:	0.4752	- val accuracy:	0.7708
poch 2	207/800 [========												
poch 2	208/800												
	[=====================================] -	0s	4ms/step	-	loss:	0.4436 -	accuracy:	0.7795	- val_loss:	0.4752	- val_accuracy:	0.7708
18/18	[=====================================] -	0s	4ms/step	-	loss:	0.4436 -	accuracy:	0.7812	- val_loss:	0.4753	val_accuracy:	0.7708
8/18	210/800 [===================================] -	0s	4ms/step	-	loss:	0.4435 -	accuracy:	0.7778	- val_loss:	0.4753	- val_accuracy:	0.7708
	211/800 [===================================] -	0s	4ms/step	-	loss:	0.4435 -	accuracy:	0.7795	- val_loss:	0.4753	- val_accuracy:	0.7708
poch 2	212/800 [===================================												
poch 2	213/800									_		_ ′	
poch 2	[=====================================												
	[=====================================] -	0s	4ms/step	-	loss:	0.4434 -	accuracy:	0.7812	- val_loss:	0.4753	- val_accuracy:	0.7708
18/18	[======================================] -	0s	4ms/step	-	loss:	0.4432 -	accuracy:	0.7795	- val_loss:	0.4753	- val_accuracy:	0.7708
8/18	216/800 [============] -	0s	4ms/step	-	loss:	0.4431 -	accuracy:	0.7778	- val_loss:	0.4754	- val_accuracy:	0.7708
	217/800 [========] -	0s	4ms/step	_	loss:	0.4431 -	accuracy:	0.7795	- val_loss:	0.4754	- val_accuracv:	0.7708
poch 2	218/800												
poch 2	[=====================================												
	[=====================================	J -	0s	4ms/step	-	TOSS:	0.4430 -	accuracy:	0.7812	- val_loss:	0.4756	- val_accuracy:	0.7708
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4428 -	accuracy:	0.7795	- val_loss:	0.4756	val_accuracy:	0.7708
8/18	[======================================] -	0s	4ms/step	-	loss:	0.4429 -	accuracy:	0.7795	- val_loss:	0.4757	- val_accuracy:	0.7708
8/18	222/800 [===================================] -	0s	4ms/step	-	loss:	0.4427	accuracy:	0.7778	- val_loss:	0.4757	- val_accuracy:	0.7708
poch 2	223/800 [========												
poch 2	224/800												
poch 2	[=====================================												
	[=====================================	J -	0s	4ms/step	-	TOSS:	0.4426 -	accuracy:	0.7778	- val_loss:	0.4759	- val_accuracy:	0.7656
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4426 -	accuracy:	0.7778	- val_loss:	0.4759	val_accuracy:	0.7656
8/18	[] -	0s	4ms/step	-	loss:	0.4424	accuracy:	0.7778	- val_loss:	0.4760	- val_accuracy:	0.7656
18/18	228/800 [] -	0s	4ms/step	-	loss:	0.4424 -	accuracy:	0.7778	- val_loss:	0.4760	- val_accuracy:	0.7656
	229/800 [========] -	0s	4ms/step	_	loss:	0.4425 -	accuracy:	0.7760	- val_loss:	0.4761	- val_accuracv:	0.7656
poch 2	230/800 [=========												
poch	231/800							-		_			
poch 2	[=====================================							-		_			
18/18] -	0s	4ms/step	-	loss:	0.4422 -	accuracy:	0.7812	- val_loss:	0.4762	val_accuracy:	0.7656
18/18	[======================================] -	0s	4ms/step	-	loss:	0.4421 -	accuracy:	0.7760	- val_loss:	0.4763	- val_accuracy:	0.7656
18/18	234/800 [===================================] -	0s	4ms/step	-	loss:	0.4423	accuracy:	0.7760	- val_loss:	0.4763	- val_accuracy:	0.7656
poch 2	235/800 [========												
poch 2	236/800												
poch 2	[=====================================												
	[=====================================] -	0s	3ms/step	-	loss:	0.4419 -	accuracy:	0.7795	- val_loss:	0.4765	val_accuracy:	0.7656
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4417 -	accuracy:	0.7812	- val_loss:	0.4766	- val_accuracy:	0.7656
8/18	[======================================] -	0s	5ms/step	-	loss:	0.4417 -	accuracy:	0.7778	- val_loss:	0.4766	- val_accuracy:	0.7656
	240/800 [========] -	0s	4ms/step	_	loss:	0.4417 -	accuracy:	0.7795	- val_loss:	0.4767	- val_accuracv:	0.7656
poch 2	241/800 [========												
poch 2	242/800												
poch 2	[=====================================												
8/18	[=====================================] -	0s	6ms/step	-	loss:	0.4416 -	accuracy:	0.7795	- val_loss:	0.4768	- val_accuracy:	0.7656
8/18	[======================================] -	0s	5ms/step	-	loss:	0.4414 -	accuracy:	0.7778	- val_loss:	0.4769	- val_accuracy:	0.7656
8/18	245/800 [===================================] -	0s	6ms/step	-	loss:	0.4413 -	accuracy:	0.7778	- val_loss:	0.4769	- val_accuracy:	0.7656
poch 2	246/800 [========												
poch 2	247/800												
poch 2	[=====================================												
	[=====================================] -	0s	5ms/step	-	loss:	0.4410 -	accuracy:	0.7795	- val_loss:	0.4771	- val_accuracy:	0.7656
8/18	[======================================] -	0s	6ms/step	-	loss:	0.4410 -	accuracy:	0.7830	- val_loss:	0.4771	val_accuracy:	0.7656
8/18	250/800 [==============] -	0s	7ms/step	-	loss:	0.4410 -	accuracy:	0.7812	- val_loss:	0.4771	- val_accuracy:	0.7656
poch 2	251/800 [=======												
poch 2	252/800												
poch	[=====================================							-		_			
	[=====================================] -	0s	5ms/step	-	loss:	0.4409 -	accuracy:	0.7795	- val_loss:	0.4772	val_accuracy:	0.7656
	[============] -	0s	5ms/step	-	loss:	0.4408 -	accuracy:	0.7812	- val_loss:	0.4772	- val_accuracy:	0.7656
													0.7656
poch 1 8/18	255/800 [===================================] -	0s	5ms/step	-	loss:	0.4406 -	accuracy:	0.7795	- val_loss:	0.4772	val_accuracy:	0.7050

	257/800		0-	F (-t	1	0.4406		0 7705		0.4772		0.7656
Epoch	[========] 258/800											
	[========] 259/800	-	0s	5ms/step	- loss:	0.4403 -	accuracy:	0.7812 -	val_loss:	0.4773 -	· val_accuracy:	0.7656
18/18	[]	-	0s	7ms/step	- loss:	0.4404 -	accuracy:	0.7795 -	val_loss:	0.4773 -	val_accuracy:	0.7656
18/18	260/800 [=======]	-	0s	6ms/step	- loss:	0.4404 -	accuracy:	0.7812 -	val_loss:	0.4773 -	val_accuracy:	0.7656
	261/800 []	_	0s	5ms/step	- loss:	0.4403 -	accuracy:	0.7812 -	val_loss:	0.4774	· val_accuracy:	0.7656
	262/800 [=======]	_	۵s	5ms/sten	- loss:	0 4402 -	accuracy:	0 7812 -	val loss:	0 4774 -	val accuracy:	0 7656
Epoch	263/800						-		_			
	[=========] 264/800	-	0s	5ms/step	- loss:	0.4402 -	accuracy:	0.7778 -	val_loss:	0.4774	· val_accuracy:	0.7656
	[=======] 265/800	-	0s	5ms/step	- loss:	0.4402 -	accuracy:	0.7830 -	val_loss:	0.4775	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.4400 -	accuracy:	0.7830 -	val_loss:	0.4775	val_accuracy:	0.7656
	266/800 []	_	0s	5ms/step	- loss:	0.4400 -	accuracy:	0.7812 -	val_loss:	0.4775 -	· val_accuracy:	0.7656
	267/800 [=======]	_	0s	6ms/sten	- loss:	0.4399 -	accuracy:	0.7847 -	val loss:	0.4776	· val accuracy:	0.7656
Epoch	268/800						-		_			
	[========] 269/800	-	0s	6ms/step	- loss:	0.4399 -	accuracy:	0.7830 -	· val_loss:	0.4776 -	· val_accuracy:	0.7656
	[=======] 270/800	-	0s	7ms/step	- loss:	0.4399 -	accuracy:	0.7830 -	val_loss:	0.4777 -	val_accuracy:	0.7656
18/18	[]	-	0s	6ms/step	- loss:	0.4397 -	accuracy:	0.7795 -	val_loss:	0.4777 -	val_accuracy:	0.7656
	271/800 [========]	-	0s	7ms/step	- loss:	0.4398 -	accuracy:	0.7795 -	val_loss:	0.4777	val_accuracy:	0.7656
	272/800 [========]	_	9s	6ms/sten	- loss:	0.4397 -	accuracy:	0.7812 -	val loss:	0.4778 -	· val accuracy:	0.7656
Epoch	273/800						-		_			
	[=======] 274/800	-	05	Sms/step	- 1055:	0.4395 -	accuracy:	0.7812 -	· vai_ioss:	0.4//9	· vai_accuracy:	0.7656
	[=======] 275/800	-	0s	6ms/step	- loss:	0.4395 -	accuracy:	0.7830 -	val_loss:	0.4779	val_accuracy:	0.7656
18/18	[]	-	0s	6ms/step	- loss:	0.4394 -	accuracy:	0.7830 -	val_loss:	0.4780	val_accuracy:	0.7656
18/18	276/800 [=======]	-	0s	5ms/step	- loss:	0.4394 -	accuracy:	0.7812 -	val_loss:	0.4781	val_accuracy:	0.7656
Epoch	277/800 [======]											
Epoch	278/800											
Epoch	[========] 279/800						-		_			
	[=======] 280/800	-	0s	6ms/step	- loss:	0.4393 -	accuracy:	0.7847 -	val_loss:	0.4782 -	val_accuracy:	0.7656
18/18	[]	-	0s	7ms/step	- loss:	0.4393 -	accuracy:	0.7830 -	val_loss:	0.4783 -	val_accuracy:	0.7656
	281/800 [=========]	-	0s	6ms/step	- loss:	0.4391 -	accuracy:	0.7830 -	val_loss:	0.4783 -	val_accuracy:	0.7656
	282/800 []	_	۵s	Ams/sten	- loss:	0 4392 -	accuracy:	0 7847 -	val loss:	0 4783 -	val accuracy:	0 7656
Epoch	283/800											
	[========] 284/800	-	05	4ms/step	- 1055:	0.4391 -	accuracy:	0.7812 -	· vai_ioss:	0.4/84	· vai_accuracy:	0./656
	[=======] 285/800	-	0s	5ms/step	- loss:	0.4392 -	accuracy:	0.7795 -	val_loss:	0.4784	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4391 -	accuracy:	0.7812 -	val_loss:	0.4785	val_accuracy:	0.7656
	286/800 [========]	-	0s	4ms/step	- loss:	0.4389 -	accuracy:	0.7847 -	val_loss:	0.4785	val_accuracy:	0.7656
	287/800 [=======]	_	0s	4ms/sten	- loss:	0.4389 -	accuracy:	0.7830 -	val loss:	0.4784	· val accuracy:	0.7656
Epoch	288/800						-		_			
	[========] 289/800	-	ØS	4ms/step	- loss:	0.4389 -	accuracy:	0.7812 -	· val_loss:	0.4/85	· val_accuracy:	0.7656
	[=======] 290/800	-	0s	5ms/step	- loss:	0.4388 -	accuracy:	0.7795 -	val_loss:	0.4785 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4388 -	accuracy:	0.7812 -	val_loss:	0.4786	val_accuracy:	0.7656
	291/800 [========]	-	0s	4ms/step	- loss:	0.4388 -	accuracy:	0.7812 -	val_loss:	0.4785	val_accuracy:	0.7656
	292/800 [=======]	_	9s	4ms/sten	- loss:	0.4386 -	accuracy:	0.7830 -	val loss:	0.4786	· val_accuracy:	0.7656
Epoch	293/800											
Epoch	[=======] 294/800											
	[=======] 295/800	-	0s	4ms/step	- loss:	0.4385 -	accuracy:	0.7778 -	val_loss:	0.4786 -	· val_accuracy:	0.7656
	[========] 296/800	-	0s	5ms/step	- loss:	0.4386 -	accuracy:	0.7795 -	val_loss:	0.4787 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.4384 -	accuracy:	0.7812 -	val_loss:	0.4788 -	val_accuracy:	0.7656
	297/800 []	_	0s	4ms/step	- loss:	0.4384 -	accuracy:	0.7830 -	val loss:	0.4789 -	· val accuracy:	0.7656
Epoch	298/800 []											
Epoch	299/800											
	[========] 300/800	-	0s	4ms/step	- loss:	0.4383 -	accuracy:	0.7812 -	· val_loss:	0.4790 -	· val_accuracy:	0.7656
18/18	[=======] 301/800	-	0s	4ms/step	- loss:	0.4383 -	accuracy:	0.7795 -	val_loss:	0.4790	· val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4383 -	accuracy:	0.7830 -	val_loss:	0.4790	val_accuracy:	0.7656
	302/800 [========]	-	0s	4ms/step	- loss:	0.4382 -	accuracy:	0.7795 -	val_loss:	0.4789	· val_accuracy:	0.7656
Epoch	303/800						-		_			
Epoch	304/800						,		_			
Epoch	[=======] 305/800						-		_			
	[=======]	-	0s	5ms/step	- loss:	0.4379 -	accuracy:	0.7795 -	val_loss:	0.4787	· val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4380 -	accuracy:	0.7795 -	val_loss:	0.4787 -	val_accuracy:	0.7656
18/18	307/800 [======]	-	0s	4ms/step	- loss:	0.4378 -	accuracy:	0.7795 -	val_loss:	0.4786	· val_accuracy:	0.7656
	308/800	_	0<	4ms/sten	- loss:	0.4378 -	accuracy.	0.7795 -	val loss:	0.4787	· val accuracy:	0.7656
Epoch	309/800											
Epoch	[======] 310/800											
	[=======] 311/800	-	0s	4ms/step	- loss:	0.4377 -	accuracy:	0.7795 -	val_loss:	0.4786 -	· val_accuracy:	0.7708
18/18	[=======] 312/800	-	0s	4ms/step	- loss:	0.4375 -	accuracy:	0.7795 -	val_loss:	0.4786 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4375 -	accuracy:	0.7795 -	val_loss:	0.4786	val_accuracy:	0.7656
	313/800	_	0s	5ms/step	- loss:	0.4374 -	accuracy:	0.7795 -	val_loss:	0.4786	· val_accuracv:	0.7656
Epoch	314/800											
Epoch	[=======] 315/800											
	[=======] 316/800	-	0s	4ms/step	- loss:	0.4373 -	accuracy:	0.7812 -	val_loss:	0.4785	· val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4372 -	accuracy:	0.7778 -	val_loss:	0.4785 -	val_accuracy:	0.7708
18/18	317/800 [======]	-	0s	5ms/step	- loss:	0.4372 -	accuracy:	0.7795 -	val_loss:	0.4785 -	val_accuracy:	0.7708
	318/800	_	0.5	4ms/sten	- loss:	0.4372 -	accuracy	0.7812 -	val loss	0.4785	· val accuracy:	0.7708
Epoch	319/800						-		_			
Epoch	[=======] 320/800											
	[]	-	0s	4ms/step	- loss:	0.4370 -	accuracy:	0.7795 -	val_loss:	0.4784	val_accuracy:	0.7708

	221 (800												
8/18	321/800 [===================================] -	- 09	4ms/step	-	loss:	0.4369	- accuracy:	0.7795	- val_loss:	0.4783	- val_accuracy:	0.7708
	322/800 [===================================] -	- 0s	4ms/step	_	loss:	0.4369	- accuracy:	0.7795	- val_loss:	0.4783	- val_accuracy:	0.7760
poch :	323/800 [========												
poch	324/800												
	[=====================================] -	- 09	5ms/step	-	loss:	0.4367	- accuracy:	0.7812	- val_loss:	0.4784	- val_accuracy:	0.7760
8/18	[=====================================] -	- 09	4ms/step	-	loss:	0.4367	- accuracy:	0.7812	- val_loss:	0.4784	- val_accuracy:	0.7760
8/18	[===========] -	- 09	4ms/step	-	loss:	0.4364	- accuracy:	0.7795	- val_loss:	0.4784	- val_accuracy:	0.7760
	327/800 [========	1 -	- 00	: 4ms/sten	_	loss	0 4364	- accuracy:	0 7795	- val loss:	0 4784	- val accuracy:	0 7760
poch	328/800							-		_			
	[=====================================] -	- 09	4ms/step	-	loss:	0.4363	- accuracy:	0.7795	- val_loss:	0.4785	- val_accuracy:	0.7760
8/18	[=====================================] -	- 0s	4ms/step	-	loss:	0.4363	- accuracy:	0.7778	- val_loss:	0.4786	- val_accuracy:	0.7760
18/18	[] -	- 0s	4ms/step	-	loss:	0.4362	- accuracy:	0.7795	- val_loss:	0.4786	- val_accuracy:	0.7760
	331/800 [1 -	- 0s	4ms/step	_	loss:	0.4361	- accuracv:	0.7812	- val loss:	0.4786	- val accuracy:	0.7760
poch	332/800												
	[=====================================] -	- 05	5ms/step	-	1055:	0.4361	- accuracy:	0.7778	- vai_ioss:	0.4/86	- vai_accuracy:	0.7760
	[====================================] -	- 09	4ms/step	-	loss:	0.4360	- accuracy:	0.7812	- val_loss:	0.4786	- val_accuracy:	0.7760
8/18	[] -	- 09	4ms/step	-	loss:	0.4362	- accuracy:	0.7795	- val_loss:	0.4787	- val_accuracy:	0.7760
	335/800 [===================================] -	- 09	4ms/step	-	loss:	0.4359	- accuracy:	0.7812	- val_loss:	0.4788	- val_accuracy:	0.7760
	336/800 [========	1 -	. 00	5mc/stan	_	1000	0 4358	accuracy:	0 7795	- val loss:	0 1788	- val accuracy:	0 7760
poch	337/800												
	[=====================================] -	- 09	4ms/step	-	loss:	0.4356	- accuracy:	0.7830	- val_loss:	0.4789	- val_accuracy:	0.7760
8/18	[=====================================] -	- 09	4ms/step	-	loss:	0.4356	- accuracy:	0.7830	- val_loss:	0.4790	- val_accuracy:	0.7760
8/18	[] -	- 09	5ms/step	-	loss:	0.4356	- accuracy:	0.7812	- val_loss:	0.4791	- val_accuracy:	0.7760
	340/800 [=======	1 -	- 0<	4ms/sten	_	loss:	0.4355	- accuracy:	0.7812	- val loss:	0.4792	- val accuracy	0.7760
poch	341/800							-		_			
poch	[=====================================							-		_			
	[=====================================] -	- 09	5ms/step	-	loss:	0.4353	- accuracy:	0.7812	- val_loss:	0.4792	- val_accuracy:	0.7760
8/18	[] -	- 0s	5ms/step	-	loss:	0.4352	- accuracy:	0.7795	- val_loss:	0.4793	- val_accuracy:	0.7760
	344/800 [===================================] -	- 09	4ms/step	-	loss:	0.4353	- accuracy:	0.7830	- val_loss:	0.4793	- val_accuracy:	0.7760
poch	345/800 [========												
poch	346/800												
	[====================================	J -	- 09	4ms/step	-	loss:	0.4351	- accuracy:	0.7812	- val_loss:	0.4794	- val_accuracy:	0.7760
8/18	[======================================] -	- 0s	4ms/step	-	loss:	0.4351	- accuracy:	0.7795	- val_loss:	0.4794	- val_accuracy:	0.7760
8/18	348/800 [===================================] -	- 0s	4ms/step	-	loss:	0.4350	- accuracy:	0.7812	- val_loss:	0.4795	- val_accuracy:	0.7760
	349/800 [=========] -	- 0.9	4ms/sten	_	loss:	0.4348	- accuracv:	0.7812	- val loss:	0.4796	- val_accuracv	0.7760
poch	350/800												
poch :	[=====================================												
8/18	[=====================================] -	- 09	4ms/step	-	loss:	0.4348	- accuracy:	0.7812	- val_loss:	0.4797	- val_accuracy:	0.7760
8/18	[======================================] -	- 09	4ms/step	-	loss:	0.4347	- accuracy:	0.7812	- val_loss:	0.4797	- val_accuracy:	0.7760
	353/800 [===================================] -	- 0s	4ms/step	-	loss:	0.4345	- accuracy:	0.7812	- val_loss:	0.4798	- val_accuracy:	0.7760
poch	354/800 [=========												
poch	355/800							-		_			
	[=====================================	J -	- 09	4ms/step	-	loss:	0.4345	- accuracy:	0.7830	- val_loss:	0.4799	- val_accuracy:	0.7760
	[=====================================] -	- 05	5ms/step	-	loss:	0.4343	- accuracy:	0.7812	- val_loss:	0.4799	- val_accuracy:	0.7760
18/18	[] -	- 0s	4ms/step	-	loss:	0.4343	- accuracy:	0.7812	- val_loss:	0.4799	- val_accuracy:	0.7708
	358/800 [===================================] -	- 09	5ms/step	-	loss:	0.4342	- accuracy:	0.7812	- val_loss:	0.4799	- val_accuracy:	0.7708
	359/800 [=======	1 -	. 00	/ms/stan	_	1000	0 4342	accuracy:	0 7830	- val loss:	0 1800	- val accuracy:	0 7760
poch	360/800							-		_			
	[=====================================] -	- 0s	4ms/step	-	loss:	0.4341	- accuracy:	0.7830	- val_loss:	0.4801	- val_accuracy:	0.7708
8/18	[=====================================] -	- 09	4ms/step	-	loss:	0.4340	- accuracy:	0.7830	- val_loss:	0.4801	- val_accuracy:	0.7708
8/18	[======================================] -	- 09	4ms/step	-	loss:	0.4341	- accuracy:	0.7812	- val_loss:	0.4801	- val_accuracy:	0.7708
	363/800 [=========] -	- 0.9	5ms/sten	_	loss:	0.4339	- accuracv:	0.7812	- val loss:	0.4802	- val_accuracv	0.7760
poch	364/800												
poch :	[=====================================							-		_			
	[=====================================] -	- 0s	4ms/step	-	loss:	0.4339	- accuracy:	0.7812	- val_loss:	0.4803	- val_accuracy:	0.7760
8/18	[=====================================] -	- 05	4ms/step	-	loss:	0.4339	accuracy:	0.7812	- val_loss:	0.4803	- val_accuracy:	0.7708
8/18	[======================================] -	- 09	4ms/step	-	loss:	0.4336	- accuracy:	0.7812	- val_loss:	0.4804	- val_accuracy:	0.7708
	368/800 [========	1 -	- 0<	5ms/sten	_	loss:	0.4336	- accuracy:	0.7830	- val loss:	0.4805	- val accuracy	0.7708
poch	369/800												
poch	[=====================================												
	[=====================================] -	- 0s	4ms/step	-	loss:	0.4334	- accuracy:	0.7847	- val_loss:	0.4806	- val_accuracy:	0.7708
8/18	[======================================] -	- 05	4ms/step	-	loss:	0.4334	accuracy:	0.7812	- val_loss:	0.4807	- val_accuracy:	0.7760
8/18	372/800 [===================================] -	- 09	4ms/step	-	loss:	0.4333	- accuracy:	0.7830	- val_loss:	0.4808	- val_accuracy:	0.7760
poch	373/800 [========												
poch	374/800												
poch	[=====================================							-		_			
8/18	[=====================================] -	- 09	4ms/step	-	loss:	0.4331	- accuracy:	0.7865	- val_loss:	0.4810	- val_accuracy:	0.7760
8/18	[======================================] -	- 0s	5ms/step	-	loss:	0.4331	- accuracy:	0.7847	- val_loss:	0.4811	- val_accuracy:	0.7760
	377/800 [===================================] -	- 09	4ms/step	_	loss:	0.4330	- accuracy:	0.7865	- val_loss:	0.4811	- val_accuracv:	0.7760
poch	378/800												
poch	[=====================================												
8/18	[=====================================] -	- 09	4ms/step	-	loss:	0.4328	- accuracy:	0.7882	- val_loss:	0.4813	- val_accuracy:	0.7760
8/18	[======================================] -	- 09	5ms/step	-	loss:	0.4329	- accuracy:	0.7865	- val_loss:	0.4813	- val_accuracy:	0.7760
noch '	381/800 [===================================] -	- 0s	4ms/step	-	loss:	0.4328	- accuracy:	0.7865	- val_loss:	0.4814	- val_accuracy:	0.7760
	382/800												
8/18 poch	[======================================			, , , , , , , , , , , , , , , , , , , 	-	1022:	J.+32/	accuracy:	0./000	A01_1022;	0.4010	var_accuracy:	0.7700
8/18 poch 8/18 poch	[======================================												
8/18 poch 8/18 poch 8/18				4ms/step	-	loss:	0.4327	- accuracy:	0.7882	- val_loss:	0.4816	- val_accuracy:	0.7760

poch 386,8 18 [=== poch 387,8 18 [== poch 397,8 18 [== poch 497,8	// 800		9s 9	Sms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 5ms/step 4ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step		loss:	0.4324 - 0.4324 - 0.4324 - 0.4323 - 0.4322 - 0.4321 -	accuracy:	0.7882 0.7882 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865	- val_loss:	0.4817 0.4818 0.4819 0.4819 0.4820 0.4821 0.4822 0.4823 0.4823 0.4823 0.4823	- val_accuracy:	0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760
8/18 [===poch 8/78] 8/18 [===poch 388,8/18 [===poch 390,8/18 [===poch 390,8/18 [===poch 390,8/18 [===poch 390,8/18 [===poch 390,8/18 [===poch 391,8/18 [===poch 391,8/18 [===poch 391,8/18 [==poch 392,8/18 [==poch 393,8/18 [==poch 394,8/18 [==poch 395,8/18 [==poch 396,8/18 [==poch 496,8/18 [==poch 496,8/18 [==poch 496,8/18 [==poch 496,8/18 [==poch 496,8/18 [==poch 497,8/18 [==poch 497,8/18 [==poch 497,8/18 [==poch 497,8/18 [==poch 497,8/18 [==poch 497,8/18 [==poch 498,8/18 [==poch 498,8/18 [==poch 497,8/18 [=poch 497,8	// 8800		9s 9	Ams/step 5ms/step 4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step		doss: doss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4324 - 0.4324 - 0.4323 - 0.4322 - 0.4321 - 0.4321 - 0.4321 - 0.4320 - 0.4320 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865	- val_loss:	0.4818 · 0.4819 · 0.4819 · 0.4820 · 0.4821 · 0.4822 · 0.4823 · 0.4823 · 0.4823 · 0.4823 · 0.4823 · 0.4824 · 0.4	- val_accuracy:	0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760
poch 387,8 8/18 [=== poch 388,8/18 [=== poch 388,8/18 [=== poch 391,8/18 [=== poch 391,8/18 [=== poch 391,8/18 [=== poch 392,8/18 [=== poch 393,8/18 [=== poch 394,8/18 [=== poch 394,8/18 [=== poch 396,8/18 [=== poch 396,8/18 [=== poch 397,8/18 [=== poch 397,8/18 [=== poch 397,8/18 [=== poch 398,8/18 [=== poch 404,8/18 [=== poch 405,8/18 [=== poch 406,8/18 [=== poch 407,8/18 [=== poch 408,8/18 [=== poch 409,8/18 [=== poch 409,8/18 [=== poch 409,8/18 [=== poch 409,8/18 [=== poch 410,8/18 [== poch 410,9/18 [== poch 4	// 880		9s 9	Ams/step 5ms/step 4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step		doss: doss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4324 - 0.4324 - 0.4323 - 0.4322 - 0.4321 - 0.4321 - 0.4321 - 0.4320 - 0.4320 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865	- val_loss:	0.4818 · 0.4819 · 0.4819 · 0.4820 · 0.4821 · 0.4822 · 0.4823 · 0.4823 · 0.4823 · 0.4823 · 0.4823 · 0.4824 · 0.4	- val_accuracy:	0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760
poch 388,8 [=== poch 389,8 [18 [=== poch 389,8 [18 [=== poch 389,8 [=== poch 390,8 [18 [=== poch 391,8 [=== poch 491,8 [== poch 491,8 [=== poch 491,8 [== poch 491,8 [= poch 491,9 [= poch 49	// 800		9s 9s 9s 9s 9s 9s 9s 9s	Sms/step 5ms/step 4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 5ms/step 5ms/step 5ms/step 5ms/step		loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4324 - 0.4323 - 0.4322 - 0.4321 - 0.4321 - 0.4321 - 0.4320 - 0.4320 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 0.7865 0.7865 0.7865 0.7865 0.7882 0.7865 0.7865 0.7885	- val_loss:	0.4818 0.4819 0.4819 0.4820 0.4821 0.4822 0.4823 0.4823 0.4823 0.4823	- val_accuracy:	0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760
poch 389,8 [seepoch 390,8 [seepoch 390,8 [seepoch 391,8 [seepoch 391,8 [seepoch 391,8 [seepoch 393,8 [seepoch 393,8 [seepoch 393,8 [seepoch 394,8 [seepoch 395,8 [seepoch 395,8 [seepoch 396,8 [seepoch 3	//880 //880 //880 //880 //880 //880 //880 //880 //880 //880 //880 //880 //880 //880 //880		9s 9s 9s 9s 9s 9s 9s 9s	5ms/step 4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 4ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step		loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4323 - 0.4322 - 0.4321 - 0.4321 - 0.4321 - 0.4320 - 0.4320 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7865 0.7865 0.7865 0.7865 0.7865 0.7865 0.7865 0.7882	- val_loss:	0.4819 0.4819 0.4820 0.4821 0.4822 0.4823 0.4823 0.4823 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824 0.4824	- val_accuracy:	0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760
8/18 [=== poch 390, 8/18 [=== poch 391, 8/18 [=== poch 391, 8/18 [=== poch 392, 8/18 [=== poch 393, 8/18 [=== poch 393, 8/18 [=== poch 395, 8/18 [=== poch 396, 8/18 [=== poch 396, 8/18 [=== poch 397, 8/18 [=== poch 397, 8/18 [=== poch 398, 8/18 [=== poch 404, 8/18 [=== poch 404, 8/18 [=== poch 404, 8/18 [=== poch 405, 8/18 [=== poch 404, 8/18 [=== poch 404, 8/18 [=== poch 404, 8/18 [=== poch 404, 8/18 [=== poch 405, 8/18 [=== poch 406, 8/18 [=== poch 407, 8/18 [=== poch 408, 8/18 [=== poch 409, 8/18 [=== poch 410, 8/18 [== poch 410, 8/18 [=	//800	- - - - - - - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 4ms/step 5ms/step 5ms/step 5ms/step 5ms/step		lloss: lloss: lloss: lloss: lloss: lloss: lloss: lloss:	0.4323 - 0.4322 - 0.4321 - 0.4321 - 0.4321 - 0.4320 - 0.4320 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7865 0.7865 0.7865 0.7882 0.7865 0.7865 0.7865	- val_loss:	0.4819	- val_accuracy:	0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760 0.7760
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"8/18 [=== poch 392, 8/18 [=== poch 393, 8/18 [=== poch 393, 8/18 [=== poch 396, 8/18 [=== poch 396, 8/18 [=== poch 396, 8/18 [=== poch 398, 8/18 [=== poch 404, 8/18 [=== poch 408, 8/18 [=== poch 409, 8/18 [=== poch 409, 8/18 [=== poch 409, 8/18 [===	/880	- - - - - - - - - -	0s	4ms/step 5ms/step 4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 5ms/step 5ms/step	- : - : - : - : - : - : - : - : - : - :	loss: loss: loss: loss: loss: loss: loss:	0.4321 - 0.4321 - 0.4321 - 0.4320 - 0.4320 - 0.4319 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.7865 0.7882 0.7865 0.7865 0.7865 0.7882	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.4821 · 0.4822 · 0.4823 · 0.4823 · 0.4823 · 0.4824 · 0.4	- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:	0.7760 0.7760 0.7760 0.7760 0.7760 0.7760
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poch 393,8/18 [=== poch 394,8/18 [== poch 397,8/18 [== poch 398,8/18 [== poch 397,8/18 [== poch 400,8/18 [== poch 400,8/18 [== poch 401,8/18 [== poch 408,8/18 [== poch 408,8/18 [== poch 408,8/18 [== poch 408,8/18 [== poch 409,8/18 [== poch 408,8/18 [== poch 409,8/18 [== poch 409,8/18 [== poch 410,8/18 [== poch 410,8/18 [== poch 411,8/18 [= poch 411,8/18 [== poch 411,8/18 [== poch 411,8/18 [== poch 411,8/18 [= poch 41	//800] - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 5ms/step 5ms/step		loss: loss: loss: loss: loss: loss:	0.4321 - 0.4321 - 0.4320 - 0.4320 - 0.4319 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.7882 0.7865 0.7865 0.7865 0.7882	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.4823 · 0.4823 · 0.4823 · 0.4824 · 0.4824 ·	<pre>- val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy: - val_accuracy:</pre>	0.7760 0.7760 0.7760 0.7760 0.7760 0.7760
poch 394,8 8/18 [=== poch 395,8 8/18 [=== poch 395,8 8/18 [=== poch 396,8 8/18 [=== poch 398,8 8/18 [=== poch 400,8 8/18 [=== poch 400,8 8/18 [=== poch 400,8 8/18 [=== poch 404,8 8/18 [=== poch 408,8 8/18 [=== poch 408,8 8/18 [=== poch 409,8 8/18 [=== poch 409,8 8/18 [=== poch 410,8 8/18 [=== poch 410,8 8/18 [=== poch 411,8 8/18 [=== poch 411,9 8/18 [== poch 411,9 8/18 [= poch	/880] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 4ms/step 5ms/step 5ms/step	-: -: -: -:	loss: loss: loss: loss: loss:	0.4321 - 0.4320 - 0.4320 - 0.4319 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy:	0.7865 0.7865 0.7865 0.7882	- val_loss: - val_loss: - val_loss: - val_loss:	0.4823 · 0.4823 · 0.4823 · 0.4824 · 0.4	val_accuracy:val_accuracy:val_accuracy:val_accuracy:	0.7760 0.7760 0.7760 0.7760 0.7760
poch 395,8 8/18 [=== poch 396,8 8/18 [=== poch 396,8 8/18 [=== poch 399,8 8/18 [=== poch 400,8 8/18 [=== poch 401,8 8/18 [=== poch 401,8 8/18 [=== poch 401,8 8/18 [=== poch 404,8 8/18 [=== poch 405,8 8/18 [=== poch 405,8 8/18 [=== poch 406,8 8/18 [=== poch 407,8 8/18 [=== poch 408,8 8/18 [=== poch 408,8 8/18 [=== poch 408,8 8/18 [=== poch 408,8 8/18 [=== poch 409,8 8/18 [=== poch 409,8 8/18 [=== poch 410,8 8/18 [=== poch 410,8 8/18 [=== poch 410,8 8/18 [=== poch 410,8 8/18 [=== poch 410,9 8/18 [== poch 410,9 8/18 [= poch 410,9 8/1	//800] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	4ms/step 4ms/step 5ms/step 4ms/step 4ms/step 5ms/step 5ms/step	-:	loss: loss: loss: loss: loss:	0.4320 - 0.4320 - 0.4319 - 0.4317 -	accuracy: accuracy: accuracy: accuracy:	0.7865 0.7865 0.7882	- val_loss: - val_loss: - val_loss:	0.4823 · 0.4823 · 0.4824 ·	val_accuracy:val_accuracy:val_accuracy:	0.7760 0.7760 0.7760 0.7760
8/18 [=== poch 396, 8/18 [=== poch 397, 8/18 [=== poch 397, 8/18 [=== poch 398, 8/18 [=== poch 496, 8/18 [== poch 496, 8/18 [== poch 496, 8/18 [== poch 496, 8/18 [== poch 497, 8/18 [== poch 498, 8/18 [== poch 498, 8/18 [== poch 499, 8/18 [== poch 410, 8/18 [== poch 410, 8/18 [== poch 411, 8/18 [= poch 411, 8/18	//800	- - - - -	0s 0s 0s 0s 0s	4ms/step 5ms/step 4ms/step 4ms/step 5ms/step 5ms/step	- : - : - :	loss: loss: loss: loss:	0.4320 - 0.4319 - 0.4319 - 0.4317 -	accuracy: accuracy:	0.7865 0.7882	- val_loss:	0.4823 0.4824	val_accuracy:val_accuracy:	0.7760 0.7760 0.7760
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poch 398,8 /18 [=== poch 399,8 /18 [=== poch 399,8 /18 [=== poch 400,8 /18 [=== poch 401,8 /18 [=== poch 401,8 /18 [=== poch 404,8 /18 [=== poch 405,8 /18 [=== poch 406,8 /18 [=== poch 409,8 /18 [=== poch 410,8 /18 [=== poch 410,8 /18 [=== poch 411,8 /18 [== poch 411,8 /18 [== poch 410,8 /18 [= poch 410,8 /18 [== poch 410,8	//800] -] -] -] -	0s 0s 0s 0s 0s	4ms/step 4ms/step 4ms/step 5ms/step 5ms/step	- :	loss: loss: loss:	0.4319 - 0.4317 -	accuracy:		_			0.7760
poch 399, 8/18 [=== poch 400, 8/18 [==== poch 401, 8/18 [==== poch 402, 8/18 [==== poch 403, 8/18 [==== poch 405, 8/18 [==== poch 406, 8/18 [==== poch 406, 8/18 [==== poch 407, 8/18 [==== poch 408, 8/18 [==== poch 408, 8/18 [==== poch 408, 8/18 [==== poch 407, 8/18 [==== poch 408, 8/18 [==== poch 408, 8/18 [==== poch 408, 8/18 [==== poch 408, 8/18 [==== poch 410, 8/18 [==== poch 410, 8/18 [====	//800] -] -] -	0s 0s 0s 0s	4ms/step 4ms/step 5ms/step 5ms/step	- :	loss:	0.4317 -		0.7002	- AgT_1022:	0.4625	- vai_accuracy:	
poch 400,8/18 [=== poch 401,8/18 [=== poch 401,8/18 [=== poch 402,8/18 [=== poch 403,8/18 [=== poch 404,8/18 [=== poch 405,8/18 [=== poch 406,8/18 [=== poch 407,8/18 [=== poch 407,8/18 [=== poch 408,8/18 [=== poch 408,8/18 [=== poch 408,8/18 [=== poch 410,8/18 [=== poch 410,8/18 [=== poch 411,8/18 [===	//800] -] -] -	0s 0s 0s	4ms/step 5ms/step 5ms/step	- : - :	loss:		accuracy:					0 7760
8/18 [==:poch 401, 8/18 [==:poch 402, 8/18 [==:poch 402, 8/18 [==:poch 404, 8/18 [==:poch 404, 8/18 [==:poch 405, 8/18 [==:poch 405, 8/18 [==:poch 407, 8/18 [==:poch 408, 8/18 [==:poch 408, 8/18 [==:poch 408, 8/18 [==:poch 408, 8/18 [==:poch 409, 8/18 [==:poch 409, 8/18 [==:poch 410, 8/18 [==:poch 411, 8/18 [==:poch 411, 8/18 [==:poch 412,	/880] -] -] -	0s 0s 0s	5ms/step 5ms/step	- :		0.4317 -		0.7882	- val_loss:	0.4825	- val_accuracy:	0.//00
8/18 [=== poch 402, 8/18 [=== poch 403, 8/18 [=== poch 404, 8/18 [=== poch 405, 8/18 [=== poch 406, 8/18 [=== poch 406, 8/18 [=== poch 408, 8/18 [=== poch 408, 8/18 [=== poch 408, 8/18 [=== poch 410, 8/18 [=== poch 411, 8/18 [===	//800] -	0s 0s	5ms/step		loss:		accuracy:	0.7882	- val_loss:	0.4826	val_accuracy:	0.7760
"8/18 [=== poch 403, 8/18 [=== poch 404, 8/18 [=== poch 404, 8/18 [=== poch 406, 8/18 [=== poch 406, 8/18 [=== poch 407, 8/18 [=== poch 408, 8/18 [=== poch 409, 8/18 [=== poch 410, 8/18 [=== poch 411, 8/18 [=== poch 411, 8/18 [=== poch 412,	//806] -] -	0s				0.4317 -	accuracy:	0.7882	- val_loss:	0.4826	- val_accuracy:	0.7760
poch 403, 8/18 [=== poch 404, 88/18 [=== poch 405, 8/18 [=== poch 406, 8/18 [=== poch 408, 8/18 [=== poch 408, 8/18 [=== poch 409, 8/18 [=== poch 411, 8/18 [=== poch 411,	/880] -] -	0s			loss:	0.4317 -	accuracy:	0.7882	- val_loss:	0.4826	- val_accuracv:	0.7760
poch 404,8/18 [==: poch 405,8/18 [==: poch 406,8/18 [==: poch 407,8/18 [==: poch 408,8/18 [==: poch 409,8/18 [==: poch 410,8/18 [==: poch 411,8/18 [==: poch 411,8/18 [==: poch 412,8/18	//800] -] -		5ms/sten									
poch 405,8/18 [====================================	//800] -	a-										
8/18 [=== poch 406, 8/18 [=== poch 407, 8/18 [=== poch 408, 8/18 [=== poch 409, 8/18 [=== poch 411, 8/18 [=== poch 411, 8/18 [===								-		_			
8/18 [=== poch 407, 8/18 [=== poch 408, 8/18 [=== poch 409, 8/18 [=== poch 410, 8/18 [=== poch 411, 8/18 [=== poch 412,	.=====================================		0s	7ms/step	- :	loss:	0.4315 -	accuracy:	0.7882	- val_loss:	0.4828	- val_accuracy:	0.7760
8/18 [=== poch 408, 8/18 [=== poch 409, 8/18 [=== poch 410, 8/18 [=== poch 411, 8/18 [=== poch 412,	;] ;/800	-	0s	5ms/step	- :	loss:	0.4313 -	accuracy:	0.7882	- val_loss:	0.4829	- val_accuracy:	0.7760
8/18 [=== poch 409, 8/18 [=== poch 410, 8/18 [=== poch 411, 8/18 [=== poch 412,] -	0s	6ms/step	- :	loss:	0.4314 -	accuracy:	0.7882	- val_loss:	0.4830	- val_accuracy:	0.7760
poch 409, 8/18 [=== poch 410, 8/18 [=== poch 411, 8/18 [=== poch 412,													
poch 410, 8/18 [=== poch 411, 8/18 [=== poch 412,	/800												
poch 411, 8/18 [=== poch 412,													
8/18 [=== poch 412,] /800] -	0s	5ms/step	- :	loss:	0.4311 -	accuracy:	0.7882	- val_loss:	0.4832	val_accuracy:	0.7760
]] -	0s	5ms/step	- :	loss:	0.4311 -	accuracy:	0.7882	- val_loss:	0.4833	<pre>- val_accuracy:</pre>	0.7760
]] -	0s	7ms/step	- :	loss:	0.4310 -	accuracy:	0.7882	- val_loss:	0.4834	- val_accuracy:	0.7708
poch 413, 8/18 [===	:/800 :=======]] -	0s	5ms/step	- :	loss:	0.4311 -	accuracy:	0.7865	- val_loss:	0.4834	- val_accuracy:	0.7760
poch 414,													
poch 415,	/800												
poch 416,													
]] -	0s	6ms/step	- :	loss:	0.4309 -	accuracy:	0.7882	- val_loss:	0.4836	- val_accuracy:	0.7708
8/18 [===]] -	0s	6ms/step	- :	loss:	0.4308 -	accuracy:	0.7882	- val_loss:	0.4837	- val_accuracy:	0.7708
poch 418, 8/18 [===	:/800 :==========]] -	0s	6ms/step	- :	loss:	0.4308 -	accuracy:	0.7882	- val_loss:	0.4837	- val_accuracy:	0.7708
poch 419, 8/18 [===	//800]] -	0.5	7ms/sten		loss:	0.4307 -	accuracy.	0.7882	- val loss:	0.4838	- val accuracy:	0.7708
poch 420,													
poch 421,	/800							-		_			
8/18 [=== poch 422,] /800	-	0s	5ms/step	- :	loss:	0.4306 -	accuracy:	0.7882	- val_loss:	0.4840	- val_accuracy:	0.7708
8/18 [=== poch 423/	; :=========] :/800] -	0s	5ms/step	- :	loss:	0.4306 -	accuracy:	0.7882	- val_loss:	0.4841	val_accuracy:	0.7708
8/18 [===]] -	0s	5ms/step	- :	loss:	0.4305 -	accuracy:	0.7882	- val_loss:	0.4842	- val_accuracy:	0.7708
]] -	0s	8ms/step	- :	loss:	0.4306 -	accuracy:	0.7882	- val_loss:	0.4843	- val_accuracy:	0.7708
poch 425,								-		_			
poch 426,	/800												
poch 427,													
8/18 [=== poch 428/	:] :/800] -	0s	5ms/step	- :	loss:	0.4303 -	accuracy:	0.7882	- val_loss:	0.4845	val_accuracy:	0.7708
]] -	0s	5ms/step	- :	loss:	0.4302 -	accuracy:	0.7882	- val_loss:	0.4845	- val_accuracy:	0.7708
8/18 [===]] -	0s	5ms/step	- :	loss:	0.4302 -	accuracy:	0.7882	- val_loss:	0.4846	- val_accuracy:	0.7708
poch 430, 8/18 [===	1/800]] -	0s	6ms/step	- :	loss:	0.4301 -	accuracy:	0.7882	- val_loss:	0.4846	- val_accuracv:	0.7708
poch 431,								-		_			
poch 432,	/800												
poch 433,													
]] -	0s	6ms/step	- :	loss:	0.4301 -	accuracy:	0.7882	- val_loss:	0.4850	val_accuracy:	0.7708
8/18 [===]] -	0s	6ms/step	- :	loss:	0.4300 -	accuracy:	0.7882	- val_loss:	0.4851	- val_accuracy:	0.7708
]] -	0s	6ms/step	- :	loss:	0.4300 -	accuracy:	0.7882	- val_loss:	0.4853	- val_accuracy:	0.7708
poch 436,													
poch 437,	//800												
poch 438,													
8/18 [=== poch 439/] 1/800] -	0s	5ms/step	- :	loss:	0.4298 -	accuracy:	0.7882	- val_loss:	0.4855	- val_accuracy:	0.7708
8/18 [===	·]] -	0s	5ms/step	- :	loss:	0.4297 -	accuracy:	0.7882	- val_loss:	0.4857	<pre>- val_accuracy:</pre>	0.7708
	·]] -	0s	5ms/step	- :	loss:	0.4298 -	accuracy:	0.7882	- val_loss:	0.4857	- val_accuracy:	0.7708
poch 441, 8/18 [===	./800 :=======]] -	0s	6ms/step	- :	loss:	0.4296 -	accuracy:	0.7882	- val_loss:	0.4858	- val_accuracv:	0.7708
poch 442,	/800												
poch 443,													
8/18 [=== poch 444/] -/800] -	0s	6ms/step	- :	loss:	0.4295 -	accuracy:	0.7882	- val_loss:	0.4860	- val_accuracy:	0.7708
8/18 [===]] -	0s	4ms/step	- :	loss:	0.4295 -	accuracy:	0.7882	- val_loss:	0.4860	- val_accuracy:	0.7708
]] -	0s	4ms/step	- :	loss:	0.4295 -	accuracy:	0.7882	- val_loss:	0.4862	- val_accuracy:	0.7708
poch 446, 8/18 [===	5/800]] -	0s	4ms/sten		loss:	0.4294 -	accuracv:	0.7882	- val_loss:	0.4863	- val_accuracv:	0.7708
poch 447,								-		_			
poch 448,								-		_			

18/18 Epoch 18/18	449/800	1 -	. as	Ame /cton	_	1000									
8/18	450/000		05	4III3/3cep		1055.	0.4293	-	accuracy:	0.7882	val_loss:	0.4866	-	val_accuracy:	0.7708
	[=====================================	1 -	. As	4ms/sten	_	loss:	0.4293	_	accuracy:	0.7899	- val loss:	0.4867	_	val accuracy:	0.7708
	451/800								-		_				
poch	[=====================================								-		_				
	[=====================================] -	0s	4ms/step	-	loss:	0.4292	-	accuracy:	0.7899	- val_loss:	0.4868	-	val_accuracy:	0.7708
8/18	[======================================] -	0s	4ms/step	-	loss:	0.4291	-	accuracy:	0.7882	- val_loss:	0.4869	-	val_accuracy:	0.7708
8/18	[] -	. 0s	4ms/step	-	loss:	0.4291	-	accuracy:	0.7882	- val_loss:	0.4870	-	val_accuracy:	0.7708
	455/800 [========] -	. 0s	4ms/step	_	loss:	0.4291		accuracy:	0.7882	- val_loss:	0.4871	_	val_accuracy:	0.7708
	456/800 [1 -	. ac	Ams/stan	_	1000	0 1290	_	accuracy:	0 7882	- val loss:	0 /871	_	val accuracy:	0 7708
poch	457/800														
	[=====================================	J -	· 0s	5ms/step	-	loss:	0.4290	-	accuracy:	0.7882	- val_loss:	0.48/3	-	val_accuracy:	0.7708
	[=====================================] -	0s	5ms/step	-	loss:	0.4290	-	accuracy:	0.7882	- val_loss:	0.4873	-	val_accuracy:	0.7708
18/18	[] -	0s	4ms/step	-	loss:	0.4289	-	accuracy:	0.7882	- val_loss:	0.4874	-	val_accuracy:	0.7708
18/18	460/800] -	- 0s	5ms/step	-	loss:	0.4290	-	accuracy:	0.7882	- val_loss:	0.4875	-	val_accuracy:	0.7708
	461/800 [1 -	. 0s	4ms/step	_	loss:	0.4288		accuracv:	0.7882	- val loss:	0.4876	_	val accuracy:	0.7708
poch	462/800								-		_				
poch	[=====================================														
	[=====================================] -	· 0s	4ms/step	-	loss:	0.4289	-	accuracy:	0.7865	- val_loss:	0.4877	-	val_accuracy:	0.7708
18/18	[=====================================] -	0s	4ms/step	-	loss:	0.4288	-	accuracy:	0.7882	- val_loss:	0.4878	-	val_accuracy:	0.7708
18/18	[] -	0s	4ms/step	-	loss:	0.4287	-	accuracy:	0.7899	- val_loss:	0.4879	-	val_accuracy:	0.7708
	466/800 [=======] -	- 0s	4ms/step	_	loss:	0.4287	_	accuracy:	0.7882	- val_loss:	0.4880	_	val_accuracy:	0.7708
poch	467/800 [=======														
poch	468/800														
poch	[=====================================								-		_				
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4287	-	accuracy:	0.7899	- val_loss:	0.4881	-	val_accuracy:	0.7708
18/18	[] -	0s	4ms/step	-	loss:	0.4284	-	accuracy:	0.7899	- val_loss:	0.4882	-	val_accuracy:	0.7708
18/18	471/800 [] -	. 0s	5ms/step	-	loss:	0.4284	-	accuracy:	0.7882	- val_loss:	0.4884	-	val_accuracy:	0.7708
poch	472/800 [========														
poch	473/800														
poch	[=====================================														
	[=====================================] -	0s	4ms/step	-	loss:	0.4284	-	accuracy:	0.7882	- val_loss:	0.4884	-	val_accuracy:	0.7708
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4282	-	accuracy:	0.7882	- val_loss:	0.4885	-	val_accuracy:	0.7708
18/18	[] -	- 0s	4ms/step	-	loss:	0.4282	-	accuracy:	0.7882	- val_loss:	0.4884	-	val_accuracy:	0.7708
	477/800 [===================================] -	- 0s	5ms/step	_	loss:	0.4282	_	accuracy:	0.7899	- val_loss:	0.4885	_	val_accuracy:	0.7708
poch	478/800 [=======														
poch	479/800								-		_				
poch	[=====================================														
8/18	[=====================================] -	0s	5ms/step	-	loss:	0.4281	-	accuracy:	0.7899	- val_loss:	0.4887	-	val_accuracy:	0.7708
8/18	[] -	0s	5ms/step	-	loss:	0.4280	-	accuracy:	0.7882	- val_loss:	0.4889	-	val_accuracy:	0.7708
	482/800 [===================================] -	. 0s	4ms/step	-	loss:	0.4280	-	accuracy:	0.7882	- val_loss:	0.4888	-	val_accuracy:	0.7708
poch	483/800 [=======														
poch	484/800														
poch	[=====================================								-		_				
	[=====================================	- ا	0s	5ms/step	-	loss:	0.4279	-	accuracy:	0.7899	- val_loss:	0.4889	-	val_accuracy:	0.7708
	[======================================] -	0s	4ms/step	-	loss:	0.4279	-	accuracy:	0.7899	- val_loss:	0.4891	-	val_accuracy:	0.7708
18/18	[] -	- 0s	4ms/step	-	loss:	0.4279	-	accuracy:	0.7882	- val_loss:	0.4891	-	val_accuracy:	0.7708
18/18	488/800] -	. 0s	4ms/step	-	loss:	0.4279	-	accuracy:	0.7899	- val_loss:	0.4892	-	val_accuracy:	0.7708
poch	489/800 [=======								-		_				
poch	490/800														
poch	[=====================================								-		_				
	[=====================================] -	0s	5ms/step	-	loss:	0.4278	-	accuracy:	0.7899	- val_loss:	0.4896	-	val_accuracy:	0.7708
18/18	[] -	0s	4ms/step	-	loss:	0.4276	-	accuracy:	0.7882	- val_loss:	0.4897	-	val_accuracy:	0.7708
18/18	493/800] -	0s	5ms/step	-	loss:	0.4276	-	accuracy:	0.7899	- val_loss:	0.4896	-	val_accuracy:	0.7708
	494/800] -	. 0s	4ms/step	_	loss:	0.4276	_	accuracy:	0.7899	- val_loss:	0.4897	_	val_accuracv:	0.7708
poch	495/800 [=======														
poch	496/800														
poch	[=====================================														
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4274	-	accuracy:	0.7882	- val_loss:	0.4899	-	val_accuracy:	0.7708
8/18	[] -	- 0s	5ms/step	-	loss:	0.4273	-	accuracy:	0.7882	- val_loss:	0.4900	-	val_accuracy:	0.7708
8/18	499/800] -	- 0s	4ms/step	-	loss:	0.4273	-	accuracy:	0.7882	- val_loss:	0.4900	-	val_accuracy:	0.7708
poch	500/800														
poch	501/800														
poch	[======================================														
	[======================================] -	0s	4ms/step	-	loss:	0.4273	-	accuracy:	0.7899	- val_loss:	0.4902	-	val_accuracy:	0.7708
8/18	[] -	0s	5ms/step	-	loss:	0.4272	-	accuracy:	0.7899	- val_loss:	0.4902	-	val_accuracy:	0.7708
8/18	504/800] -	0s	4ms/step	-	loss:	0.4271	-	accuracy:	0.7882	- val_loss:	0.4903	-	val_accuracy:	0.7708
	505/800 [=======] -	- 0s	5ms/step	_	loss:	0.4271	_	accuracy:	0.7882	- val_loss:	0.4904	_	val_accuracy:	0.7708
poch	506/800														
poch	[======================================														
	[======================================] -	0s	4ms/step	-	loss:	0.4271	-	accuracy:	0.7882	- val_loss:	0.4906	-	val_accuracy:	0.7708
18/18	[] -	0s	4ms/step	-	loss:	0.4270	-	accuracy:	0.7899	- val_loss:	0.4907	-	val_accuracy:	0.7708
18/18	[] -	0s	4ms/step	-	loss:	0.4270	-	accuracy:	0.7882	- val_loss:	0.4908	-	val_accuracy:	0.7708
	510/800] -	. 0s	4ms/sten	_	loss:	0.4270	_	accuracv:	0.7882	- val loss:	0.4909	_	val_accuracv:	0.7708
poch	511/800								-		_				
poch	512/800								-		_				
18/18 Epoch 18/18 Epoch 18/18 Epoch	510/800 [511/800 [] -	- 0s - 0s	4ms/step 4ms/step	-	loss:	0.4270 0.4269		accuracy:	0.7882 0.7882	- val_loss:	0.4909 0.4909	-	val_accura	icy:

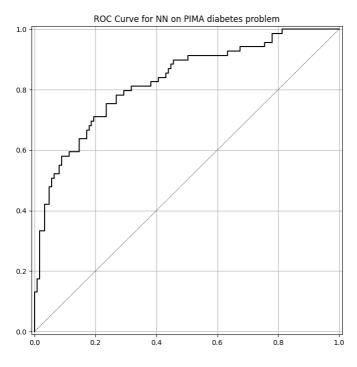
	E12/000													
	513/800 [===================================] -	- 0s	5ms/step	-	loss:	0.4269	- accuracy:	0.7882	- val_loss:	0.4909	- '	val_accuracy:	0.7708
8/18	514/800 [===================================] -	. 0s	4ms/step	-	loss:	0.4267	- accuracy:	0.7882	- val_loss:	0.4908	- '	val_accuracy:	0.7708
	515/800 [===================================] -	. 0s	5ms/step	_	loss:	0.4267	- accuracy:	0.7882	- val_loss:	0.4910		val_accuracy:	0.7708
poch !	516/800 [========							-		_				
poch !	517/800							-		_			_	
	[=====================================] -	· 0s	5ms/step	-	loss:	0.4267	- accuracy:	0.7865	- val_loss:	0.4911	- '	val_accuracy:	0.7708
	[=====================================] -	0s	5ms/step	-	loss:	0.4265	- accuracy:	0.7882	- val_loss:	0.4912	- '	val_accuracy:	0.7708
8/18	[] -	0s	5ms/step	-	loss:	0.4267	- accuracy:	0.7865	- val_loss:	0.4911	- '	val_accuracy:	0.7708
	520/800 [===================================] -	. 0s	4ms/step	_	loss:	0.4265	- accuracy:	0.7865	- val_loss:	0.4912	_ ,	val_accuracy:	0.7708
poch !	521/800 [=======													
poch !	522/800													
	[=====================================	J -	· 0s	4ms/step	-	loss:	0.4263	- accuracy:	0.7865	- val_loss:	0.4914	- '	val_accuracy:	0.7708
	[=====================================] -	0s	5ms/step	-	loss:	0.4264	- accuracy:	0.7865	- val_loss:	0.4914	- '	val_accuracy:	0.7708
18/18	[] -	0s	5ms/step	-	loss:	0.4264	- accuracy:	0.7865	- val_loss:	0.4915	- '	val_accuracy:	0.7708
18/18	525/800 [===================================] -	- 0s	4ms/step	-	loss:	0.4264	- accuracy:	0.7899	- val_loss:	0.4917	- '	val_accuracy:	0.7708
	526/800 [===================================	1 -	. 0s	5ms/step	_	loss:	0.4261	- accuracy:	0.7865	- val loss:	0.4918	_ ,	val accuracy:	0.7708
poch !	527/800 [========													
poch !	528/800													
	[=====================================] -	· 0s	5ms/step	-	loss:	0.4262	- accuracy:	0.7882	- val_loss:	0.4918	- '	val_accuracy:	0.7708
18/18	[=====================================] -	0s	4ms/step	-	loss:	0.4261	- accuracy:	0.7865	- val_loss:	0.4919	- '	val_accuracy:	0.7708
8/18	530/800 [===================================] -	- 0s	5ms/step	-	loss:	0.4260	- accuracy:	0.7865	- val_loss:	0.4918	- '	val_accuracy:	0.7708
	531/800 [===================================] -	. 0s	5ms/step	-	loss:	0.4261	- accuracy:	0.7865	- val_loss:	0.4919	- '	val_accuracy:	0.7708
poch !	532/800 [========													
poch !	533/800							-		_			_	
poch !	[=====================================													
	[=====================================] -	0s	4ms/step	-	loss:	0.4260	- accuracy:	0.7865	- val_loss:	0.4922	- '	val_accuracy:	0.7708
18/18	[======================================] -	0s	4ms/step	-	loss:	0.4259	- accuracy:	0.7865	- val_loss:	0.4923	- '	val_accuracy:	0.7708
8/18	536/800 [=============] -	- 0s	4ms/step	-	loss:	0.4258	- accuracy:	0.7865	- val_loss:	0.4923	- '	val_accuracy:	0.7656
	537/800 [========] -	. 0s	4ms/step	_	loss:	0.4258	- accuracv:	0.7865	- val_loss:	0.4924		val_accuracy:	0.7656
poch !	538/800													
poch !	[=====================================													
	[=====================================	J -	- 0s	4ms/step	-	loss:	0.4257	- accuracy:	0.7865	- val_loss:	0.4926	- '	val_accuracy:	0.7656
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4256	- accuracy:	0.7865	- val_loss:	0.4927	- '	val_accuracy:	0.7656
18/18	[======================================] -	- 0s	4ms/step	-	loss:	0.4257	- accuracy:	0.7882	- val_loss:	0.4927	- '	val_accuracy:	0.7656
8/18	542/800 [===================================] -	- 0s	5ms/step	-	loss:	0.4255	- accuracy:	0.7865	- val_loss:	0.4927		val_accuracy:	0.7656
poch !	543/800 [========							-		_			_	
poch !	544/800													
poch !	[=====================================													
	[=====================================] -	0s	5ms/step	-	loss:	0.4253	- accuracy:	0.7882	- val_loss:	0.4929	- '	val_accuracy:	0.7656
8/18	[=====================================] -	0s	4ms/step	-	loss:	0.4254	- accuracy:	0.7865	- val_loss:	0.4930	- '	val_accuracy:	0.7656
8/18	[======================================] -	0s	5ms/step	-	loss:	0.4253	- accuracy:	0.7865	- val_loss:	0.4931	- '	val_accuracy:	0.7656
8/18	548/800 [=============] -	- 0s	5ms/step	-	loss:	0.4252	- accuracy:	0.7865	- val_loss:	0.4931	- '	val_accuracy:	0.7656
	549/800 [========] -	. 0s	4ms/step	_	loss:	0.4252	- accuracv:	0.7865	- val_loss:	0.4931		val_accuracy:	0.7656
poch !	550/800 [========													
poch !	551/800							-		_			_	
poch !	[=====================================							-		_				
18/18	[=====================================] -	0s	4ms/step	-	loss:	0.4250	- accuracy:	0.7882	- val_loss:	0.4933	- '	val_accuracy:	0.7656
18/18	[======================================] -	0s	5ms/step	-	loss:	0.4251	- accuracy:	0.7882	- val_loss:	0.4935	- '	val_accuracy:	0.7656
18/18	554/800 [===================================] -	- 0s	5ms/step	-	loss:	0.4251	- accuracy:	0.7882	- val_loss:	0.4935		val_accuracy:	0.7656
poch !	555/800 [========													
poch !	556/800													
poch !	[=====================================							-		_			_	
	[=====================================] -	0s	4ms/step	-	loss:	0.4248	- accuracy:	0.7882	- val_loss:	0.4937	- '	val_accuracy:	0.7656
18/18	[========= 559/800] -	0s	4ms/step	-	loss:	0.4247	- accuracy:	0.7882	- val_loss:	0.4937	- '	val_accuracy:	0.7656
8/18	[======================================] -	- 0s	5ms/step	-	loss:	0.4247	- accuracy:	0.7882	- val_loss:	0.4937	- '	val_accuracy:	0.7656
	560/800 [========] -	. 0s	5ms/step	_	loss:	0.4247	- accuracv:	0.7899	- val_loss:	0.4937		val_accuracy:	0.7656
poch !	561/800 [========													
poch !	562/800													
poch !	[=====================================													
8/18	[=====================================] -	0s	5ms/step	-	loss:	0.4246	- accuracy:	0.7882	- val_loss:	0.4939	- '	val_accuracy:	0.7656
8/18	[======================================] -	- 0s	6ms/step	-	loss:	0.4245	- accuracy:	0.7865	- val_loss:	0.4939	- '	val_accuracy:	0.7656
8/18	565/800 [===================================] -	- 0s	7ms/step	-	loss:	0.4246	- accuracy:	0.7899	- val_loss:	0.4939	- '	val_accuracy:	0.7656
poch !	566/800 [========													
poch !	567/800													
poch !	[=====================================													
	[=====================================] -	0s	6ms/step	-	loss:	0.4243	- accuracy:	0.7865	- val_loss:	0.4941	- '	val_accuracy:	0.7656
8/18	[======================================] -	0s	6ms/step	-	loss:	0.4243	- accuracy:	0.7882	- val_loss:	0.4941	- '	val_accuracy:	0.7656
8/18	570/800 [============] -	- 0s	6ms/step	-	loss:	0.4243	- accuracy:	0.7899	- val_loss:	0.4941	- '	val_accuracy:	0.7656
poch !	571/800 [========													
poch !	572/800													
poch !	[=====================================							-		_			_	
	[=====================================] -	0s	9ms/step	-	loss:	0.4240	- accuracy:	0.7882	- val_loss:	0.4943	- '	val_accuracy:	0.7656
	[============] -	0s	7ms/step	-	loss:	0.4241	- accuracy:	0.7882	- val_loss:	0.4943	- '	val_accuracy:	0.7656
						_								0 7656
poch ! 8/18	575/800 [===================================] -	· 0s	6ms/step	-	loss:	0.4238	- accuracy:	0.7899	- vai_ioss:	0.4944	- '	val_accuracy:	017030

	577/800 [=======]		Q.c	Emc/ston	locci	A 4229	accupacy:	a 7900	val loss:	0 4045	val accumacy:	0 7656
Epoch	578/800						-		_			
Epoch	[=====================================											
	[=====================================] -	0s	6ms/step	- loss:	0.4237 -	accuracy:	0.7899 -	val_loss:	0.4946	- val_accuracy:	0.7656
18/18	[=======] 581/800] -	0s	5ms/step	- loss:	0.4237 -	accuracy:	0.7865 -	val_loss:	0.4947	- val_accuracy:	0.7656
18/18	[]] -	0s	5ms/step	- loss:	0.4234 -	accuracy:	0.7899 -	val_loss:	0.4947	- val_accuracy:	0.7656
18/18	582/800 [=========]] -	0s	7ms/step	- loss:	0.4235 -	accuracy:	0.7899 -	val_loss:	0.4948	- val_accuracy:	0.7656
	583/800 [=======]	1 -	0s	6ms/step	- loss:	0.4236 -	accuracy:	0.7882 -	val loss:	0.4948	- val accuracy:	0.7656
Epoch	584/800 [=======]						-		_			
Epoch	585/800						-		_			
	[=====================================	-	0s	6ms/step	- loss:	0.4235 -	accuracy:	0.7882 -	val_loss:	0.4951	- val_accuracy:	0.7656
	[=======] 587/800] -	0s	6ms/step	- loss:	0.4233 -	accuracy:	0.7899 -	val_loss:	0.4952	- val_accuracy:	0.7656
18/18	[=======] 588/800] -	0s	5ms/step	- loss:	0.4233 -	accuracy:	0.7899 -	val_loss:	0.4953	<pre>- val_accuracy:</pre>	0.7656
18/18	[]] -	0s	6ms/step	- loss:	0.4232 -	accuracy:	0.7899 -	val_loss:	0.4954	- val_accuracy:	0.7656
	589/800 [========]] -	0s	9ms/step	- loss:	0.4232 -	accuracy:	0.7899 -	val_loss:	0.4954	- val_accuracy:	0.7656
	590/800	1 -	0s	5ms/step	- loss:	0.4232 -	accuracy:	0.7899 -	val loss:	0.4955	- val accuracv:	0.7656
Epoch	591/800 [======]						-		_			
Epoch	592/800						-		_			
	[=====================================	-	0s	6ms/step	- loss:	0.4231 -	accuracy:	0.7917 -	val_loss:	0.4956	- val_accuracy:	0.7656
	[=======] 594/800] -	0s	7ms/step	- loss:	0.4229 -	accuracy:	0.7917 -	val_loss:	0.4957	- val_accuracy:	0.7656
18/18	[]] -	0s	6ms/step	- loss:	0.4228 -	accuracy:	0.7917 -	val_loss:	0.4958	- val_accuracy:	0.7656
18/18	595/800 []] -	0s	5ms/step	- loss:	0.4228 -	accuracy:	0.7865 -	val_loss:	0.4960	- val_accuracy:	0.7656
18/18	596/800 []] -	0s	6ms/step	- loss:	0.4228 -	accuracy:	0.7899 -	val_loss:	0.4960	- val_accuracy:	0.7656
Epoch	597/800 [======]											
Epoch	598/800 [=======]						-		_			
Epoch	599/800						-		_			
Epoch	[=====================================						-		_			
	[======] 601/800] -	0s	5ms/step	- loss:	0.4227 -	accuracy:	0.7899 -	val_loss:	0.4964	- val_accuracy:	0.7656
18/18	[=======] 602/800] -	0s	5ms/step	- loss:	0.4225 -	accuracy:	0.7899 -	val_loss:	0.4965	<pre>- val_accuracy:</pre>	0.7656
18/18	[]] -	0s	5ms/step	- loss:	0.4225 -	accuracy:	0.7917 -	val_loss:	0.4965	- val_accuracy:	0.7656
	603/800 []] -	0s	5ms/step	- loss:	0.4225 -	accuracy:	0.7899 -	val_loss:	0.4966	- val_accuracy:	0.7656
	604/800	1 -	0s	4ms/step	- loss:	0.4224 -	accuracy:	0.7899 -	val loss:	0.4967	- val accuracy:	0.7656
Epoch	605/800 [======]											
Epoch	606/800											
Epoch	[=====================================						-		_			
	[=====================================	-	0s	4ms/step	- loss:	0.4221 -	accuracy:	0.7899 -	val_loss:	0.4969	- val_accuracy:	0.7656
	[=======]] -	0s	4ms/step	- loss:	0.4223 -	accuracy:	0.7917 -	val_loss:	0.4969	- val_accuracy:	0.7656
18/18	[=======] 610/800] -	0s	4ms/step	- loss:	0.4221 -	accuracy:	0.7917 -	val_loss:	0.4970	- val_accuracy:	0.7656
18/18	[]] -	0s	4ms/step	- loss:	0.4221 -	accuracy:	0.7899 -	val_loss:	0.4971	- val_accuracy:	0.7656
18/18	611/800 [=======]] -	0s	5ms/step	- loss:	0.4221 -	accuracy:	0.7899 -	val_loss:	0.4971	- val_accuracy:	0.7656
	612/800 []] -	0s	5ms/step	- loss:	0.4219 -	accuracy:	0.7899 -	val_loss:	0.4971	- val_accuracy:	0.7656
	613/800	1 -	0s	5ms/step	- loss:	0.4219 -	accuracy:	0.7899 -	val loss:	0.4972	- val accuracv:	0.7656
Epoch	614/800 [======]											
Epoch	615/800						-		_			
Epoch	[=======] 616/800						,		_			
	[========] 617/800] -	0s	5ms/step	- loss:	0.4218 -	accuracy:	0.7899 -	val_loss:	0.4975	- val_accuracy:	0.7656
	[=====================================] -	0s	5ms/step	- loss:	0.4218 -	accuracy:	0.7899 -	val_loss:	0.4976	- val_accuracy:	0.7656
18/18	[=====================================] -	0s	5ms/step	- loss:	0.4217 -	accuracy:	0.7899 -	val_loss:	0.4976	- val_accuracy:	0.7656
18/18	[]] -	0s	5ms/step	- loss:	0.4216 -	accuracy:	0.7917 -	val_loss:	0.4977	- val_accuracy:	0.7656
	620/800 [========]] -	0s	4ms/step	- loss:	0.4216 -	accuracy:	0.7882 -	val_loss:	0.4978	- val_accuracy:	0.7656
	621/800 []] -	0s	4ms/step	- loss:	0.4216 -	accuracy:	0.7882 -	val_loss:	0.4979	- val_accuracy:	0.7656
Epoch	622/800 [=======]											
Epoch	623/800						-		_			
Epoch	[======] 624/800						-		_			
Epoch	[========] 625/800						-		_			
	[=======] 626/800] -	0s	4ms/step	- loss:	0.4214 -	accuracy:	0.7882 -	val_loss:	0.4978	- val_accuracy:	0.7656
18/18	[======] 627/800] -	0s	5ms/step	- loss:	0.4214 -	accuracy:	0.7882 -	val_loss:	0.4979	- val_accuracy:	0.7656
18/18	[]] -	0s	5ms/step	- loss:	0.4212 -	accuracy:	0.7882 -	val_loss:	0.4978	- val_accuracy:	0.7708
18/18	628/800 [=======]] -	0s	4ms/step	- loss:	0.4212 -	accuracy:	0.7899 -	val_loss:	0.4979	- val_accuracy:	0.7708
	629/800 [======]] -	0s	4ms/step	- loss:	0.4212 -	accuracy:	0.7882 -	val_loss:	0.4981	- val_accuracy:	0.7708
Epoch	630/800 [======]											
Epoch	631/800						-		_			
Epoch	[======] 632/800						-		_			
Epoch	[=====================================											
18/18	[======] 634/800] -	0s	4ms/step	- loss:	0.4210 -	accuracy:	0.7865 -	val_loss:	0.4983	- val_accuracy:	0.7708
18/18	[]] -	0s	5ms/step	- loss:	0.4208 -	accuracy:	0.7882 -	val_loss:	0.4984	- val_accuracy:	0.7708
18/18	635/800 [======]] -	0s	4ms/step	- loss:	0.4209 -	accuracy:	0.7865 -	val_loss:	0.4984	- val_accuracy:	0.7708
	636/800 [=======]] -	0s	6ms/step	- loss:	0.4209 -	accuracy:	0.7882 -	val_loss:	0.4985	- val_accuracy:	0.7708
Epoch	637/800 [======]											
Epoch	638/800 [=======]											
Epoch	639/800						-		_			
Epoch	[=====================================						-		_			
	[]] -	0s	5ms/step	- loss:	0.4206 -	accuracy:	0.7847 -	val_loss:	0.4987	- val_accuracy:	0.7708

	641/800		0.0	Ame /eton	10001	0.4205		0 7002	wal lass.	0.4080		0 7700
Epoch	642/800											
Epoch	[=====================================											
	[======] 644/800	-	0s	4ms/step	- loss:	0.4205 -	accuracy:	0.7847 -	val_loss:	0.4988 -	· val_accuracy:	0.7708
18/18	[=======] 645/800	-	0s	5ms/step	- loss:	0.4205 -	accuracy:	0.7882 -	val_loss:	0.4990	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4203 -	accuracy:	0.7882 -	val_loss:	0.4991 -	val_accuracy:	0.7708
18/18	646/800 [========]	-	0s	5ms/step	- loss:	0.4203 -	accuracy:	0.7865 -	val_loss:	0.4991 -	val_accuracy:	0.7708
	647/800 [=======]	_	0s	4ms/step	- loss:	0.4202 -	accuracy:	0.7865 -	val_loss:	0.4990 -	· val_accuracy:	0.7708
	648/800 [======]	_	۵s	7ms/sten	- loss:	a 42a1 -	accuracy:	0 7882 -	val loss:	a 4991 -	- val accuracy:	0 7708
Epoch	649/800						-		_			
Epoch	[=======] 650/800											
	[========] 651/800	-	0s	5ms/step	- loss:	0.4201 -	accuracy:	0.7865 -	val_loss:	0.4991 -	· val_accuracy:	0.7708
	[======] 652/800	-	0s	4ms/step	- loss:	0.4201 -	accuracy:	0.7882 -	val_loss:	0.4992 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4199 -	accuracy:	0.7882 -	val_loss:	0.4994	val_accuracy:	0.7708
18/18	653/800 [======]	-	0s	4ms/step	- loss:	0.4199 -	accuracy:	0.7865 -	val_loss:	0.4993	val_accuracy:	0.7708
	654/800 [=======]	-	0s	4ms/step	- loss:	0.4199 -	accuracy:	0.7865 -	val_loss:	0.4995 -	val_accuracy:	0.7708
	655/800 [=======]	_	0s	4ms/step	- loss:	0.4198 -	accuracy:	0.7882 -	val_loss:	0.4997 -	· val_accuracy:	0.7708
Epoch	656/800 [======]						-		_			
Epoch	657/800						-		_			
Epoch	[=======] 658/800						-		_			
	[=======] 659/800	-	0s	4ms/step	- loss:	0.4197 -	accuracy:	0.7899 -	val_loss:	0.4997 -	val_accuracy:	0.7708
18/18	[=======] 660/800	-	0s	5ms/step	- loss:	0.4197 -	accuracy:	0.7882 -	val_loss:	0.4998 -	val_accuracy:	0.7708
18/18	[======] 661/800	-	0s	6ms/step	- loss:	0.4196 -	accuracy:	0.7899 -	val_loss:	0.4999	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4195 -	accuracy:	0.7882 -	val_loss:	0.4998	val_accuracy:	0.7708
18/18	662/800 [======]	-	0s	4ms/step	- loss:	0.4197 -	accuracy:	0.7899 -	val_loss:	0.4996	· val_accuracy:	0.7708
	663/800 [=======]	-	0s	4ms/step	- loss:	0.4195 -	accuracy:	0.7865 -	val_loss:	0.4997 -	val_accuracy:	0.7708
	664/800 [======]	_	0s	5ms/step	- loss:	0.4193 -	accuracy:	0.7899 -	val loss:	0.4999 -	· val accuracy:	0.7708
Epoch	665/800 [======]											
Epoch	666/800											
Epoch	[=======] 667/800											
Epoch	[======] 668/800											
	[=========] 669/800	-	0s	5ms/step	- loss:	0.4191 -	accuracy:	0.7882 -	val_loss:	0.5001 -	· val_accuracy:	0.7708
	[======] 670/800	-	0s	4ms/step	- loss:	0.4192 -	accuracy:	0.7899 -	val_loss:	0.5000 -	· val_accuracy:	0.7708
18/18	[=======] 671/800	-	0s	4ms/step	- loss:	0.4191 -	accuracy:	0.7899 -	val_loss:	0.5001 -	val_accuracy:	0.7708
18/18	[=======] 672/800	-	0s	5ms/step	- loss:	0.4191 -	accuracy:	0.7882 -	val_loss:	0.5003 -	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4189 -	accuracy:	0.7899 -	val_loss:	0.5003	val_accuracy:	0.7708
18/18	673/800 []	-	0s	4ms/step	- loss:	0.4190 -	accuracy:	0.7899 -	val_loss:	0.5005	val_accuracy:	0.7708
	674/800 []	_	0s	5ms/step	- loss:	0.4189 -	accuracy:	0.7899 -	val_loss:	0.5006 -	· val_accuracy:	0.7708
	675/800 []	_	0s	4ms/step	- loss:	0.4188 -	accuracy:	0.7882 -	val loss:	0.5007 -	· val accuracy:	0.7708
Epoch	676/800 [======]											
Epoch	677/800 [======]											
Epoch	678/800											
Epoch	[=======] 679/800						-		_			
Epoch	[=====================================						-		_			
Epoch	[=========] 681/800						-		_			
	[=======] 682/800	-	0s	4ms/step	- loss:	0.4187 -	accuracy:	0.7899 -	val_loss:	0.5009 -	· val_accuracy:	0.7760
18/18	[=====================================	-	0s	5ms/step	- loss:	0.4184 -	accuracy:	0.7882 -	val_loss:	0.5009	val_accuracy:	0.7760
18/18	[=======] 684/800	-	0s	5ms/step	- loss:	0.4184 -	accuracy:	0.7882 -	val_loss:	0.5010	val_accuracy:	0.7760
18/18	[]	-	0s	5ms/step	- loss:	0.4184 -	accuracy:	0.7882 -	val_loss:	0.5011	val_accuracy:	0.7760
18/18	685/800 [======]	-	0s	4ms/step	- loss:	0.4184 -	accuracy:	0.7882 -	val_loss:	0.5012 -	val_accuracy:	0.7760
18/18	686/800 []	-	0s	5ms/step	- loss:	0.4181 -	accuracy:	0.7882 -	val_loss:	0.5013	· val_accuracy:	0.7760
	687/800 [======]	_	0s	5ms/step	- loss:	0.4180 -	accuracy:	0.7882 -	val_loss:	0.5014	· val_accuracy:	0.7760
Epoch	688/800 [======]						-		_			
Epoch	[=======]						-		_			
Epoch	690/800						-		_			
Epoch	[=======] 691/800											
	[=======] 692/800	-	0s	5ms/step	- loss:	0.4179 -	accuracy:	0.7882 -	val_loss:	0.5018 -	· val_accuracy:	0.7708
18/18	[=====================================	-	0s	4ms/step	- loss:	0.4180 -	accuracy:	0.7865 -	val_loss:	0.5018 -	val_accuracy:	0.7760
18/18	[=======] 694/800	-	0s	4ms/step	- loss:	0.4177 -	accuracy:	0.7882 -	val_loss:	0.5019	val_accuracy:	0.7708
18/18	[======] 695/800	-	0s	5ms/step	- loss:	0.4177 -	accuracy:	0.7882 -	val_loss:	0.5019	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4177 -	accuracy:	0.7899 -	val_loss:	0.5019	val_accuracy:	0.7760
18/18	696/800 [======]	-	0s	5ms/step	- loss:	0.4176 -	accuracy:	0.7865 -	val_loss:	0.5020	val_accuracy:	0.7760
18/18	697/800 [======]	-	0s	5ms/step	- loss:	0.4175 -	accuracy:	0.7882 -	val_loss:	0.5020	· val_accuracy:	0.7708
Epoch	698/800 [======]						-		_			
Epoch	699/800 [=======]											
Epoch	700/800											
Epoch	[======] 701/800						-		_			
Epoch	[========] 702/800											
	[======] 703/800	-	0s	4ms/step	- loss:	0.4172 -	accuracy:	0.7882 -	val_loss:	0.5022	val_accuracy:	0.7708
18/18	[=======] 704/800	-	0s	5ms/step	- loss:	0.4172 -	accuracy:	0.7865 -	val_loss:	0.5023	val_accuracy:	0.7708
	[======]	-	0s	4ms/step	- loss:	0.4171 -	accuracy:	0.7899 -	val_loss:	0.5024 -	· val_accuracy:	0.7708

```
Epoch 705/800
                                           0s 5ms/step - loss: 0.4171 - accuracy: 0.7882 - val_loss: 0.5024 - val_accuracy: 0.7708
18/18 [===
Epoch 706/800
18/18 [===
                                           0s 6ms/step - loss: 0.4169 - accuracy: 0.7899 - val loss: 0.5025 - val accuracy: 0.7708
       707/800
18/18
                                               5ms/step - loss: 0.4169 - accuracy: 0.7882 - val_loss: 0.5027 - val_accuracy: 0.7708
       708/800
18/18 [=====
Epoch 709/800
                                           0s 4ms/step - loss: 0.4168 - accuracy: 0.7865 - val_loss: 0.5027 - val_accuracy: 0.7708
.
18/18 Γ=:
                                           0s 4ms/step - loss: 0.4169 - accuracy: 0.7917 - val loss: 0.5026 - val accuracy: 0.7708
       710/800
 Epoch
18/18
                                               5ms/step - loss: 0.4166 - accuracy: 0.7899 - val loss: 0.5027 - val accuracy: 0.7760
Epoch
       712/800
 18/18
                                               6ms/step - loss: 0.4167 - accuracy: 0.7882 - val loss: 0.5027 - val accuracy: 0.7760
       713/800
 Epoch
18/18
                                                          loss: 0.4165 -
                                                                          accuracy: 0.7899 - val_loss: 0.5028 -
       714/800
                                              6ms/step - loss: 0.4164 - accuracy: 0.7899 - val_loss: 0.5028 - val_accuracy: 0.7760
 18/18 [=
       715/800
Epoch
18/18 F=
                                           0s 8ms/step - loss: 0.4163 - accuracy: 0.7882 - val loss: 0.5025 - val accuracy: 0.7760
       716/800
                                               8ms/step - loss: 0.4165 - accuracy: 0.7865 - val_loss: 0.5026 - val_accuracy: 0.7760
       717/800
Epoch 717
18/18 [==
                                           0s 8ms/step - loss: 0.4163 - accuracy: 0.7882 - val loss: 0.5028 - val accuracy: 0.7760
Epoch 718/800
18/18 [=====
                                              6ms/step - loss: 0.4162 - accuracy: 0.7882 - val loss: 0.5029 - val accuracy: 0.7760
Epoc...
18/18
       719/800
                                                                          accuracy: 0.7865 - val_loss: 0.5030 - val_accuracy: 0.7760
       720/800
Epoch
18/18 [=====
Fnoch 721/800
                                           0s 9ms/step - loss: 0.4162 - accuracy: 0.7899 - val loss: 0.5030 - val accuracy: 0.7760
18/18
                                              6ms/step - loss: 0.4160 - accuracy: 0.7882 - val loss: 0.5032 - val accuracy: 0.7760
       722/800
       723/800
Epoch 723
18/18 [==
                                               5ms/step - loss: 0.4159 - accuracy: 0.7847 - val_loss: 0.5030 - val_accuracy: 0.7760
       724/800
 Epoch
18/18
                                               7ms/step - loss: 0.4158 - accuracy: 0.7847 - val_loss: 0.5031 - val_accuracy: 0.7760
       725/800
                                                         - loss: 0.4157 - accuracy: 0.7882 - val_loss: 0.5033 -
Epoch
       726/800
 18/18 F==
                                           0s 7ms/step - loss: 0.4157 - accuracy: 0.7865 - val loss: 0.5033 - val accuracy: 0.7760
Epoch
       727/800
 18/18
                                           0s 7ms/step - loss: 0.4157 - accuracy: 0.7882 - val loss: 0.5034 - val accuracy: 0.7760
       728/800
                                               7ms/step - loss: 0.4156 - accuracy: 0.7847 - val loss: 0.5033 - val accuracy: 0.7760
       729/800
Epoch
18/18 [==
                                           0s 5ms/step - loss: 0.4156 - accuracy: 0.7882 - val loss: 0.5034 - val accuracy: 0.7760
 Epoch
       730/800
 18/18
                                               5ms/step - loss: 0.4154 - accuracy: 0.7865 - val_loss: 0.5035 - val_accuracy: 0.7760
       .
731/800
                                                 ns/step - loss: 0.4153 - accuracy: 0.7882 - val_loss: 0.5034 - val_accuracy: 0.7760
       732/800
Epoch
18/18 [==
                                           0s 6ms/step - loss: 0.4152 - accuracy: 0.7865 - val loss: 0.5036 - val accuracy: 0.7760
       733/800
18/18
                                               8ms/step - loss: 0.4153 - accuracy: 0.7882 - val loss: 0.5037 - val accuracy: 0.7760
       .
734/800
       735/800
 Epoch
18/18 Γ==
                                              6ms/step - loss: 0.4152 - accuracy: 0.7899 - val loss: 0.5038 - val accuracy: 0.7760
       736/800
 Epoch
                                                          loss: 0.4151 -
                                                                          accuracy: 0.7865 - val_loss: 0.5039 - val_accuracy: 0.7760
       737/800
 Epoch
18/18
                                                         - loss: 0.4151 - accuracy: 0.7865 - val_loss: 0.5041 - val_accuracy: 0.7760
Epoch 738/800
18/18 F==
                                           0s 8ms/step - loss: 0.4150 - accuracy: 0.7865 - val loss: 0.5042 - val accuracy: 0.7760
 Epoch
       739/800
 18/18
                                              7ms/step - loss: 0.4148 - accuracy: 0.7882 - val_loss: 0.5043 - val_accuracy: 0.7760
8ms/step - loss: 0.4148 - accuracy: 0.7865 - val_loss: 0.5042 - val_accuracy: 0.7760
                                              8ms/step - loss: 0.4148 - accuracy: 0.7899 - val loss: 0.5043 - val accuracy: 0.7760
 Epoch
18/18
       742/800
                                               7ms/step - loss: 0.4147 - accuracy: 0.7865 - val_loss: 0.5044 - val_accuracy: 0.7760
       1
743/800
 Epoch
18/18
                                               7ms/step - loss: 0.4145 - accuracy: 0.7882 - val_loss: 0.5045 - val_accuracy: 0.7760
Epoch 744/800
.
18/18 Γ==
                                           0s 7ms/step - loss: 0.4146 - accuracy: 0.7882 - val loss: 0.5046 - val accuracy: 0.7760
       745/800
 18/18
                                                        - loss: 0.4146 - accuracy: 0.7882 - val loss: 0.5046 - val accuracy: 0.7760
 Epoch
18/18
                                               7ms/step - loss: 0.4144 - accuracy: 0.7882 - val loss: 0.5045 - val accuracy: 0.7760
       747/800
Epoch
18/18 F==
                                              8ms/step - loss: 0.4144 - accuracy: 0.7847 - val loss: 0.5046 - val accuracy: 0.7760
       748/800
 Epoch
18/18
                                                          loss: 0.4144 -
                                                                          accuracy: 0.7865 - val_loss: 0.5045 -
       [=====
749/800
                                           0s 7ms/step - loss: 0.4143 - accuracy: 0.7865 - val_loss: 0.5046 - val_accuracy: 0.7760
 18/18 [==
Epoch
       750/800
18/18
                                           0s 7ms/step - loss: 0.4142 - accuracy: 0.7847 - val loss: 0.5047 - val accuracy: 0.7760
       751/800
18/18
                                               4ms/step - loss: 0.4143 - accuracy: 0.7882 - val_loss: 0.5048 - val_accuracy: 0.7760
18/1
Epoch 752/
18/18 [======
och 753/800
                                           0s 5ms/step - loss: 0.4143 - accuracy: 0.7865 - val loss: 0.5047 - val accuracy: 0.7760
                                              4ms/sten - loss: 0.4141 - accuracy: 0.7865 - val loss: 0.5048 - val accuracy: 0.7760
       754/800
 Epoch
18/18
                                                                          accuracy: 0.7865 - val_loss: 0.5048 -
       [=====
755/800
 Epoch 755
18/18 [==
                                              5ms/step - loss: 0.4139 - accuracy: 0.7899 - val_loss: 0.5048 - val_accuracy: 0.7760
       756/800
Epoch
 18/18
                                              5ms/step - loss: 0.4139 - accuracy: 0.7865 - val loss: 0.5050 - val accuracy: 0.7760
       757/800
       758/800
Epoch 758
18/18 [==
                                               5ms/step - loss: 0.4138 - accuracy: 0.7847 - val_loss: 0.5048 - val_accuracy: 0.7760
       759/800
Epoch
18/18 F==
                                              5ms/step - loss: 0.4138 - accuracy: 0.7847 - val loss: 0.5049 - val accuracy: 0.7760
       760/800
                                                        - loss: 0.4137 - accuracy: 0.7917 - val_loss: 0.5050 - val_accuracy: 0.7760
       761/800
Epoch
                                           0s 5ms/step - loss: 0.4138 - accuracy: 0.7882 - val loss: 0.5051 - val accuracy: 0.7760
 18/18 [==
Epoch
       762/800
 18/18
                                              5ms/step - loss: 0.4136 - accuracy: 0.7951 - val loss: 0.5051 - val accuracy: 0.7760
       763/800
 Epoch
18/18
       764/800
Epoch
18/18 [=====
Epoch 765/800
                                           0s 4ms/step - loss: 0.4134 - accuracy: 0.7917 - val loss: 0.5051 - val accuracy: 0.7760
 18/18
                                           0s 4ms/step - loss: 0.4134 - accuracy: 0.7899 - val loss: 0.5050 - val accuracy: 0.7760
       .
766/800
                                              5ms/step - loss: 0.4132 - accuracy: 0.7917 - val_loss: 0.5049 - val_accuracy: 0.7760
       767/800
18/18 [======
                          :=======] - 0s 5ms/step - loss: 0.4132 - accuracy: 0.7899 - val loss: 0.5051 - val accuracy: 0.7760
       768/800
 18/18 I
                       =======] - 0s 5ms/step - loss: 0.4132 - accuracy: 0.7917 - val_loss: 0.5053 - val_accuracy: 0.7760
```

```
Epoch 769/800
                                  18/18 [===
        Epoch 770/800
        18/18 Γ===
                              ========] - 0s 5ms/step - loss: 0.4130 - accuracy: 0.7934 - val_loss: 0.5054 - val_accuracy: 0.7760
             771/800
        18/18
                                         ==] - 0s 4ms/step - loss: 0.4130 - accuracy: 0.7899 - val_loss: 0.5054 - val_accuracy: 0.7760
             772/800
                                         ==] - 0s 5ms/step - loss: 0.4129 - accuracy: 0.7934 - val_loss: 0.5055 - val_accuracy: 0.7760
        18/18 [=====
Epoch 773/800
        .
18/18 Γ==
                              774/800
        Epoch
18/18
                                 ========] - 0s 5ms/step - loss: 0.4130 - accuracy: 0.7917 - val_loss: 0.5056 - val_accuracy: 0.7760
              775/800
        Epoch 775,
18/18 [==:
                                        ===] - 0s 4ms/step - loss: 0.4128 - accuracy: 0.7934 - val_loss: 0.5057 - val_accuracy: 0.7760
        Epoch 776/800
        18/18 F
                                 ========] - 0s 4ms/step - loss: 0.4128 - accuracy: 0.7917 - val_loss: 0.5058 - val_accuracy: 0.7760
             777/800
        Epoch
18/18
                                 =======] - 0s 4ms/step - loss: 0.4127 - accuracy: 0.7917 - val_loss: 0.5058 - val_accuracy: 0.7760
             778/800
                                       ===] - Os 4ms/step - loss: 0.4126 - accuracy: 0.7951 - val_loss: 0.5059 - val_accuracy: 0.7760
        18/18 [==
        Epoch 779/800
        18/18 [===
                                ========] - 0s 5ms/step - loss: 0.4125 - accuracy: 0.7951 - val_loss: 0.5061 - val_accuracy: 0.7760
             780/800
                                  ======] - 0s 4ms/step - loss: 0.4126 - accuracy: 0.7917 - val_loss: 0.5062 - val_accuracy: 0.7760
             781/800
        Epoch 781,
18/18 [==:
                                         ==| - 0s 5ms/step - loss: 0.4125 - accuracy: 0.7917 - val loss: 0.5062 - val accuracy: 0.7760
        Epoch 782/800
18/18 [=====
                                 :=======] - 0s 4ms/step - loss: 0.4125 - accuracy: 0.7917 - val_loss: 0.5062 - val_accuracy: 0.7760
       Epocii
18/18
              783/800
                                             0s 5ms/step - loss: 0.4124 - accuracy: 0.7934 - val_loss: 0.5063 - val_accuracy: 0.7760
             784/800
        Epoch
        18/18 [=====
Epoch 785/800
                                 :=======] - 0s 6ms/step - loss: 0.4123 - accuracy: 0.7934 - val loss: 0.5063 - val accuracy: 0.7760
        18/18 F
                               ========] - 0s 4ms/step - loss: 0.4123 - accuracy: 0.7917 - val_loss: 0.5065 - val_accuracy: 0.7760
              786/800
                                 787/800
        Epoch 787,
18/18 [==:
                                  =======] - 0s 5ms/step - loss: 0.4123 - accuracy: 0.7917 - val_loss: 0.5065 - val_accuracy: 0.7760
        Epoch 788/800
18/18 [======
                                 =======] - 0s 4ms/step - loss: 0.4122 - accuracy: 0.7917 - val_loss: 0.5064 - val_accuracy: 0.7760
              789/800
                                 =======] - 0s 5ms/step - loss: 0.4122 - accuracy: 0.7917 - val_loss: 0.5065 - val_accuracy: 0.7760
             790/800
        Epoch
                                   18/18 F==
        Epoch
             791/800
        18/18 I
                                 ======== ] - 0s 5ms/step - loss: 0.4120 - accuracv: 0.7917 - val loss: 0.5066 - val accuracv: 0.7760
              792/800
                                         ==] - 0s 4ms/step - loss: 0.4119 - accuracy: 0.7934 - val_loss: 0.5067 - val_accuracy: 0.7708
             793/800
        Epoch
                                  =======] - 0s 4ms/step - loss: 0.4120 - accuracy: 0.7917 - val loss: 0.5068 - val accuracy: 0.7708
        18/18 [===
        Epoch 794/800
        18/18
                                =======] - 0s 5ms/step - loss: 0.4120 - accuracy: 0.7917 - val_loss: 0.5070 - val_accuracy: 0.7708
              195/800
                              ========] - 0s 5ms/step - loss: 0.4119 - accuracy: 0.7934 - val_loss: 0.5069 - val_accuracy: 0.7708
        18/18 [=====
Epoch 796/800
        18/18 [===
                               797/800
        18/18
                                 :=======] - 0s 4ms/step - loss: 0.4117 - accuracy: 0.7934 - val_loss: 0.5070 - val_accuracy: 0.7708
              .
798/800
                                   799/800
        Epoch
                                18/18 [=====
        Epoch 806
             800/800
                               =======] - 0s 5ms/step - loss: 0.4117 - accuracy: 0.7917 - val_loss: 0.5073 - val_accuracy: 0.7708
In [ ]: y_pred_prob_nnew1 = new_model2.predict(X_test_norm)
y_pred_class_nnew1 = (y_pred_prob_nnew1 > 0.5).astype('int32')
        6/6 [======] - 0s 2ms/step
In [ ]: y_pred_class_nnew1[:10]
Out[ ]: array([[1],
              [0],
              [0],
[0],
[1],
[0],
              [0]], dtype=int32)
In [ ]: y_pred_prob_nnew1[:10]
Out[]: array([[0.6447143],
              [0.762542 ],
[0.3831105 ],
[0.11248234],
              [0.24771403],
              [0.53396714],
              [0.01348655]
              [0.45988557]
              [0.45900337],
[0.887487 ],
[0.1467733 ]], dtype=float32)
In [ ]: def plot_roc(y_test, y_pred, new_model_name1):
           fpr, tpr, thr = roc_curve(y_test, y_pred)
fig, ax = plt.subplots(figsize=(8, 8))
ax.plot(fpr, tpr, 'k-')
ax.plot([0, 1], [0, 1], 'k--', linewidth=.5)  # roc curve for random model
            ax.grid(True)
           In [ ]: print('accuracy is {:.3f}'.format(accuracy_score(y_test,y_pred_class_nnew1)))#y_pred_prob_nnew
print('roc-auc is {:.3f}'.format(roc_auc_score(y_test,y_pred_prob_nnew1)))#y_pred_prob_nnew
        plot_roc(y_test, y_pred_prob_nnew1, 'NN')
        accuracy is 0.771
roc-auc is 0.827
```



• The accuracy of this model, which stands at 74.5%, indicates that the predictions it made were partially accurate. It received an ROC-AUC score of 0.803 in this regard. Higher scores indicate a better separation across classes. This evaluates the model's ability to distinguish between positive and negative examples. Overall, though, this model could be better.

```
In [ ]: run_hist_3.history.keys()
Out[ ]: dict_keys(['loss', 'accuracy', 'val_loss', 'val_accuracy'])
In [ ]: fig, ax = plt.subplots()
            ax.plot(run_hist_3.history["loss"],'r', marker='.', label="Train Loss")
ax.plot(run_hist_3.history["val_loss"],'b', marker='.', label="Validation Loss")
           <matplotlib.legend.Legend at 0x7cf71b44f550>
Out[]:
             0.80

    Validation Loss

             0.75
             0.70
             0.65
             0.60
             0.55
             0.50
             0.45
             0.40 -
In []: fig, ax = plt.subplots()
   ax.plot(run_hist_3.history['accuracy'], 'y', label = 'Train Accuracy')
   ax.plot(run_hist_3.history['val_accuracy'], 'g', label = 'Val Accuracy')
   plt.title("Model 2 Accuracy Graph")
   ax.legend()
           <matplotlib.legend.Legend at 0x7cf71b361450>
                                                Model 2 Accuracy Graph
             0.8
             0.7
            0.6
             0.5
                                                                                             Train Accuracy
```

In []: #y_pred_prob_nn_1 = model.predict(X_test_norm)
#y_pred_class_nn_1 = np.argmax(y_pred_prob_nn_1, axis=1)

— Val Accuracy

0.4

```
Epoch 1/1500
                                           1s 12ms/step - loss: 0.6218 - accuracy: 0.6962 - val_loss: 0.5952 - val_accuracy: 0.7135
18/18 [==
Epoch 2/1500
18/18 F=
                                           0s 4ms/step - loss: 0.6130 - accuracy: 0.7066 - val loss: 0.5894 - val accuracy: 0.7188
Epoch
18/18
       3/1500
                                               5ms/step - loss: 0.6051 - accuracy: 0.7066 - val_loss: 0.5842 - val_accuracy: 0.7292
       4/1500
Epoch
                                           0s 4ms/step - loss: 0.5977 - accuracy: 0.7135 - val_loss: 0.5796 - val_accuracy: 0.7344
18/18 [====
Epoch 5/1500
18/18 F=
                                           0s 4ms/step - loss: 0.5910 - accuracy: 0.7118 - val loss: 0.5754 - val accuracy: 0.7604
       6/1500
 Epoch
18/18
                                               4ms/step - loss: 0.5792 - accuracy: 0.7135 - val loss: 0.5682 - val accuracy: 0.7604
Epoch 8/1500
 18/18
                                              4ms/step - loss: 0.5742 - accuracy: 0.7188 - val loss: 0.5652 - val accuracy: 0.7656
       9/1500
 Epoch
18/18
                                                          loss: 0.5695 -
                                                                         accuracy: 0.7222 - val_loss: 0.5623 - val_accuracy: 0.7656
       10/1500
                                              4ms/step - loss: 0.5651 - accuracy: 0.7240 - val_loss: 0.5597 - val_accuracy: 0.7604
 18/18 [=
Epoch 11/1500
18/18 F
                                           0s 4ms/step - loss: 0.5610 - accuracy: 0.7257 - val loss: 0.5572 - val accuracy: 0.7656
       12/1500
                                              3ms/step - loss: 0.5571 - accuracy: 0.7274 - val_loss: 0.5548 - val_accuracy: 0.7708
       13/1500
Epoch 13/
18/18 [==
                                              4ms/step - loss: 0.5533 - accuracy: 0.7292 - val loss: 0.5525 - val accuracy: 0.7656
Epoch 14/1500
18/18 [=====
                                              4ms/step - loss: 0.5498 - accuracy: 0.7309 - val loss: 0.5504 - val accuracy: 0.7656
Epoc...
18/18
       15/1500
                                                                         accuracy: 0.7326 - val_loss: 0.5485 - val_accuracy: 0.7656
Epoch 16/1500
 18/18 [=====
Epoch 17/1500
                                           0s 4ms/step - loss: 0.5436 - accuracy: 0.7361 - val loss: 0.5467 - val accuracy: 0.7604
18/18
                                           0s 4ms/step - loss: 0.5407 - accuracy: 0.7344 - val loss: 0.5451 - val accuracy: 0.7656
       18/1500
       19/1500
Epoch 19/
18/18 [==
                                              4ms/step - loss: 0.5353 - accuracy: 0.7413 - val_loss: 0.5421 - val_accuracy: 0.7656
Epoch 20/1500
18/18 [=====
                                              4ms/step - loss: 0.5329 - accuracy: 0.7396 - val_loss: 0.5407 - val_accuracy: 0.7656
       21/1500
                                                         loss: 0.5305 - accuracy: 0.7378 - val_loss: 0.5394 -
Epoch 22/1500
18/18 F=
                                              4ms/step - loss: 0.5283 - accuracy: 0.7396 - val loss: 0.5381 - val accuracy: 0.7656
Epoch 23/1500
18/18 I
                                              4ms/step - loss: 0.5262 - accuracy: 0.7361 - val loss: 0.5370 - val accuracy: 0.7656
       24/1500
                                              3ms/step - loss: 0.5243 - accuracy: 0.7378 - val loss: 0.5359 - val accuracy: 0.7708
       [=====
25/1500
Epoch
18/18 [==
                                              4ms/step - loss: 0.5224 - accuracy: 0.7361 - val loss: 0.5348 - val accuracy: 0.7760
 Epoch 26/1500
 18/18
                                              4ms/step - loss: 0.5204 - accuracy: 0.7396 - val_loss: 0.5339 - val_accuracy: 0.7760
       27/1500
 Epoch
18/18
                                               4ms/step - loss: 0.5186 - accuracy: 0.7431 - val_loss: 0.5329 - val_accuracy: 0.7760
18/18 [=====
Epoch 28/1500
18/18 [==
                                           0s 3ms/step - loss: 0.5168 - accuracy: 0.7431 - val loss: 0.5320 - val accuracy: 0.7708
       29/1500
18/18
                                              3ms/step - loss: 0.5151 - accuracy: 0.7483 - val_loss: 0.5311 - val_accuracy: 0.7708
       .
30/1500
       31/1500
Epoch
18/18
                                              4ms/step - loss: 0.5120 - accuracy: 0.7500 - val loss: 0.5294 - val accuracy: 0.7708
       32/1500
 Epoch
                                                          loss: 0.5104 -
                                                                         accuracy: 0.7552 - val_loss: 0.5287 - val_accuracy: 0.7708
       33/1500
 Epoch
18/18
                                                        - loss: 0.5090 - accuracy: 0.7552 - val loss: 0.5279 - val accuracy: 0.7656
Epoch
       34/1500
18/18
                                              4ms/step - loss: 0.5077 - accuracy: 0.7569 - val loss: 0.5272 - val accuracy: 0.7604
 Epoch
       35/1500
 18/18
                                              3ms/step - loss: 0.5063 - accuracy: 0.7604 - val_loss: 0.5264 - val_accuracy: 0.7656
18/1.
Epoch 36/1...
18/18 [======
37/1500
                                              3ms/step - loss: 0.5050 - accuracy: 0.7674 - val_loss: 0.5257 - val_accuracy: 0.7656
                                              3ms/step - loss: 0.5037 - accuracy: 0.7656 - val loss: 0.5249 - val accuracy: 0.7656
 Epoch
18/18
       38/1500
                                                       - loss: 0.5025 -
                                                                         accuracy: 0.7674 - val_loss: 0.5242 - val_accuracy: 0.7656
       [=====
39/1500
 Epoch
18/18
                                               4ms/step - loss: 0.5012 - accuracy: 0.7691 - val_loss: 0.5235 - val_accuracy: 0.7656
18/18 [=====
Epoch 40/1500
18/18 F
                                           0s 3ms/step - loss: 0.5000 - accuracy: 0.7708 - val loss: 0.5228 - val accuracy: 0.7708
       41/1500
 18/18
                                                         loss: 0.4988 -
                                                                         accuracy: 0.7726 - val loss: 0.5221 - val accuracy: 0.7708
18/1
Epoch 42/1
18/18 [======
10ch 43/1500
                                                          loss: 0.4976 - accuracy: 0.7760 - val loss: 0.5214 - val accuracy: 0.7708
18/16 Epoch 44/15
18/18 [======
13/15/00
                                              3ms/step - loss: 0.4965 - accuracy: 0.7760 - val loss: 0.5208 - val accuracy: 0.7708
                                                                         accuracy: 0.7778 - val_loss: 0.5201 - val_accuracy: 0.7708
                                              4ms/step - loss: 0.4944 - accuracy: 0.7760 - val_loss: 0.5195 - val_accuracy: 0.7708
Epoch 46/1500
18/18 F==
                                           0s 3ms/step - loss: 0.4934 - accuracy: 0.7778 - val loss: 0.5188 - val accuracy: 0.7708
       47/1500
Epoch 47/1500
18/18 [======
Epoch 48/1500
18/18 [======
Epoch 49/1500
                                              4ms/step - loss: 0.4924 - accuracy: 0.7760 - val_loss: 0.5182 - val_accuracy: 0.7708
                                           0s 3ms/step - loss: 0.4913 - accuracy: 0.7760 - val loss: 0.5176 - val accuracy: 0.7708
18/18 F=
                                              4ms/sten - loss: 0.4904 - accuracy: 0.7760 - val loss: 0.5170 - val accuracy: 0.7708
       50/1500
 Epoch
18/18
                                                                         accuracy: 0.7760 - val_loss: 0.5164 - val_accuracy: 0.7760
       51/1500
 Epoch 51,
18/18 [==
                                              4ms/step - loss: 0.4885 - accuracy: 0.7760 - val_loss: 0.5158 - val_accuracy: 0.7760
Epoch 52/1500
18/18
                                              3ms/step - loss: 0.4877 - accuracy: 0.7760 - val loss: 0.5153 - val accuracy: 0.7760
       53/1500
       [=====
54/1500
Epoch 54,
18/18 [==
                                              3ms/step - loss: 0.4858 - accuracy: 0.7778 - val_loss: 0.5141 - val_accuracy: 0.7760
       55/1500
Epoch
18/18 F=
                                              4ms/step - loss: 0.4850 - accuracy: 0.7795 - val loss: 0.5136 - val accuracy: 0.7708
       56/1500
                                                        - loss: 0.4842 - accuracy: 0.7812 - val_loss: 0.5131 - val_accuracy: 0.7708
       [=====
57/1500
Epoch
                                           Os 3ms/step - loss: 0.4833 - accuracy: 0.7812 - val loss: 0.5126 - val accuracy: 0.7708
 18/18 [=
Epoch
       58/1500
 18/18
                                              3ms/step - loss: 0.4826 - accuracy: 0.7812 - val loss: 0.5121 - val accuracy: 0.7760
       59/1500
 Epoch
18/18
       60/1500
Epoch
18/18 [=
                                           0s 3ms/step - loss: 0.4811 - accuracy: 0.7743 - val loss: 0.5111 - val accuracy: 0.7760
       61/1500
 Epoch
 18/18 F
                                              3ms/step - loss: 0.4803 - accuracy: 0.7726 - val loss: 0.5106 - val accuracy: 0.7760
       62/1500
                                              3ms/step - loss: 0.4797 - accuracy: 0.7743 - val_loss: 0.5102 - val_accuracy: 0.7760
 18/18 [=====
Epoch 63/1500
18/18 [=====
                          Epoch 64/1500
18/18 [=====
```

	65/1500											
	[=======] 66/1500	-	0s	3ms/step	- loss:	0.4777 -	accuracy:	0.7708 -	val_loss:	0.5088	· val_accuracy:	0.7812
18/18	[=====================================	-	0s	4ms/step	- loss:	0.4770 -	accuracy:	0.7674 -	val_loss:	0.5084	val_accuracy:	0.7812
18/18	[]	-	0s	3ms/step	- loss:	0.4763 -	accuracy:	0.7674 -	val_loss:	0.5081	val_accuracy:	0.7812
	68/1500 []	_	0s	4ms/step	- loss:	0.4757 -	accuracy:	0.7674 -	val_loss:	0.5077	· val_accuracy:	0.7812
Epoch	69/1500 [======]											
Epoch	70/1500											
Epoch	[=========] 71/1500						-		_			
	[=======] 72/1500	-	0s	3ms/step	- loss:	0.4738 -	accuracy:	0.7674 -	val_loss:	0.5067	· val_accuracy:	0.7812
18/18	[]	-	0s	4ms/step	- loss:	0.4734 -	accuracy:	0.7691 -	val_loss:	0.5064	val_accuracy:	0.7812
	73/1500 [========]	-	0s	3ms/step	- loss:	0.4728 -	accuracy:	0.7691 -	val_loss:	0.5061	val_accuracy:	0.7812
	74/1500 []	_	9s	4ms/sten	- loss:	0.4722 -	accuracy:	0.7674 -	val loss:	0.5058	· val accuracy:	0.7760
Epoch	75/1500											
	[========] 76/1500	-	05	sms/step -	- 1055:	0.4/1/ -	accuracy:	0.7691 -	· vai_ioss:	0.5055	· vai_accuracy:	0.7708
	[=======] 77/1500	-	0s	4ms/step	- loss:	0.4712 -	accuracy:	0.7674 -	val_loss:	0.5052	· val_accuracy:	0.7760
18/18	[]	-	0s	3ms/step	- loss:	0.4706 -	accuracy:	0.7691 -	val_loss:	0.5049	val_accuracy:	0.7760
18/18	78/1500 []	-	0s	3ms/step	- loss:	0.4700 -	accuracy:	0.7674 -	val_loss:	0.5046	val_accuracy:	0.7708
	79/1500 [=======]	_	0s	4ms/step	- loss:	0.4696 -	accuracy:	0.7674 -	val loss:	0.5043	· val accuracy:	0.7708
Epoch	80/1500 [======]						-		_			
Epoch	81/1500						-		_			
	[=========] 82/1500	-	0s	3ms/step	- loss:	0.4686 -	accuracy:	0.7691 -	val_loss:	0.5037	· val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4680 -	accuracy:	0.7708 -	val_loss:	0.5034	val_accuracy:	0.7708
18/18	83/1500 [=======]	-	0s	4ms/step	- loss:	0.4674 -	accuracy:	0.7691 -	val_loss:	0.5032	val_accuracy:	0.7708
	84/1500 []	_	0s	4ms/step	- loss:	0.4669 -	accuracv:	0.7674 -	val loss:	0.5029	· val_accuracv:	0.7708
Epoch	85/1500											
Epoch	[=======] 86/1500											
	[=======] 87/1500	-	0s	5ms/step	- loss:	0.4658 -	accuracy:	0.7708 -	val_loss:	0.5024	val_accuracy:	0.7760
18/18	[=======] 88/1500	-	0s	4ms/step	- loss:	0.4653 -	accuracy:	0.7708 -	val_loss:	0.5022	val_accuracy:	0.7760
18/18	[=======]	-	0s	4ms/step	- loss:	0.4647 -	accuracy:	0.7708 -	val_loss:	0.5020	val_accuracy:	0.7760
	89/1500 []	_	0s	5ms/step	- loss:	0.4642 -	accuracy:	0.7726 -	val loss:	0.5018	· val accuracv:	0.7708
Epoch	90/1500											
Epoch	[========] 91/1500											
	[========] 92/1500	-	0s	6ms/step	- loss:	0.4631 -	accuracy:	0.7743 -	val_loss:	0.5013	· val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4627 -	accuracy:	0.7726 -	val_loss:	0.5011	val_accuracy:	0.7708
18/18	93/1500 [=======]	-	0s	5ms/step	- loss:	0.4622 -	accuracy:	0.7743 -	val_loss:	0.5009	val_accuracy:	0.7708
	94/1500 [========]	_	0s	8ms/step	- loss:	0.4617 -	accuracy:	0.7778 -	val loss:	0.5007	· val accuracv:	0.7708
Epoch	95/1500 [======]						-		_			
Epoch	96/1500						-		_			
	[========] 97/1500	-	0s	5ms/step	- loss:	0.4608 -	accuracy:	0.7760 -	val_loss:	0.5003	· val_accuracy:	0.7708
18/18	[=======] 98/1500	-	0s	5ms/step	- loss:	0.4603 -	accuracy:	0.7760 -	val_loss:	0.5001	· val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4598 -	accuracy:	0.7760 -	val_loss:	0.4999	val_accuracy:	0.7708
	99/1500 []	_	0s	5ms/step	- loss:	0.4593 -	accuracy:	0.7812 -	val_loss:	0.4997	· val_accuracy:	0.7708
	100/1500	_	۵c	5mc/stan	- 1000	0 1589 -	accuracy:	0 7795 -	val loss:	0 1995	val accuracy:	0 7708
Epoch	101/1500											
	[========] 102/1500	-	ØS.	5ms/step	- loss:	0.4584 -	accuracy:	0.7812 -	· val_loss:	0.4993	· val_accuracy:	0.7708
	[=======] 103/1500	-	0s	4ms/step	- loss:	0.4578 -	accuracy:	0.7847 -	val_loss:	0.4991	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4574 -	accuracy:	0.7795 -	val_loss:	0.4989	val_accuracy:	0.7708
	104/1500 [========]	-	0s	5ms/step	- loss:	0.4570 -	accuracy:	0.7795 -	val_loss:	0.4988	val_accuracy:	0.7708
	105/1500	_	0s	7ms/step	- loss:	0.4565 -	accuracy:	0.7795 -	val loss:	0.4986	· val accuracv:	0.7708
Epoch	106/1500											
Epoch	[========] 107/1500						-		_			
	[=========] 108/1500	-	0s	7ms/step	- loss:	0.4555 -	accuracy:	0.7795 -	val_loss:	0.4982	· val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4551 -	accuracy:	0.7795 -	val_loss:	0.4981	val_accuracy:	0.7708
18/18	109/1500 []	-	0s	5ms/step	- loss:	0.4547 -	accuracy:	0.7812 -	val_loss:	0.4979	val_accuracy:	0.7708
	110/1500	_	0s	5ms/step	- loss:	0.4542 -	accuracy:	0.7812 -	val_loss:	0.4977	· val_accuracv:	0.7708
Epoch	111/1500 [=======]						-		_			
Epoch	112/1500						-		_			
Epoch	[========] 113/1500						-		_			
18/18	[=======] 114/1500	-	0s	5ms/step	- loss:	0.4531 -	accuracy:	0.7812 -	val_loss:	0.4973	<pre>val_accuracy:</pre>	0.7656
18/18	[]	-	0s	6ms/step	- loss:	0.4527 -	accuracy:	0.7812 -	val_loss:	0.4971	val_accuracy:	0.7656
	115/1500 [========]	-	0s	6ms/step	- loss:	0.4522 -	accuracy:	0.7830 -	val_loss:	0.4970	· val_accuracy:	0.7656
	116/1500	_	۵s	6ms/sten	- loss:	0 4520 -	accuracy:	a 783a -	val loss:	a 4969 .	val accuracy:	0 7656
Epoch	117/1500											
Epoch	[=======] 118/1500											
18/18	[======] 119/1500	-	0s	7ms/step	- loss:	0.4512 -	accuracy:	0.7847 -	val_loss:	0.4966	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.4508 -	accuracy:	0.7865 -	val_loss:	0.4965	val_accuracy:	0.7656
18/18	120/1500 []	-	0s	6ms/step	- loss:	0.4505 -	accuracy:	0.7865 -	val_loss:	0.4964	val_accuracy:	0.7656
	121/1500 []	_	05	5ms/sten	- loss:	0.4501 -	accuracy.	0.7899 -	val loss:	0.4963	· val accuracy:	0.7656
Epoch	122/1500											
Epoch	[========] 123/1500											
18/18	[=======] 124/1500	-	0s	5ms/step	- loss:	0.4495 -	accuracy:	0.7865 -	val_loss:	0.4960	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4491 -	accuracy:	0.7882 -	val_loss:	0.4959	val_accuracy:	0.7708
18/18	125/1500 []	-	0s	4ms/step	- loss:	0.4487 -	accuracy:	0.7882 -	val_loss:	0.4958	val_accuracy:	0.7708
	126/1500	_	05	4ms/sten	- loss:	0.4484 -	accuracy.	0.7847 -	val loss	0.4958	· val accuracy:	0.7708
Epoch	127/1500						-		_			
Epoch	[=======] 128/1500								_			
	[]	-	0s	4ms/step	- loss:	0.4477 -	accuracy:	0.7865 -	val_loss:	0.4956	val_accuracy:	0.7708

	129/1500	۱ ـ	Qc.	Ams/sten	- 1055.	0 4474 -	accuracy:	0 7847 -	. val loss:	0 1955	- val accuracy:	0 7708
Epoch	130/1500						-		_			
	[=====================================	-	0s	4ms/step	- loss:	0.4470 -	accuracy:	0.7882 -	· val_loss:	0.4955	- val_accuracy:	0.7656
	[========] 132/1500	-	0s	4ms/step	- loss:	0.4468 -	accuracy:	0.7865 -	· val_loss:	0.4954	- val_accuracy:	0.7656
	[=======] 133/1500	-	0s	3ms/step	- loss:	0.4464 -	accuracy:	0.7882 -	val_loss:	0.4953	- val_accuracy:	0.7656
	[=======] 134/1500	-	0s	4ms/step	- loss:	0.4460 -	accuracy:	0.7865 -	val_loss:	0.4952	- val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4458 -	accuracy:	0.7882 -	val_loss:	0.4952	- val_accuracy:	0.7708
18/18	135/1500 [======]	-	0s	4ms/step	- loss:	0.4454 -	accuracy:	0.7865 -	val_loss:	0.4951	- val_accuracy:	0.7708
	136/1500	-	0s	4ms/step	- loss:	0.4451 -	accuracy:	0.7865 -	val_loss:	0.4950	- val_accuracy:	0.7708
	137/1500	-	0s	4ms/step	- loss:	0.4447 -	accuracy:	0.7865 -	- val loss:	0.4950	- val accuracy:	0.7708
Epoch	138/1500											
Epoch	139/1500											
Epoch	[======] 140/1500											
	[========] 141/1500	-	0s	4ms/step	- loss:	0.4438 -	accuracy:	0.7865 -	· val_loss:	0.4948	- val_accuracy:	0.7708
	[========] 142/1500	-	0s	3ms/step	- loss:	0.4436 -	accuracy:	0.7865 -	· val_loss:	0.4948	- val_accuracy:	0.7708
18/18	[=======] 143/1500	-	0s	3ms/step	- loss:	0.4432 -	accuracy:	0.7865 -	val_loss:	0.4947	- val_accuracy:	0.7708
18/18	[=======] 144/1500	-	0s	5ms/step	- loss:	0.4429 -	accuracy:	0.7847 -	val_loss:	0.4947	- val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4428 -	accuracy:	0.7847 -	val_loss:	0.4946	- val_accuracy:	0.7708
18/18	145/1500 []	-	0s	4ms/step	- loss:	0.4424 -	accuracy:	0.7865 -	- val_loss:	0.4946	- val_accuracy:	0.7708
	146/1500	-	0s	4ms/step	- loss:	0.4423 -	accuracy:	0.7847 -	- val_loss:	0.4946	- val_accuracy:	0.7708
Epoch	147/1500 [======]											
Epoch	148/1500											
Epoch	[======] 149/1500											
Epoch	[======] 150/1500											
	[========] 151/1500	-	0s	4ms/step	- loss:	0.4411 -	accuracy:	0.7865 -	val_loss:	0.4944	- val_accuracy:	0.7708
	[=======] 152/1500	-	0s	4ms/step	- loss:	0.4407 -	accuracy:	0.7882 -	val_loss:	0.4944	- val_accuracy:	0.7708
18/18	[=======] 153/1500	-	0s	4ms/step	- loss:	0.4405 -	accuracy:	0.7865 -	val_loss:	0.4943	- val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4403 -	accuracy:	0.7865 -	val_loss:	0.4943	- val_accuracy:	0.7708
18/18	154/1500 []	-	0s	4ms/step	- loss:	0.4400 -	accuracy:	0.7865 -	- val_loss:	0.4943	- val_accuracy:	0.7708
	155/1500 [=======]	-	0s	3ms/step	- loss:	0.4397 -	accuracy:	0.7847 -	val_loss:	0.4942	- val_accuracy:	0.7708
	156/1500	l -	0s	4ms/step	- loss:	0.4395 -	accuracy:	0.7865 -	- val loss:	0.4942	- val accuracv:	0.7708
Epoch	157/1500 [======]											
Epoch	158/1500											
Epoch	[======] 159/1500						-		_			
Epoch	[========] 160/1500						-		_			
	[=======] 161/1500	-	0s	4ms/step	- loss:	0.4386 -	accuracy:	0.7882 -	· val_loss:	0.4942	- val_accuracy:	0.7708
	[======] 162/1500	-	0s	4ms/step	- loss:	0.4383 -	accuracy:	0.7882 -	val_loss:	0.4942	- val_accuracy:	0.7708
18/18	[======] 163/1500	-	0s	4ms/step	- loss:	0.4380 -	accuracy:	0.7899 -	val_loss:	0.4942	- val_accuracy:	0.7708
18/18	[]	-	0s	3ms/step	- loss:	0.4379 -	accuracy:	0.7882 -	val_loss:	0.4941	- val_accuracy:	0.7708
18/18	164/1500 [=======]	-	0s	4ms/step	- loss:	0.4376 -	accuracy:	0.7899 -	- val_loss:	0.4941	- val_accuracy:	0.7708
	165/1500 [==========]	-	0s	4ms/step	- loss:	0.4374 -	accuracy:	0.7882 -	val_loss:	0.4941	- val_accuracy:	0.7708
	166/1500	-	0s	3ms/step	- loss:	0.4372 -	accuracy:	0.7917 -	- val_loss:	0.4941	- val_accuracy:	0.7760
	167/1500 [======]	-	0s	4ms/step	- loss:	0.4370 -	accuracy:	0.7899 -	- val loss:	0.4941	- val accuracv:	0.7760
Epoch	168/1500 [=======]						-		_			
Epoch	169/1500						-		_			
Epoch	[========] 170/1500											
Epoch	[=====================================											
	[======] 172/1500	-	0s	3ms/step	- loss:	0.4362 -	accuracy:	0.7899 -	· val_loss:	0.4941	- val_accuracy:	0.7812
18/18	[=======] 173/1500	-	0s	4ms/step	- loss:	0.4360 -	accuracy:	0.7917 -	val_loss:	0.4940	- val_accuracy:	0.7760
18/18	[======] 174/1500	-	0s	3ms/step	- loss:	0.4358 -	accuracy:	0.7917 -	val_loss:	0.4940	- val_accuracy:	0.7760
18/18	[]	-	0s	4ms/step	- loss:	0.4356 -	accuracy:	0.7917 -	val_loss:	0.4940	- val_accuracy:	0.7760
18/18	175/1500 [=======]	-	0s	4ms/step	- loss:	0.4354 -	accuracy:	0.7917 -	- val_loss:	0.4940	- val_accuracy:	0.7760
	176/1500 [======]	-	0s	3ms/step	- loss:	0.4352 -	accuracy:	0.7917 -	val_loss:	0.4939	- val_accuracy:	0.7760
	177/1500	-	0s	3ms/step	- loss:	0.4350 -	accuracy:	0.7917 -	- val_loss:	0.4939	- val_accuracy:	0.7760
	178/1500 [=======]	I -	as	3ms/sten	- loss.	0 4348 -	accuracy:	0 7917 -	- val loss:	0 4939	- val accuracy:	0 7760
Epoch	179/1500											
Epoch	[======] 180/1500											
Epoch	[=======] 181/1500											
Epoch	[========] 182/1500											
18/18	[=======] 183/1500	-	0s	4ms/step	- loss:	0.4341 -	accuracy:	0.7917 -	val_loss:	0.4938	- val_accuracy:	0.7760
18/18	[=======] 184/1500	-	0s	3ms/step	- loss:	0.4339 -	accuracy:	0.7917 -	val_loss:	0.4938	val_accuracy:	0.7760
18/18	[======] 185/1500	-	0s	4ms/step	- loss:	0.4338 -	accuracy:	0.7917 -	val_loss:	0.4938	- val_accuracy:	0.7760
18/18	[]	-	0s	4ms/step	- loss:	0.4336 -	accuracy:	0.7917 -	val_loss:	0.4937	- val_accuracy:	0.7760
18/18	186/1500 [=======]	-	0s	4ms/step	- loss:	0.4334 -	accuracy:	0.7917 -	val_loss:	0.4937	- val_accuracy:	0.7760
Epoch	187/1500 [=======]											
Epoch	188/1500 [=======]											
Epoch	[] 189/1500 []											
Epoch	190/1500											
Epoch	[=======] 191/1500						-		_			
	[======] 192/1500	-	0s	4ms/step	- loss:	0.4327 -	accuracy:	0.7917 -	· val_loss:	0.4937	- val_accuracy:	0.7760
	[]	-	0s	4ms/step	- loss:	0.4325 -	accuracy:	0.7917 -	val_loss:	0.4937	- val_accuracy:	0.7760

-p	193/1500	,	0-	4	1	0.4222		0 7017		0.4027		0.7760
Epoch	[=====================================						-		_			
	[=====================================] -	0s	4ms/step -	· loss:	0.4322 -	accuracy:	0.7917 -	val_loss:	0.4937 -	· val_accuracy:	0.7760
18/18	[=======] 196/1500] -	0s	4ms/step -	· loss:	0.4320 -	accuracy:	0.7917 -	val_loss:	0.4937 -	· val_accuracy:	0.7760
18/18	[]] -	0s	4ms/step -	· loss:	0.4320 -	accuracy:	0.7917 -	val_loss:	0.4937 -	val_accuracy:	0.7760
	197/1500] -	0s	4ms/step -	- loss:	0.4317 -	accuracy:	0.7917 -	val_loss:	0.4936 -	· val_accuracy:	0.7760
	198/1500	1 -	۵s	4ms/sten -	- loss.	0 4317 -	accuracy:	0 7917 -	val loss:	a 4936 -	val accuracy:	0 7760
Epoch	199/1500						-		_			
	[=====================================] -	0s	3ms/step -	· loss:	0.4315 -	accuracy:	0.7917 -	val_loss:	0.4936 -	· val_accuracy:	0.7760
	[========] 201/1500] -	0s	4ms/step -	· loss:	0.4313 -	accuracy:	0.7917 -	val_loss:	0.4936 -	val_accuracy:	0.7760
18/18	[]] -	0s	4ms/step -	· loss:	0.4312 -	accuracy:	0.7917 -	val_loss:	0.4936 -	val_accuracy:	0.7760
	202/1500 [=======]] -	0s	4ms/step -	- loss:	0.4311 -	accuracy:	0.7917 -	val_loss:	0.4936 -	· val_accuracy:	0.7760
	203/1500	1 -	9s	3ms/sten -	- loss:	0.4310 -	accuracy:	0.7917 -	val loss:	0.4936	· val accuracy:	0.7760
Epoch	204/1500											
	[=====================================	J -	ØS	3ms/step -	· loss:	0.4308 -	accuracy:	0.7917 -	val_loss:	0.4936 -	· val_accuracy:	0.7760
	[=====================================] -	0s	4ms/step -	· loss:	0.4307 -	accuracy:	0.7934 -	val_loss:	0.4936 -	· val_accuracy:	0.7760
18/18	[======] 207/1500] -	0s	5ms/step -	- loss:	0.4306 -	accuracy:	0.7934 -	val_loss:	0.4936 -	val_accuracy:	0.7760
18/18	[]] -	0s	4ms/step -	· loss:	0.4304 -	accuracy:	0.7951 -	val_loss:	0.4936	val_accuracy:	0.7708
	208/1500] -	0s	4ms/step -	- loss:	0.4303 -	accuracy:	0.7917 -	val_loss:	0.4936 -	· val_accuracy:	0.7760
Epoch	209/1500 [======]						-		_			
Epoch	210/1500						-		_			
	[=====================================] -	0s	4ms/step -	· loss:	0.4301 -	accuracy:	0.7951 -	val_loss:	0.4936 -	· val_accuracy:	0.7760
18/18	[=======] 212/1500] -	0s	4ms/step -	· loss:	0.4299 -	accuracy:	0.7951 -	val_loss:	0.4936 -	val_accuracy:	0.7760
18/18	[]] -	0s	3ms/step -	· loss:	0.4297 -	accuracy:	0.7969 -	val_loss:	0.4936 -	val_accuracy:	0.7760
18/18	213/1500 [=========]] -	0s	3ms/step -	· loss:	0.4297 -	accuracy:	0.7951 -	val_loss:	0.4936	· val_accuracy:	0.7760
Epoch	214/1500											
Epoch	215/1500						-		_			
	[=====================================	J -	05	4ms/step -	. 1055:	0.4294 -	accuracy:	0.7934 -	vai_ioss:	0.4936	· vai_accuracy:	0.7760
	[========] 217/1500] -	0s	4ms/step -	- loss:	0.4293 -	accuracy:	0.7969 -	val_loss:	0.4936 -	val_accuracy:	0.7760
18/18	[]] -	0s	4ms/step -	· loss:	0.4292 -	accuracy:	0.7951 -	val_loss:	0.4936 -	val_accuracy:	0.7760
18/18	218/1500] -	0s	4ms/step -	· loss:	0.4290 -	accuracy:	0.7969 -	val_loss:	0.4937 -	val_accuracy:	0.7760
	219/1500 [=======]	1 -	0s	4ms/step -	- loss:	0.4289 -	accuracy:	0.7986 -	val loss:	0.4937 -	· val accuracy:	0.7760
Epoch	220/1500											
Epoch	[========] 221/1500											
	[========] 222/1500] -	0s	4ms/step -	· loss:	0.4287 -	accuracy:	0.7986 -	val_loss:	0.4937 -	· val_accuracy:	0.7760
18/18	[=====================================] -	0s	3ms/step -	- loss:	0.4286 -	accuracy:	0.7951 -	val_loss:	0.4937 -	val_accuracy:	0.7760
18/18	[]] -	0s	4ms/step -	· loss:	0.4284 -	accuracy:	0.7986 -	val_loss:	0.4937	val_accuracy:	0.7760
	224/1500] -	0s	4ms/step -	- loss:	0.4283 -	accuracy:	0.7986 -	val_loss:	0.4937 -	· val_accuracy:	0.7760
Epoch	225/1500 [======]						-		_			
Epoch	226/1500						-		_			
	[=====================================] -	0s	4ms/step -	· loss:	0.4281 -	accuracy:	0.7969 -	val_loss:	0.4937 -	· val_accuracy:	0.7760
	[========] 228/1500] -	0s	4ms/step -	- loss:	0.4280 -	accuracy:	0.7969 -	val_loss:	0.4937 -	val_accuracy:	0.7760
18/18	[]] -	0s	4ms/step -	· loss:	0.4278 -	accuracy:	0.7986 -	val_loss:	0.4937 -	val_accuracy:	0.7760
	229/1500 [=========]] -	0s	4ms/step -	· loss:	0.4278 -	accuracy:	0.7969 -	val_loss:	0.4937	val_accuracy:	0.7760
	230/1500	1 -	0s	4ms/step -	- loss:	0.4276 -	accuracy:	0.7986 -	val loss:	0.4937 -	· val accuracv:	0.7760
Epoch	231/1500						-		_			
Epoch	232/1500						-		_			
	[=====================================] -	0s	4ms/step -	· loss:	0.4273 -	accuracy:	0.7986 -	val_loss:	0.4937 -	· val_accuracy:	0.7760
	[=======] 234/1500] -	0s	5ms/step -	· loss:	0.4273 -	accuracy:	0.7986 -	val_loss:	0.4938 -	val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step -	· loss:	0.4272 -	accuracy:	0.7986 -	val_loss:	0.4938	val_accuracy:	0.7708
	235/1500 []] -	0s	3ms/step -	· loss:	0.4270 -	accuracy:	0.7969 -	val_loss:	0.4938	val_accuracy:	0.7708
Epoch	236/1500											
Epoch	237/1500											
Epoch	[=======] 238/1500											
	[========] 239/1500] -	0s	4ms/step -	· loss:	0.4267 -	accuracy:	0.7986 -	val_loss:	0.4938 -	val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step -	· loss:	0.4266 -	accuracy:	0.8003 -	val_loss:	0.4939 -	val_accuracy:	0.7656
18/18	240/1500] -	0s	4ms/step -	· loss:	0.4265 -	accuracy:	0.8003 -	val_loss:	0.4939	val_accuracy:	0.7656
	241/1500 [=======]] -	0s	3ms/step -	- loss:	0.4263 -	accuracy:	0.8003 -	val_loss:	0.4939	· val_accuracy:	0.7708
Epoch	242/1500 [======]						-		_			
Epoch	243/1500											
	[=====================================] -	0s	4ms/step -	· loss:	0.4262 -	accuracy:	0.8003 -	val_loss:	0.4940 -	· val_accuracy:	0.7708
18/18	[=====================================] -	0s	4ms/step -	· loss:	0.4261 -	accuracy:	0.8003 -	val_loss:	0.4940	val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step -	· loss:	0.4259 -	accuracy:	0.8003 -	val_loss:	0.4940	val_accuracy:	0.7708
18/18	246/1500 [======]] -	0s	5ms/step -	· loss:	0.4258 -	accuracy:	0.8003 -	val_loss:	0.4940	val_accuracy:	0.7708
	247/1500 []] -	0s	4ms/step -	- loss:	0.4257 -	accuracv:	0.8003 -	val loss:	0.4940 -	· val_accuracv:	0.7708
Epoch	248/1500						-		_			
Epoch	[=====================================						-		_			
	[=======] 250/1500] -	0s	5ms/step -	· loss:	0.4255 -	accuracy:	0.8003 -	val_loss:	0.4941 -	· val_accuracy:	0.7708
18/18	[======================================] -	0s	4ms/step -	· loss:	0.4254 -	accuracy:	0.8003 -	val_loss:	0.4941 -	val_accuracy:	0.7708
18/18	251/1500 [======]] -	0s	4ms/step -	· loss:	0.4254 -	accuracy:	0.8003 -	val_loss:	0.4941	val_accuracy:	0.7708
	252/1500 []] -	0s	4ms/step -	- loss:	0.4252 -	accuracv:	0.8003 -	val loss:	0.4942 -	· val_accuracv:	0.7708
Epoch	253/1500						-		_			
Epoch	[=======] 254/1500											
	[========] 255/1500] -	0s	5ms/step -	· loss:	0.4251 -	accuracy:	0.8003 -	val_loss:	0.4942 -	val_accuracy:	0.7708
		,	95	5ms/step -	- loss:	0 1210	accuracy.	0.8038 -	val loss:	0.4942 -	val accuracy:	0.7708
	256 (1500] -				0.4245 -	accuracy.		vu1_1035.		var_accuracy.	
Epoch	[] 256/1500 []						-		_			0.779

	257/1500		0-	5 (-t		0.4247		0.0024		0.4043		0.7700
Epoch	[=====================================						-		_			
	[=======] 259/1500] -	0s	5ms/step -	· loss:	0.4246 -	accuracy:	0.8003 -	val_loss:	0.4943 -	· val_accuracy:	0.7708
	[======================================] -	0s	4ms/step -	· loss:	0.4246 -	accuracy:	0.8021 -	val_loss:	0.4943 -	val_accuracy:	0.7708
18/18	260/1500 [=======]] -	0s	5ms/step -	· loss:	0.4245 -	accuracy:	0.8038 -	val_loss:	0.4944	val_accuracy:	0.7708
	261/1500 [=======]] -	0s	5ms/step -	loss:	0.4244 -	accuracy:	0.8021 -	val_loss:	0.4944	· val_accuracy:	0.7760
	262/1500	1 -	۵s	5ms/sten -	- loss	0 4243 -	accuracy:	0 8021 -	val loss:	a 4944 -	val accuracy:	0 7760
Epoch	263/1500						-		_			
	[=====================================] -	0s	5ms/step -	loss:	0.4242 -	accuracy:	0.8038 -	val_loss:	0.4945	· val_accuracy:	0.7760
	[=====================================] -	0s	5ms/step -	· loss:	0.4242 -	accuracy:	0.8003 -	val_loss:	0.4945	val_accuracy:	0.7760
18/18	[]] -	0s	4ms/step -	· loss:	0.4241 -	accuracy:	0.8038 -	val_loss:	0.4946	val_accuracy:	0.7760
	266/1500 [=======]] -	0s	5ms/step -	- loss:	0.4240 -	accuracy:	0.8038 -	val_loss:	0.4946	· val_accuracy:	0.7760
	267/1500 [=======]	1 -	0s	5ms/sten -	- loss:	0.4239 -	accuracy:	0.8056 -	val loss:	0.4946	· val accuracy:	0.7760
Epoch	268/1500											
	[=====================================	-	0s	6ms/step -	loss:	0.4239 -	accuracy:	0.8073 -	val_loss:	0.4947 -	· val_accuracy:	0.7760
	[=====================================] -	0s	6ms/step -	· loss:	0.4238 -	accuracy:	0.8056 -	val_loss:	0.4947 -	val_accuracy:	0.7760
18/18	[]] -	0s	5ms/step -	· loss:	0.4237 -	accuracy:	0.8056 -	val_loss:	0.4948 -	val_accuracy:	0.7760
	271/1500 [=========]] -	0s	6ms/step -	· loss:	0.4236 -	accuracy:	0.8056 -	val_loss:	0.4948	val_accuracy:	0.7760
	272/1500 [1 -	0s	5ms/sten -	- loss:	0.4236 -	accuracy:	0.8056 -	val loss:	0.4948 -	· val accuracy:	0.7760
Epoch	273/1500						•		_		_ ′	
	[=======] 274/1500	-	05	Sms/step -	1055:	0.4235 -	accuracy:	0.80/3 -	vai_ioss:	0.4949	· vai_accuracy:	0.7760
	[=====================================] -	0s	6ms/step -	· loss:	0.4234 -	accuracy:	0.8073 -	val_loss:	0.4949	· val_accuracy:	0.7760
18/18	[=======] 276/1500] -	0s	6ms/step -	· loss:	0.4233 -	accuracy:	0.8073 -	val_loss:	0.4949	val_accuracy:	0.7760
18/18	[]] -	0s	5ms/step -	· loss:	0.4232 -	accuracy:	0.8056 -	val_loss:	0.4950	val_accuracy:	0.7760
	277/1500 [=======]] -	0s	5ms/step -	loss:	0.4232 -	accuracy:	0.8073 -	val_loss:	0.4950	· val_accuracv:	0.7760
Epoch	278/1500 [======]											
Epoch	279/1500						-		_			
	[=====================================] -	0s	6ms/step -	loss:	0.4230 -	accuracy:	0.8073 -	val_loss:	0.4952 -	· val_accuracy:	0.7760
18/18	[=====================================] -	0s	6ms/step -	· loss:	0.4230 -	accuracy:	0.8073 -	val_loss:	0.4952 -	· val_accuracy:	0.7760
18/18	[]] -	0s	5ms/step -	· loss:	0.4230 -	accuracy:	0.8073 -	val_loss:	0.4953	val_accuracy:	0.7760
	282/1500 [=======]] -	0s	6ms/step -	- loss:	0.4228 -	accuracy:	0.8073 -	val_loss:	0.4953 -	· val_accuracy:	0.7760
Epoch	283/1500 [======]											
Epoch	284/1500											
	[=====================================	-	0s	6ms/step -	loss:	0.4227 -	accuracy:	0.8073 -	val_loss:	0.4955 -	· val_accuracy:	0.7760
	[=======] 286/1500] -	0s	5ms/step -	· loss:	0.4227 -	accuracy:	0.8073 -	val_loss:	0.4955 -	val_accuracy:	0.7760
18/18	[]] -	0s	5ms/step -	· loss:	0.4227 -	accuracy:	0.8073 -	val_loss:	0.4955 -	val_accuracy:	0.7760
	287/1500 [=========]] -	0s	6ms/step -	· loss:	0.4226 -	accuracy:	0.8090 -	val_loss:	0.4955	val_accuracy:	0.7760
	288/1500 []	1 -	0s	7ms/step -	- loss:	0.4225 -	accuracy:	0.8090 -	val loss:	0.4956 -	· val accuracv:	0.7708
Epoch	289/1500						-		_			
Epoch	[=====================================											
	[=====================================] -	0s	5ms/step -	· loss:	0.4224 -	accuracy:	0.8038 -	val_loss:	0.4957 -	· val_accuracy:	0.7708
18/18	[]] -	0s	5ms/step -	· loss:	0.4223 -	accuracy:	0.8090 -	val_loss:	0.4957 -	val_accuracy:	0.7708
18/18	292/1500 [=======]] -	0s	5ms/step -	· loss:	0.4223 -	accuracy:	0.8073 -	val_loss:	0.4958 -	val_accuracy:	0.7708
	293/1500 [=======]] -	0s	5ms/step -	- loss:	0.4221 -	accuracy:	0.8056 -	val_loss:	0.4958	· val_accuracy:	0.7708
	294/1500	1 -	۵s	4ms/sten -	- loss	0 4222 -	accuracy:	a 8a9a -	val loss:	a 4959 -	val accuracy:	0 7708
Epoch	295/1500						-		_			
	[=====================================	-	ØS.	4ms/step -	loss:	0.4220 -	accuracy:	0.8090 -	val_loss:	0.4959	· val_accuracy:	0.7708
	[=======] 297/1500] -	0s	4ms/step -	· loss:	0.4221 -	accuracy:	0.8073 -	val_loss:	0.4960	· val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step -	· loss:	0.4221 -	accuracy:	0.8073 -	val_loss:	0.4960 -	val_accuracy:	0.7708
18/18	298/1500 [======]] -	0s	4ms/step -	· loss:	0.4219 -	accuracy:	0.8090 -	val_loss:	0.4960	val_accuracy:	0.7708
	299/1500 [=======]	1 -	0s	5ms/step -	loss:	0.4219 -	accuracy:	0.8073 -	val loss:	0.4961 -	· val accuracy:	0.7708
Epoch	300/1500											
Epoch	301/1500						-		_			
	[=====================================	-	Øs	4ms/step -	loss:	v.4217 -	accuracy:	0.8073 -	val_loss:	υ.4962 ·	· val_accuracy:	ø.7708
18/18	[========] 303/1500] -	0s	4ms/step -	· loss:	0.4218 -	accuracy:	0.8090 -	val_loss:	0.4962 -	val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step -	· loss:	0.4217 -	accuracy:	0.8056 -	val_loss:	0.4963 -	· val_accuracy:	0.7708
18/18	304/1500 [===================================] -	0s	4ms/step -	· loss:	0.4216 -	accuracy:	0.8056 -	val_loss:	0.4963	val_accuracy:	0.7708
	305/1500	1 -	0s	4ms/step -	loss:	0.4216 -	accuracv:	0.8056 -	val loss:	0.4964	· val_accuracv:	0.7708
Epoch	306/1500						-		_			
Epoch	[=======] 307/1500											
	[========] 308/1500] -	0s	4ms/step -	loss:	0.4214 -	accuracy:	0.8073 -	val_loss:	0.4965	· val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step -	· loss:	0.4213 -	accuracy:	0.8073 -	val_loss:	0.4965 -	val_accuracy:	0.7708
18/18	309/1500] -	0s	4ms/step -	· loss:	0.4213 -	accuracy:	0.8073 -	val_loss:	0.4965	val_accuracy:	0.7708
18/18	310/1500 [========]] -	0s	4ms/step -	· loss:	0.4213 -	accuracy:	0.8056 -	val_loss:	0.4966	· val_accuracy:	0.7708
Epoch	311/1500						-		_			
Epoch	312/1500						-		_			
Epoch	[=====================================						-		_			
18/18	[======] 314/1500] -	0s	4ms/step -	· loss:	0.4211 -	accuracy:	0.8090 -	val_loss:	0.4967 -	val_accuracy:	0.7708
18/18	[======================================] -	0s	4ms/step -	· loss:	0.4211 -	accuracy:	0.8056 -	val_loss:	0.4968	val_accuracy:	0.7708
	315/1500] -	0s	4ms/step -	· loss:	0.4210 -	accuracy:	0.8090 -	val_loss:	0.4968	· val_accuracy:	0.7708
Epoch	316/1500											
Epoch	317/1500											
Epoch	[=======] 318/1500											
	[]] -	0s	4ms/step -	· loss:	0.4208 -	accuracy:	0.8073 -	val_loss:	0.4970	val_accuracy:	0.7708
Epoch 18/18	319/1500] -	0s	4ms/step -	· loss:	0.4208 -	accuracy:	0.8108 -	val_loss:	0.4970	val_accuracy:	0.7708
Epoch 18/18 Epoch	319/1500						-		_			

	321/1500	۱ -	as	5ms/sten	- loss:	0 4206 -	accuracy:	a 809a -	· val loss:	0 4971 -	· val accuracy:	0 7708
Epoch	322/1500						-		_			
Epoch	[========] 323/1500											
	[========] 324/1500	-	0s	4ms/step	- loss:	0.4206 -	accuracy:	0.8090 -	· val_loss:	0.4972 -	· val_accuracy:	0.7656
	[=======] 325/1500	-	0s	4ms/step	- loss:	0.4205 -	accuracy:	0.8108 -	val_loss:	0.4972 -	val_accuracy:	0.7656
18/18	[=======] 326/1500	-	0s	4ms/step	- loss:	0.4205 -	accuracy:	0.8108 -	val_loss:	0.4972 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4204 -	accuracy:	0.8108 -	val_loss:	0.4973	val_accuracy:	0.7656
18/18	327/1500 [======]	-	0s	4ms/step	- loss:	0.4203 -	accuracy:	0.8108 -	val_loss:	0.4973	val_accuracy:	0.7656
	328/1500 [=======]	-	0s	4ms/step	- loss:	0.4203 -	accuracy:	0.8108 -	val_loss:	0.4974	val_accuracy:	0.7656
	329/1500	-	0s	5ms/step	- loss:	0.4203 -	accuracy:	0.8108 -	- val loss:	0.4974 -	· val accuracy:	0.7656
Epoch	330/1500						-		_			
Epoch	331/1500 [=======]											
Epoch	332/1500						-		_			
	[========] 333/1500	-	0s	4ms/step	- loss:	0.4202 -	accuracy:	0.8108 -	· val_loss:	0.4976	· val_accuracy:	0.7656
	[========] 334/1500	-	0s	4ms/step	- loss:	0.4201 -	accuracy:	0.8108 -	· val_loss:	0.4977 -	· val_accuracy:	0.7656
	[======] 335/1500	-	0s	5ms/step	- loss:	0.4201 -	accuracy:	0.8108 -	val_loss:	0.4977 -	val_accuracy:	0.7656
18/18	[=======] 336/1500	-	0s	5ms/step	- loss:	0.4200 -	accuracy:	0.8108 -	val_loss:	0.4978 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4200 -	accuracy:	0.8090 -	val_loss:	0.4978	val_accuracy:	0.7656
18/18	337/1500 []	-	0s	4ms/step	- loss:	0.4199 -	accuracy:	0.8108 -	- val_loss:	0.4979	val_accuracy:	0.7656
	338/1500	-	0s	4ms/step	- loss:	0.4199 -	accuracy:	0.8090 -	- val_loss:	0.4979	· val_accuracy:	0.7656
Epoch	339/1500 [======]											
Epoch	340/1500											
Epoch	[======] 341/1500											
Epoch	[========] 342/1500						-		_			
	[=========] 343/1500	-	0s	4ms/step	- loss:	0.4197 -	accuracy:	0.8108 -	val_loss:	0.4981 -	· val_accuracy:	0.7656
	[======] 344/1500	-	0s	4ms/step	- loss:	0.4196 -	accuracy:	0.8108 -	val_loss:	0.4982 -	val_accuracy:	0.7656
18/18	[======] 345/1500	-	0s	5ms/step	- loss:	0.4195 -	accuracy:	0.8108 -	val_loss:	0.4982 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4196 -	accuracy:	0.8108 -	val_loss:	0.4983	val_accuracy:	0.7656
18/18	346/1500 []	-	0s	4ms/step	- loss:	0.4195 -	accuracy:	0.8108 -	- val_loss:	0.4983	val_accuracy:	0.7656
	347/1500	-	0s	4ms/step	- loss:	0.4195 -	accuracy:	0.8108 -	val_loss:	0.4984	val_accuracy:	0.7656
	348/1500	-	0s	4ms/step	- loss:	0.4195 -	accuracy:	0.8090 -	- val loss:	0.4985 -	· val accuracy:	0.7708
Epoch	349/1500 [======]											
Epoch	350/1500 [======]											
Epoch	351/1500						-		_			
Epoch	[=======] 352/1500						-		_			
	[========] 353/1500	-	0s	4ms/step	- loss:	0.4193 -	accuracy:	0.8108 -	· val_loss:	0.4987 -	· val_accuracy:	0.7708
	[=======] 354/1500	-	0s	4ms/step	- loss:	0.4193 -	accuracy:	0.8090 -	val_loss:	0.4987 -	val_accuracy:	0.7708
18/18	[=======] 355/1500	-	0s	4ms/step	- loss:	0.4192 -	accuracy:	0.8108 -	val_loss:	0.4988	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4191 -	accuracy:	0.8090 -	val_loss:	0.4988	val_accuracy:	0.7708
18/18	356/1500 [=======]	-	0s	4ms/step	- loss:	0.4191 -	accuracy:	0.8090 -	- val_loss:	0.4989	val_accuracy:	0.7708
	357/1500 [==========]	-	0s	5ms/step	- loss:	0.4190 -	accuracy:	0.8108 -	val_loss:	0.4989	val_accuracy:	0.7708
	358/1500	-	0s	4ms/step	- loss:	0.4190 -	accuracy:	0.8108 -	- val_loss:	0.4990	· val_accuracy:	0.7708
	359/1500 [======]	· -	0s	4ms/step	- loss:	0.4189 -	accuracy:	0.8090 -	- val loss:	0.4990 -	- val accuracv:	0.7708
Epoch	360/1500 [=======]						-		_			
Epoch	361/1500						-		_			
Epoch	[=======] 362/1500											
	[=========] 363/1500	-	0s	4ms/step	- loss:	0.4188 -	accuracy:	0.8090 -	· val_loss:	0.4992 -	· val_accuracy:	0.7708
	[======] 364/1500	-	0s	5ms/step	- loss:	0.4188 -	accuracy:	0.8073 -	· val_loss:	0.4992	val_accuracy:	0.7708
18/18	[======] 365/1500	-	0s	4ms/step	- loss:	0.4188 -	accuracy:	0.8073 -	val_loss:	0.4993	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4187 -	accuracy:	0.8073 -	val_loss:	0.4993	val_accuracy:	0.7708
18/18	366/1500	-	0s	4ms/step	- loss:	0.4187 -	accuracy:	0.8073 -	val_loss:	0.4994	val_accuracy:	0.7708
18/18	367/1500 []	-	0s	4ms/step	- loss:	0.4186 -	accuracy:	0.8073 -	- val_loss:	0.4994	val_accuracy:	0.7708
	368/1500	-	0s	4ms/step	- loss:	0.4186 -	accuracy:	0.8090 -	- val_loss:	0.4995	· val_accuracy:	0.7708
	369/1500	-	0s	4ms/step	- loss:	0.4186 -	accuracy:	0.8073 -	- val loss:	0.4995 -	· val accuracy:	0.7708
Epoch	370/1500 [=======]						-		_			
Epoch	371/1500											
Epoch	[========] 372/1500											
	[========] 373/1500	-	0s	4ms/step	- loss:	0.4185 -	accuracy:	0.8073 -	val_loss:	0.4997 -	· val_accuracy:	0.7708
	[======] 374/1500	-	0s	4ms/step	- loss:	0.4184 -	accuracy:	0.8073 -	val_loss:	0.4998 -	val_accuracy:	0.7708
18/18	[=======] 375/1500	-	0s	4ms/step	- loss:	0.4184 -	accuracy:	0.8090 -	val_loss:	0.4998 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4184 -	accuracy:	0.8073 -	val_loss:	0.4999 -	val_accuracy:	0.7708
18/18	376/1500 []	-	0s	4ms/step	- loss:	0.4183 -	accuracy:	0.8073 -	- val_loss:	0.4999	val_accuracy:	0.7708
18/18	377/1500 [=======]	-	0s	4ms/step	- loss:	0.4183 -	accuracy:	0.8073 -	- val_loss:	0.4999	· val_accuracy:	0.7708
Epoch	378/1500 [=======]						-		_			
Epoch	[] 379/1500 []											
Epoch	380/1500											
Epoch	[======] 381/1500						-		_			
	[======] 382/1500	-	0s	5ms/step	- loss:	0.4182 -	accuracy:	0.8073 -	val_loss:	0.5001 -	· val_accuracy:	0.7708
18/18	[======] 383/1500	-	0s	4ms/step	- loss:	0.4181 -	accuracy:	0.8073 -	val_loss:	0.5001	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4180 -	accuracy:	0.8073 -	val_loss:	0.5002 -	val_accuracy:	0.7708
	384/1500 [======]	-	0s	4ms/step	- loss:	0.4180 -	accuracy:	0.8073 -	val_loss:	0.5003 -	· val_accuracy:	0.7708

	385/1500		0-	F (-t	1	0.4400		0.0073		0 5003		0 7700
Epoch	[========] 386/1500						-		_			
	[=========] 387/1500	-	0s	4ms/step	- loss:	0.4180 -	accuracy:	0.8073	- val_loss:	0.5004	· val_accuracy:	0.7708
	[=========]	-	0s	4ms/step	- loss:	0.4179 -	accuracy:	0.8073	- val_loss:	0.5004	· val_accuracy:	0.7708
18/18	388/1500 [=======]	-	0s	5ms/step	- loss:	0.4179 -	accuracy:	0.8073	- val_loss:	0.5005 -	val_accuracy:	0.7708
	389/1500 []	-	0s	4ms/step	- loss:	0.4178 -	accuracy:	0.8073	- val_loss:	0.5005 -	· val_accuracy:	0.7708
	390/1500 [=======]	۱ -	۵s	Ams/sten	- loss:	0 4177 -	accuracy:	0 8073 -	- val loss:	0 5006 -	val accuracy:	0 7708
Epoch	391/1500						-		_			
	[============] 392/1500	-	0s	4ms/step	- loss:	0.4177 -	accuracy:	0.8073	- val_loss:	0.5006 -	· val_accuracy:	0.7708
18/18	[========] 393/1500	-	0s	4ms/step	- loss:	0.4176 -	accuracy:	0.8073	- val_loss:	0.5007	· val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4176 -	accuracy:	0.8073	- val_loss:	0.5007 -	val_accuracy:	0.7708
	394/1500 []	-	0s	4ms/step	- loss:	0.4176 -	accuracy:	0.8090	- val_loss:	0.5007 -	· val_accuracy:	0.7708
	395/1500 []	۱ -	0s	4ms/sten	- loss:	0.4176 -	accuracy:	0.8090	- val loss:	0.5008 -	· val accuracy:	0.7708
Epoch	396/1500											
	[=========] 397/1500	-	05	Sms/step	- 1055:	0.41/5 -	accuracy:	0.8090	- vai_ioss:	0.5008	· vai_accuracy:	0.7708
	[==========] 398/1500	-	0s	4ms/step	- loss:	0.4175 -	accuracy:	0.8090	- val_loss:	0.5009 -	· val_accuracy:	0.7708
18/18	[=======] 399/1500	-	0s	5ms/step	- loss:	0.4175 -	accuracy:	0.8090	- val_loss:	0.5009 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4173 -	accuracy:	0.8090	- val_loss:	0.5009	val_accuracy:	0.7708
	400/1500 [========]	-	0s	5ms/step	- loss:	0.4173 -	accuracy:	0.8090	- val_loss:	0.5010 -	· val_accuracy:	0.7708
Epoch	401/1500 [======]						-		_			
Epoch	402/1500						-		_			
	[=====================================	-	0s	4ms/step	- loss:	0.4174 -	accuracy:	0.8090	- val_loss:	0.5010 -	· val_accuracy:	0.7708
18/18	[=======] 404/1500	-	0s	4ms/step	- loss:	0.4172 -	accuracy:	0.8090	- val_loss:	0.5011 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4172 -	accuracy:	0.8090	- val_loss:	0.5011 -	val_accuracy:	0.7708
18/18	405/1500 [=======]	-	0s	4ms/step	- loss:	0.4172 -	accuracy:	0.8090	- val_loss:	0.5012	val_accuracy:	0.7708
	406/1500 [=======]	-	0.5	4ms/sten	- loss:	0.4172 -	accuracy	0.8090	- val loss:	0.5012 -	· val accuracy:	0.7708
Epoch	407/1500 [=======]						-		_			
Epoch	408/1500						-		_			
	[=====================================	-	0s	4ms/step	- loss:	0.4171 -	accuracy:	0.8090	- val_loss:	0.5013 -	· val_accuracy:	0.7708
	[=======] 410/1500	-	0s	4ms/step	- loss:	0.4170 -	accuracy:	0.8090	- val_loss:	0.5014	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4170 -	accuracy:	0.8090	- val_loss:	0.5014 -	val_accuracy:	0.7708
	411/1500 []	-	0s	4ms/step	- loss:	0.4169 -	accuracy:	0.8090	- val_loss:	0.5015 -	val_accuracy:	0.7708
	412/1500 []	ı -	0s	5ms/step	- loss:	0.4168 -	accuracy:	0.8090	- val loss:	0.5015 -	· val accuracv:	0.7708
Epoch	413/1500											
Epoch	[=======] 414/1500											
	[=====================================	-	0s	5ms/step	- loss:	0.4168 -	accuracy:	0.8090	- val_loss:	0.5016 -	· val_accuracy:	0.7708
18/18	[=======] 416/1500	-	0s	6ms/step	- loss:	0.4168 -	accuracy:	0.8090	- val_loss:	0.5016	val_accuracy:	0.7708
18/18	[]	-	0s	6ms/step	- loss:	0.4167 -	accuracy:	0.8090	- val_loss:	0.5017 -	val_accuracy:	0.7708
	417/1500 [========]	-	0s	5ms/step	- loss:	0.4166 -	accuracy:	0.8090	- val_loss:	0.5017	val_accuracy:	0.7708
	418/1500 []	l -	0s	7ms/step	- loss:	0.4166 -	accuracy:	0.8090	- val loss:	0.5018 -	· val accuracv:	0.7708
Epoch	419/1500 [=======]											
Epoch	420/1500						-		_			
	[=====================================	-	0s	6ms/step	- loss:	0.4165 -	accuracy:	0.8090	- val_loss:	0.5018 -	· val_accuracy:	0.7708
	[=======] 422/1500	-	0s	6ms/step	- loss:	0.4166 -	accuracy:	0.8090	- val_loss:	0.5019	val_accuracy:	0.7708
18/18	[]	-	0s	6ms/step	- loss:	0.4164 -	accuracy:	0.8090	- val_loss:	0.5019 -	val_accuracy:	0.7708
	423/1500 [==========]	-	0s	7ms/step	- loss:	0.4164 -	accuracy:	0.8090	- val_loss:	0.5019	val_accuracy:	0.7708
	424/1500 [========]	ı -	0s	6ms/step	- loss:	0.4164 -	accuracy:	0.8090	- val loss:	0.5019 -	· val accuracv:	0.7708
Epoch	425/1500 [=======]						-		_			
Epoch	426/1500											
	[=====================================	-	0s	6ms/step	- loss:	0.4162 -	accuracy:	0.8090	- val_loss:	0.5020	· val_accuracy:	0.7708
18/18	[========] 428/1500	-	0s	7ms/step	- loss:	0.4161 -	accuracy:	0.8108	- val_loss:	0.5021 -	val_accuracy:	0.7708
18/18	[]	-	0s	7ms/step	- loss:	0.4161 -	accuracy:	0.8090	- val_loss:	0.5021 -	val_accuracy:	0.7708
18/18	429/1500 [=======]	-	0s	6ms/step	- loss:	0.4160 -	accuracy:	0.8090	- val_loss:	0.5021 -	val_accuracy:	0.7708
	430/1500 [=======]	-	0s	5ms/step	- loss:	0.4160 -	accuracv:	0.8073	- val loss:	0.5022 -	· val_accuracv:	0.7708
Epoch	431/1500 [=======]						-		_			
Epoch	432/1500						-		_			
Epoch	[=====================================						-		_			
18/18	[========] 434/1500	-	0s	5ms/step	- loss:	0.4159 -	accuracy:	0.8090	- val_loss:	0.5023 -	val_accuracy:	0.7708
18/18	[]	-	0s	6ms/step	- loss:	0.4159 -	accuracy:	0.8090	- val_loss:	0.5023 -	val_accuracy:	0.7708
18/18	435/1500 [=======]	-	0s	6ms/step	- loss:	0.4158 -	accuracy:	0.8073	- val_loss:	0.5024	val_accuracy:	0.7708
	436/1500 [========]	ı -	0s	6ms/step	- loss:	0.4157 -	accuracy:	0.8090	- val loss:	0.5024 -	· val accuracv:	0.7708
Epoch	437/1500						-		_			
	[=======] 438/1500	-	05	ьms/step	- 1055:	0.415/ -	accuracy:	0.8090	- vai_ioss:	0.5025	· vai_accuracy:	0.7708
	[=======] 439/1500	-	0s	7ms/step	- loss:	0.4157 -	accuracy:	0.8073	- val_loss:	0.5025 -	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4156 -	accuracy:	0.8073	- val_loss:	0.5026	val_accuracy:	0.7708
18/18	440/1500 [========]	-	0s	6ms/step	- loss:	0.4156 -	accuracy:	0.8090	- val_loss:	0.5026	val_accuracy:	0.7708
Epoch	441/1500 [=======]						-		_			
Epoch	442/1500											
Epoch	[=======] 443/1500											
18/18	[=======] 444/1500	-	0s	6ms/step	- loss:	0.4155 -	accuracy:	0.8073	- val_loss:	0.5027	· val_accuracy:	0.7760
18/18	[=======] 445/1500	-	0s	6ms/step	- loss:	0.4154 -	accuracy:	0.8073	- val_loss:	0.5028 -	val_accuracy:	0.7760
18/18	[]	-	0s	5ms/step	- loss:	0.4154 -	accuracy:	0.8090	- val_loss:	0.5028 -	val_accuracy:	0.7760
	446/1500 []	-	0s	7ms/step	- loss:	0.4153 -	accuracy:	0.8090	- val_loss:	0.5028 -	· val_accuracy:	0.7760
Epoch	447/1500 [=======]						-		_			
Epoch	448/1500						-		_			
18/18	[]	-	0s	7ms/step	- loss:	0.4152 -	accuracy:	0.8073	- val_loss:	0.5029 -	val_accuracy:	0.7760

	449/1500 [=======]	_	as	6ms/sten	- loss.	0 4152 -	accuracy:	0 8090 -	val loss:	0 5029 -	· val accuracy:	0 7760
Epoch	450/1500						-		_			
Epoch	[=====================================											
	[=========] 452/1500	-	0s	7ms/step	- loss:	0.4152 -	accuracy:	0.8108 -	val_loss:	0.5030 -	· val_accuracy:	0.7760
18/18	[======] 453/1500	-	0s	4ms/step	- loss:	0.4150 -	accuracy:	0.8090 -	val_loss:	0.5030 -	val_accuracy:	0.7760
18/18	[]	-	0s	4ms/step	- loss:	0.4151 -	accuracy:	0.8108 -	val_loss:	0.5030 -	val_accuracy:	0.7760
18/18	454/1500 [==========]	-	0s	4ms/step	- loss:	0.4150 -	accuracy:	0.8090 -	val_loss:	0.5031	val_accuracy:	0.7760
	455/1500 [=======]	_	0s	4ms/step	- loss:	0.4149 -	accuracy:	0.8108 -	val loss:	0.5031 -	· val accuracy:	0.7760
Epoch	456/1500 [=======]						-		_			
Epoch	457/1500											
	[=======] 458/1500	-	0s	5ms/step	- loss:	0.4149 -	accuracy:	0.8090 -	· val_loss:	0.5031 -	· val_accuracy:	0.7760
	[======] 459/1500	-	0s	4ms/step	- loss:	0.4149 -	accuracy:	0.8090 -	val_loss:	0.5032 -	val_accuracy:	0.7760
18/18	[=======] 460/1500	-	0s	5ms/step	- loss:	0.4148 -	accuracy:	0.8125 -	val_loss:	0.5032 -	val_accuracy:	0.7760
18/18	[]	-	0s	4ms/step	- loss:	0.4148 -	accuracy:	0.8108 -	val_loss:	0.5032	val_accuracy:	0.7760
	461/1500 []	_	0s	5ms/step	- loss:	0.4147 -	accuracy:	0.8125 -	val_loss:	0.5032 -	· val_accuracy:	0.7760
	462/1500 [======]	_	9s	5ms/sten	- loss:	0.4147 -	accuracy:	0.8125 -	val loss:	0.5033 -	· val accuracy:	0.7760
Epoch	463/1500						-		_			
Epoch	[=====================================						-		_			
	[=======] 465/1500	-	0s	5ms/step	- loss:	0.4146 -	accuracy:	0.8125 -	val_loss:	0.5033 -	· val_accuracy:	0.7760
18/18	[=======] 466/1500	-	0s	4ms/step	- loss:	0.4145 -	accuracy:	0.8125 -	val_loss:	0.5034	val_accuracy:	0.7760
18/18	[]	-	0s	5ms/step	- loss:	0.4145 -	accuracy:	0.8125 -	val_loss:	0.5034 -	val_accuracy:	0.7760
	467/1500 []	-	0s	4ms/step	- loss:	0.4145 -	accuracy:	0.8108 -	val_loss:	0.5034	val_accuracy:	0.7760
	468/1500 []	_	0s	5ms/step	- loss:	0.4144 -	accuracy:	0.8142 -	val_loss:	0.5035 -	· val_accuracy:	0.7760
Epoch	469/1500 [=======]											
Epoch	470/1500											
Epoch	[=====================================						-		_			
	[========] 472/1500	-	0s	4ms/step	- loss:	0.4144 -	accuracy:	0.8142 -	val_loss:	0.5035 -	· val_accuracy:	0.7760
	[=====================================	-	0s	4ms/step	- loss:	0.4142 -	accuracy:	0.8142 -	val_loss:	0.5035	val_accuracy:	0.7760
18/18	[]	-	0s	5ms/step	- loss:	0.4142 -	accuracy:	0.8142 -	val_loss:	0.5036 -	val_accuracy:	0.7760
18/18	474/1500 [========]	-	0s	5ms/step	- loss:	0.4141 -	accuracy:	0.8142 -	val_loss:	0.5036	val_accuracy:	0.7760
	475/1500 []	_	0s	5ms/step	- loss:	0.4141 -	accuracy:	0.8142 -	val_loss:	0.5037 -	· val_accuracy:	0.7760
Epoch	476/1500 [=======]											
Epoch	477/1500											
Epoch	[=====================================											
	[========] 479/1500	-	0s	5ms/step	- loss:	0.4140 -	accuracy:	0.8142 -	val_loss:	0.5038 -	· val_accuracy:	0.7760
	[=======] 480/1500	-	0s	4ms/step	- loss:	0.4139 -	accuracy:	0.8142 -	val_loss:	0.5038 -	val_accuracy:	0.7760
18/18	[======] 481/1500	-	0s	4ms/step	- loss:	0.4139 -	accuracy:	0.8142 -	val_loss:	0.5039	val_accuracy:	0.7760
18/18	[======]	-	0s	4ms/step	- loss:	0.4138 -	accuracy:	0.8142 -	val_loss:	0.5039	val_accuracy:	0.7708
	482/1500 [=======]	_	0s	4ms/step	- loss:	0.4139 -	accuracy:	0.8142 -	val_loss:	0.5040	· val_accuracy:	0.7708
Epoch	483/1500 [=======]											
Epoch	484/1500											
Epoch	[=======] 485/1500											
	[=====================================	-	0s	5ms/step	- loss:	0.4137 -	accuracy:	0.8142 -	· val_loss:	0.5041 -	· val_accuracy:	0.7708
	[======] 487/1500	-	0s	5ms/step	- loss:	0.4137 -	accuracy:	0.8160 -	val_loss:	0.5041 -	· val_accuracy:	0.7708
	[========] 488/1500	-	0s	5ms/step	- loss:	0.4136 -	accuracy:	0.8142 -	val_loss:	0.5042	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4136 -	accuracy:	0.8142 -	val_loss:	0.5042	val_accuracy:	0.7708
18/18	489/1500 []	-	0s	4ms/step	- loss:	0.4136 -	accuracy:	0.8160 -	val_loss:	0.5042	val_accuracy:	0.7708
	490/1500	_	0s	4ms/step	- loss:	0.4135 -	accuracy:	0.8160 -	val loss:	0.5043 -	· val accuracy:	0.7708
Epoch	491/1500 [=======]											
Epoch	492/1500											
Epoch	[=====================================											
	[=====================================	-	0s	5ms/step	- loss:	0.4134 -	accuracy:	0.8160 -	val_loss:	0.5044	· val_accuracy:	0.7708
	[=======] 495/1500	-	0s	5ms/step	- loss:	0.4133 -	accuracy:	0.8160 -	val_loss:	0.5044	val_accuracy:	0.7708
18/18	[=======] 496/1500	-	0s	4ms/step	- loss:	0.4133 -	accuracy:	0.8160 -	val_loss:	0.5044	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4132 -	accuracy:	0.8177 -	val_loss:	0.5045	val_accuracy:	0.7760
18/18	497/1500 []	-	0s	4ms/step	- loss:	0.4132 -	accuracy:	0.8160 -	val_loss:	0.5045	val_accuracy:	0.7760
	498/1500	_	0s	4ms/step	- loss:	0.4131 -	accuracy:	0.8160 -	val loss:	0.5045 -	· val accuracy:	0.7760
Epoch	499/1500 [=======]											
Epoch	500/1500											
Epoch	[=====================================											
	[======] 502/1500	-	0s	4ms/step	- loss:	0.4130 -	accuracy:	0.8160 -	val_loss:	0.5047 -	· val_accuracy:	0.7760
18/18	[=======] 503/1500	-	0s	4ms/step	- loss:	0.4130 -	accuracy:	0.8160 -	val_loss:	0.5047	· val_accuracy:	0.7760
18/18	[]	-	0s	4ms/step	- loss:	0.4129 -	accuracy:	0.8160 -	val_loss:	0.5048	· val_accuracy:	0.7760
18/18	504/1500 [=======]	-	0s	4ms/step	- loss:	0.4129 -	accuracy:	0.8160 -	val_loss:	0.5048	· val_accuracy:	0.7760
18/18	505/1500 [=======]	-	0s	4ms/step	- loss:	0.4128 -	accuracy:	0.8160 -	val_loss:	0.5048 -	· val_accuracy:	0.7760
Epoch	506/1500 [=======]											
Epoch	507/1500											
Epoch	[======] 508/1500											
Epoch	[=====================================											
18/18	[=======] 510/1500	-	0s	5ms/step	- loss:	0.4127 -	accuracy:	0.8160 -	val_loss:	0.5050	val_accuracy:	0.7760
18/18	[]	-	0s	5ms/step	- loss:	0.4126 -	accuracy:	0.8160 -	val_loss:	0.5050	· val_accuracy:	0.7760
18/18	511/1500 [======]	-	0s	4ms/step	- loss:	0.4125 -	accuracy:	0.8160 -	val_loss:	0.5051 -	val_accuracy:	0.7760
	512/1500 []	_	0s	5ms/step	- loss:	0.4125 -	accuracy:	0.8160 -	val_loss:	0.5051	· val_accuracv:	0.7760
	,								- '			

-p	513/1500	,	Qc.	Ams/ston	locci	0 4125	accupacy:	0 9160	val loss:	0 5052	val accumacy:	0 7760
Epoch	514/1500						-		_			
Epoch	[=====================================											
	[=====================================] -	0s	5ms/step	- loss:	0.4124 -	accuracy:	0.8160 -	val_loss:	0.5053 -	· val_accuracy:	0.7760
	[=======] 517/1500] -	0s	4ms/step	- loss:	0.4123 -	accuracy:	0.8142 -	val_loss:	0.5053 -	val_accuracy:	0.7760
18/18	[========] 518/1500] -	0s	5ms/step	- loss:	0.4123 -	accuracy:	0.8142 -	val_loss:	0.5053	val_accuracy:	0.7760
18/18	[]] -	0s	5ms/step	- loss:	0.4123 -	accuracy:	0.8160 -	val_loss:	0.5054	val_accuracy:	0.7760
18/18	519/1500 [=======]] -	0s	5ms/step	- loss:	0.4122 -	accuracy:	0.8142 -	val_loss:	0.5054	val_accuracy:	0.7760
	520/1500 [=======]] -	0s	5ms/step	- loss:	0.4122 -	accuracy:	0.8177 -	val_loss:	0.5055 -	val_accuracy:	0.7708
	521/1500	1 -	0s	5ms/step	- loss:	0.4121 -	accuracy:	0.8177 -	val loss:	0.5055 -	· val accuracy:	0.7708
Epoch	522/1500 [======]											
Epoch	523/1500 []											
Epoch	524/1500											
	[=====================================] -	0s	4ms/step	- loss:	0.4119 -	accuracy:	0.8160 -	val_loss:	0.5057 -	· val_accuracy:	0.7708
	[=========] 526/1500] -	0s	4ms/step	- loss:	0.4120 -	accuracy:	0.8160 -	val_loss:	0.5057 -	· val_accuracy:	0.7708
18/18	[=====================================] -	0s	5ms/step	- loss:	0.4119 -	accuracy:	0.8177 -	val_loss:	0.5058 -	val_accuracy:	0.7656
18/18	[=======] 528/1500] -	0s	4ms/step	- loss:	0.4119 -	accuracy:	0.8160 -	val_loss:	0.5058 -	val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step	- loss:	0.4118 -	accuracy:	0.8160 -	val_loss:	0.5059	val_accuracy:	0.7708
18/18	529/1500 []] -	0s	5ms/step	- loss:	0.4118 -	accuracy:	0.8142 -	val_loss:	0.5059	val_accuracy:	0.7708
	530/1500] -	0s	4ms/step	- loss:	0.4119 -	accuracy:	0.8177 -	val_loss:	0.5059	· val_accuracy:	0.7656
Epoch	531/1500 [=======]											
Epoch	532/1500											
Epoch	[======] 533/1500											
Epoch	[======] 534/1500											
	[=====================================] -	0s	5ms/step	- loss:	0.4116 -	accuracy:	0.8160 -	val_loss:	0.5062 -	· val_accuracy:	0.7656
	[=======] 536/1500] -	0s	5ms/step	- loss:	0.4116 -	accuracy:	0.8160 -	val_loss:	0.5063 -	val_accuracy:	0.7656
18/18	[=======] 537/1500] -	0s	4ms/step	- loss:	0.4116 -	accuracy:	0.8194 -	val_loss:	0.5063 -	val_accuracy:	0.7656
18/18	[]] -	0s	4ms/step	- loss:	0.4114 -	accuracy:	0.8160 -	val_loss:	0.5064	val_accuracy:	0.7656
18/18	538/1500 [=======]] -	0s	4ms/step	- loss:	0.4114 -	accuracy:	0.8160 -	val_loss:	0.5064	val_accuracy:	0.7656
	539/1500 []] -	0s	5ms/step	- loss:	0.4114 -	accuracy:	0.8160 -	val_loss:	0.5065 -	val_accuracy:	0.7656
	540/1500 [=======]	1 -	0s	4ms/step	- loss:	0.4113 -	accuracy:	0.8177 -	val loss:	0.5066 -	· val accuracv:	0.7656
Epoch	541/1500 [=======]											
Epoch	542/1500											
Epoch	[======] 543/1500						-		_			
Epoch	[=====================================						-		_			
	[=====================================] -	0s	5ms/step	- loss:	0.4112 -	accuracy:	0.8160 -	val_loss:	0.5068 -	· val_accuracy:	0.7656
	[=======] 546/1500] -	0s	4ms/step	- loss:	0.4112 -	accuracy:	0.8160 -	val_loss:	0.5069	val_accuracy:	0.7656
18/18	[=======] 547/1500] -	0s	5ms/step	- loss:	0.4112 -	accuracy:	0.8160 -	val_loss:	0.5070	val_accuracy:	0.7656
18/18	[]] -	0s	4ms/step	- loss:	0.4112 -	accuracy:	0.8177 -	val_loss:	0.5070	val_accuracy:	0.7656
18/18	548/1500 [=======]] -	0s	5ms/step	- loss:	0.4111 -	accuracy:	0.8160 -	val_loss:	0.5071	val_accuracy:	0.7656
	549/1500 []] -	0s	5ms/step	- loss:	0.4110 -	accuracy:	0.8177 -	val_loss:	0.5071	val_accuracy:	0.7708
	550/1500 []] -	0s	4ms/step	- loss:	0.4110 -	accuracy:	0.8177 -	val_loss:	0.5072	· val_accuracy:	0.7708
	551/1500 [======]	1 -	0s	5ms/step	- loss:	0.4110 -	accuracy:	0.8160 -	val loss:	0.5073 -	· val accuracy:	0.7708
Epoch	552/1500 [======]						-		_			
Epoch	553/1500 [======]						-		_			
Epoch	554/1500											
Epoch	[=====================================											
	[=====================================] -	0s	4ms/step	- loss:	0.4109 -	accuracy:	0.8160 -	val_loss:	0.5076	· val_accuracy:	0.7708
	[=======] 557/1500] -	0s	5ms/step	- loss:	0.4109 -	accuracy:	0.8177 -	val_loss:	0.5076	val_accuracy:	0.7708
18/18	[========] 558/1500] -	0s	5ms/step	- loss:	0.4108 -	accuracy:	0.8177 -	val_loss:	0.5077	val_accuracy:	0.7708
18/18	[======] 559/1500] -	0s	5ms/step	- loss:	0.4109 -	accuracy:	0.8177 -	val_loss:	0.5078	val_accuracy:	0.7708
18/18	[]] -	0s	5ms/step	- loss:	0.4108 -	accuracy:	0.8177 -	val_loss:	0.5078 -	val_accuracy:	0.7708
18/18	560/1500 []] -	0s	5ms/step	- loss:	0.4107 -	accuracy:	0.8160 -	val_loss:	0.5079	val_accuracy:	0.7708
	561/1500 [=======]] -	0s	4ms/step	- loss:	0.4108 -	accuracy:	0.8160 -	val_loss:	0.5080 -	val_accuracy:	0.7708
	562/1500 []	1 -	0s	4ms/step	- loss:	0.4106 -	accuracy:	0.8177 -	val loss:	0.5080 -	· val accuracy:	0.7708
Epoch	563/1500 [=======]											
Epoch	564/1500											
Epoch	[======] 565/1500											
	[=======] 566/1500	-	0s	4ms/step	- loss:	0.4105 -	accuracy:	0.8177 -	· val_loss:	0.5082 -	· val_accuracy:	0.7708
	[======] 567/1500	-	0s	5ms/step	- loss:	0.4105 -	accuracy:	0.8177 -	val_loss:	0.5083 -	· val_accuracy:	0.7708
18/18	[=======] 568/1500] -	0s	5ms/step	- loss:	0.4105 -	accuracy:	0.8160 -	val_loss:	0.5084	val_accuracy:	0.7708
18/18	[]] -	0s	6ms/step	- loss:	0.4105 -	accuracy:	0.8142 -	val_loss:	0.5084	val_accuracy:	0.7708
18/18	569/1500 []] -	0s	7ms/step	- loss:	0.4105 -	accuracy:	0.8177 -	val_loss:	0.5085	val_accuracy:	0.7708
18/18	570/1500 [=======]] -	0s	6ms/step	- loss:	0.4105 -	accuracy:	0.8160 -	val_loss:	0.5085	· val_accuracy:	0.7708
Epoch	571/1500 [=======]											
Epoch	572/1500 [======]											
Epoch	573/1500											
Epoch	[======] 574/1500											
Epoch	[=====================================						-		_			
	[======] 576/1500] -	0s	6ms/step	- loss:	0.4103 -	accuracy:	0.8160 -	val_loss:	0.5088 -	val_accuracy:	0.7708
	[======]] -	0s	5ms/step	- loss:	0.4103 -	accuracy:	0.8160 -	val_loss:	0.5089	val_accuracy:	0.7708

	577/1500											
	[=====================================] -	0s	6ms/step	- loss:	0.4102 -	accuracy:	0.8142 -	val_loss:	0.5089	- val_accuracy:	0.7708
	[=====================================] -	0s	6ms/step	- loss:	0.4102 -	accuracy:	0.8160 -	val_loss:	0.5090	- val_accuracy:	0.7708
	[======================================] -	0s	5ms/step	- loss:	0.4102 -	accuracy:	0.8142 -	val_loss:	0.5091	- val_accuracy:	0.7708
18/18	[=====================================] -	0s	9ms/step	- loss:	0.4102 -	accuracy:	0.8125 -	val_loss:	0.5091	- val_accuracy:	0.7708
18/18	[] -	0s	7ms/step	- loss:	0.4101 -	accuracy:	0.8125 -	val_loss:	0.5092	- val_accuracy:	0.7708
18/18	582/1500 [] -	0s	5ms/step	- loss:	0.4101 -	accuracy:	0.8160 -	val_loss:	0.5092	- val_accuracy:	0.7708
	583/1500 [===================================] -	0s	6ms/step	- loss:	0.4101 -	accuracy:	0.8160 -	val_loss:	0.5093	- val_accuracy:	0.7708
	584/1500	1 -	0s	6ms/step	- loss:	0.4101 -	accuracy:	0.8125 -	val loss:	0.5093	- val accuracv:	0.7708
Epoch	585/1500 [=======						-		_			
Epoch	586/1500											
Epoch	[=====================================											
	[======================================] -	0s	5ms/step	- loss:	0.4100 -	accuracy:	0.8160 -	val_loss:	0.5095	- val_accuracy:	0.7708
	[=====================================] -	0s	8ms/step	- loss:	0.4100 -	accuracy:	0.8142 -	val_loss:	0.5095	- val_accuracy:	0.7708
	[======================================] -	0s	5ms/step	- loss:	0.4099 -	accuracy:	0.8125 -	val_loss:	0.5097	- val_accuracy:	0.7708
18/18	[======================================] -	0s	5ms/step	- loss:	0.4098 -	accuracy:	0.8142 -	val_loss:	0.5097	- val_accuracy:	0.7708
18/18	[]] -	0s	6ms/step	- loss:	0.4100 -	accuracy:	0.8125 -	val_loss:	0.5098	- val_accuracy:	0.7708
18/18	592/1500 [========] -	0s	7ms/step	- loss:	0.4099 -	accuracy:	0.8160 -	val_loss:	0.5098	- val_accuracy:	0.7708
	593/1500 [========] -	0s	6ms/step	- loss:	0.4099 -	accuracy:	0.8125 -	val_loss:	0.5099	- val_accuracy:	0.7708
	594/1500	1 -	0s	6ms/step	- loss:	0.4098 -	accuracy:	0.8125 -	val loss:	0.5099	- val accuracy:	0.7708
Epoch	595/1500 [========											
Epoch	596/1500											
Epoch	[=====================================											
Epoch	[=====================================											
Epoch	[=====================================						-		_			
	[======================================] -	0s	6ms/step	- loss:	0.4098 -	accuracy:	0.8142 -	val_loss:	0.5101	- val_accuracy:	0.7708
	[======================================] -	0s	6ms/step	- loss:	0.4097 -	accuracy:	0.8142 -	val_loss:	0.5102	<pre>- val_accuracy:</pre>	0.7708
18/18	[=====================================] -	0s	8ms/step	- loss:	0.4096 -	accuracy:	0.8125 -	val_loss:	0.5103	- val_accuracy:	0.7708
18/18	[======================================] -	0s	6ms/step	- loss:	0.4096 -	accuracy:	0.8125 -	val_loss:	0.5103	- val_accuracy:	0.7708
	603/1500 [] -	0s	7ms/step	- loss:	0.4096 -	accuracy:	0.8108 -	val_loss:	0.5103	- val_accuracy:	0.7708
	604/1500] -	0s	7ms/step	- loss:	0.4096 -	accuracy:	0.8125 -	val_loss:	0.5104	- val_accuracy:	0.7708
	605/1500] -	0s	6ms/step	- loss:	0.4096 -	accuracy:	0.8125 -	val_loss:	0.5105	- val_accuracy:	0.7708
Epoch	606/1500 [=======											
Epoch	607/1500 [=======						-		_			
Epoch	608/1500											
Epoch	[======================================											
	[======================================] -	0s	4ms/step	- loss:	0.4095 -	accuracy:	0.8142 -	val_loss:	0.5107	- val_accuracy:	0.7708
	[======================================] -	0s	5ms/step	- loss:	0.4094 -	accuracy:	0.8125 -	val_loss:	0.5107	- val_accuracy:	0.7708
	[======================================] -	0s	4ms/step	- loss:	0.4094 -	accuracy:	0.8125 -	val_loss:	0.5108	- val_accuracy:	0.7708
18/18	[=====================================] -	0s	4ms/step	- loss:	0.4094 -	accuracy:	0.8142 -	val_loss:	0.5108	- val_accuracy:	0.7708
18/18	[] -	0s	5ms/step	- loss:	0.4094 -	accuracy:	0.8142 -	val_loss:	0.5108	- val_accuracy:	0.7708
18/18	614/1500] -	0s	5ms/step	- loss:	0.4093 -	accuracy:	0.8125 -	val_loss:	0.5109	- val_accuracy:	0.7708
	615/1500 [===================================] -	0s	4ms/step	- loss:	0.4094 -	accuracy:	0.8142 -	val_loss:	0.5109	- val_accuracy:	0.7708
	616/1500] -	0s	4ms/step	- loss:	0.4093 -	accuracy:	0.8125 -	val_loss:	0.5110	- val_accuracy:	0.7708
	617/1500 [========	1 -	0s	4ms/step	- loss:	0.4093 -	accuracy:	0.8125 -	val loss:	0.5111	- val accuracv:	0.7708
Epoch	618/1500 [=======											
Epoch	619/1500											
Epoch	[=====================================											
Epoch	[=====================================											
Epoch	[=====================================											
18/18	[======================================] -	0s	4ms/step	- loss:	0.4092 -	accuracy:	0.8142 -	val_loss:	0.5114	- val_accuracy:	0.7708
18/18	[======================================] -	0s	4ms/step	- loss:	0.4091 -	accuracy:	0.8142 -	val_loss:	0.5114	- val_accuracy:	0.7708
18/18	[======================================] -	0s	4ms/step	- loss:	0.4091 -	accuracy:	0.8125 -	val_loss:	0.5114	- val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step	- loss:	0.4091 -	accuracy:	0.8142 -	val_loss:	0.5114	- val_accuracy:	0.7708
18/18	626/1500 [========] -	0s	4ms/step	- loss:	0.4091 -	accuracy:	0.8142 -	val_loss:	0.5115	- val_accuracy:	0.7708
	627/1500 [===================================] -	0s	4ms/step	- loss:	0.4091 -	accuracy:	0.8177 -	val_loss:	0.5115	- val_accuracy:	0.7708
	628/1500] -	0s	5ms/step	- loss:	0.4091 -	accuracy:	0.8142 -	val_loss:	0.5116	- val_accuracy:	0.7708
Epoch	629/1500 [========											
Epoch	630/1500											
Epoch	631/1500						-		_			
Epoch	[=====================================						-		_			
Epoch	[=====================================											
	[======================================] -	0s	4ms/step	- loss:	0.4088 -	accuracy:	0.8142 -	val_loss:	0.5118	- val_accuracy:	0.7708
18/18	[======================================] -	0s	4ms/step	- loss:	0.4088 -	accuracy:	0.8160 -	val_loss:	0.5118	- val_accuracy:	0.7708
18/18	[]] -	0s	4ms/step	- loss:	0.4089 -	accuracy:	0.8160 -	val_loss:	0.5119	- val_accuracy:	0.7708
18/18	636/1500 [===================================] -	0s	4ms/step	- loss:	0.4088 -	accuracy:	0.8142 -	val_loss:	0.5120	- val_accuracy:	0.7708
18/18	637/1500] -	0s	5ms/step	- loss:	0.4088 -	accuracy:	0.8142 -	val_loss:	0.5120	- val_accuracy:	0.7708
18/18	638/1500 [] -	0s	4ms/step	- loss:	0.4088 -	accuracy:	0.8142 -	val_loss:	0.5120	- val_accuracy:	0.7708
	639/1500 [========] -	0s	4ms/step	- loss:	0.4087 -	accuracy:	0.8160 -	val_loss:	0.5120	- val_accuracv:	0.7708
		-					, .					
Epoch	640/1500	1	a-	5ms/cton	- 1000	0 1007	accuracy	0 8160	val locci	0 5121	- val accumaci:	g 7700

Epoch	641/1500											
	[]	-	0s	4ms/step	- loss:	0.4088 - ad	ccuracy:	0.8142 -	val_loss:	0.5121 -	val_accuracy:	0.7708
	642/1500 []	_	0s	4ms/step	- loss:	0.4087 - ad	ccuracy:	0.8142 -	val loss:	0.5122 -	val accuracy:	0.7708
Epoch	643/1500											
	[========] 644/1500	-	0s	5ms/step	- loss:	0.4087 - ad	ccuracy:	0.8160 -	val_loss:	0.5122 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4087 - ad	ccuracy:	0.8160 -	val_loss:	0.5123 -	val_accuracy:	0.7708
	645/1500 [=======]		ac	Emc/ston	1000	0 1006 3	ccupacy	0 01/12	val loce:	0 5122	val accumacy:	0 7700
	646/1500	-	05	Jilis/step	- 1055.	0.4000 - ac	ccuracy.	0.0142 -	Va1_1055.	0.3123 -	vai_accuracy.	0.7700
18/18	[]	-	0s	5ms/step	- loss:	0.4085 - ad	ccuracy:	0.8142 -	val_loss:	0.5124 -	${\tt val_accuracy:}$	0.7708
	647/1500 []	_	95	5ms/sten	- loss:	0.4086 - ad	ccuracy:	0.8142 -	val loss:	0.5124 -	val accuracy:	0.7708
Epoch	648/1500											
	[========]	-	0s	4ms/step	- loss:	0.4085 - ad	ccuracy:	0.8160 -	val_loss:	0.5124 -	val_accuracy:	0.7656
	649/1500 []	_	0s	4ms/step	- loss:	0.4085 - ad	ccuracy:	0.8160 -	val loss:	0.5124 -	val accuracy:	0.7656
Epoch	650/1500											
	[=======] 651/1500	-	0s	5ms/step	- loss:	0.4085 - ad	ccuracy:	0.8160 -	val_loss:	0.5125 -	val_accuracy:	0.7656
	[]	-	0s	4ms/step	- loss:	0.4084 - ad	ccuracy:	0.8142 -	val_loss:	0.5125 -	val_accuracy:	0.7656
	652/1500		0.0	Ame /eton	10001	0 4005 24		0 0177	ual laces	0 5136		0.7656
	[========] 653/1500	-	05	4ms/step	- 1055;	0.4005 - ac	ccuracy:	0.81// -	Va1_1055:	0.5126 -	vai_accuracy:	0.7050
18/18	[]	-	0s	4ms/step	- loss:	0.4083 - ad	ccuracy:	0.8142 -	val_loss:	0.5127 -	val_accuracy:	0.7656
	654/1500 []	_	ac	Ame/ston	- 1000	0 1083 - 20	ccuracy:	0 8160 -	val loss:	0 5127 -	val accuracy:	0 7656
	655/1500		03	-нііз/ эсер	1033.	0.4005 - 80	ccui acy.	0.0100	va1_1033.	0.3127	var_accuracy.	0.7050
	[]	-	0s	5ms/step	- loss:	0.4083 - ad	ccuracy:	0.8160 -	val_loss:	0.5127 -	val_accuracy:	0.7656
	656/1500 [=======]	_	0s	5ms/step	- loss:	0.4084 - ad	ccuracv:	0.8142 -	val loss:	0.5128 -	val accuracy:	0.7656
Epoch	657/1500						-		_		_	
	[======] 658/1500	-	0s	5ms/step	- loss:	0.4083 - ad	ccuracy:	0.8160 -	val_loss:	0.5129 -	val_accuracy:	0.7656
	[]	-	0s	5ms/step	- loss:	0.4082 - ad	ccuracy:	0.8160 -	val_loss:	0.5129 -	val_accuracy:	0.7656
	659/1500		_		,							
	[=======] 660/1500	-	0s	4ms/step	- loss:	0.4082 - ad	ccuracy:	0.8160 -	val_loss:	0.5130 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4082 - ad	ccuracy:	0.8160 -	val_loss:	0.5130 -	val_accuracy:	0.7656
	661/1500 []		a-	5ms/cton	- 1000	0 4082	CCIIPSCV	0 8177	val locci	0 5130	val accuracy:	0 7656
	662/1500	-	05	Jilis/step	- 1055.	0.4002 - at	ccuracy.	0.81// -	Va1_1055.	0.3130 -	vai_accuracy.	0.7030
	[]	-	0s	5ms/step	- loss:	0.4081 - ad	ccuracy:	0.8160 -	val_loss:	0.5131 -	${\tt val_accuracy:}$	0.7656
	663/1500 []	_	ac	Ame/stan	- 1000	0 1081 - 20	ccuracy:	0 8160 -	val loss:	0 5131 -	val accuracy:	0 7656
	664/1500		03	-нііз/ эсер	1033.	0.4001 - 80	ccui acy.	0.0100	va1_1033.	0.5151	var_accuracy.	0.7050
	[]	-	0s	5ms/step	- loss:	0.4080 - ad	ccuracy:	0.8177 -	val_loss:	0.5131 -	val_accuracy:	0.7656
	665/1500 []	_	0s	4ms/step	- loss:	0.4079 - ad	ccuracv:	0.8177 -	val loss:	0.5131 -	val accuracy:	0.7656
Epoch	666/1500											
	[=======] 667/1500	-	0s	4ms/step	- loss:	0.4079 - ad	ccuracy:	0.8160 -	val_loss:	0.5132 -	val_accuracy:	0.7656
	[]	_	0s	6ms/step	- loss:	0.4079 - ad	ccuracy:	0.8160 -	val_loss:	0.5132 -	val_accuracy:	0.7656
Epoch	668/1500											
	[======] 669/1500	-	0s	4ms/step	- loss:	0.4079 - ad	ccuracy:	0.8142 -	val_loss:	0.5133 -	val_accuracy:	0.7656
	[=========]	_	0s	4ms/step	- loss:	0.4078 - ad	ccuracy:	0.8160 -	val_loss:	0.5133 -	val_accuracy:	0.7656
Epoch	670/1500											
	[=====================================	-	0s	5ms/step	- loss:	0.4078 - ad	ccuracy:	0.8177 -	val_loss:	0.5134 -	val_accuracy:	0.7656
	[]	-	0s	4ms/step	- loss:	0.4078 - ad	ccuracy:	0.8160 -	val_loss:	0.5134 -	val_accuracy:	0.7656
	672/1500		_		,							
	[=======] 673/1500	-	05	4ms/step	- 10SS:	0.4078 - ac	ccuracy:	0.81// -	vai_ioss:	0.5135 -	vai_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4077 - ad	ccuracy:	0.8160 -	val_loss:	0.5135 -	val_accuracy:	0.7656
	674/1500 [=======]		ac	Ame/ston	1000	0 4077 20	ccupacy	0 0177	val loce:	0 5126	val accumacy:	0 7656
	675/1500		05	41115/ 5 Сер	- 1055.	0.40// - ac	ccuracy.	0.81// -	Va1_1055.	0.3130 -	vai_accuracy.	0.7030
	[]	-	0s	5ms/step	- loss:	0.4077 - ad	ccuracy:	0.8160 -	val_loss:	0.5136 -	val_accuracy:	0.7656
18/18	676/1500	_	0s	4ms/step	- loss:	0.4077 - ad	ccuracv:	0.8160 -	val loss:	0.5136 -	val_accuracy:	0.7656
Epoch	677/1500											
	[=======] 678/1500	-	0s	5ms/step	- loss:	0.4077 - ad	ccuracy:	0.8194 -	val_loss:	0.5137 -	val_accuracy:	0.7656
	[]	-	0s	4ms/step	- loss:	0.4076 - ad	ccuracy:	0.8160 -	val_loss:	0.5137 -	val_accuracy:	0.7656
Epoch	679/1500											
	[=======] 680/1500	-	0s	5ms/step	- loss:	0.4076 - ad	ccuracy:	0.8194 -	val_loss:	0.5138 -	val_accuracy:	0.7656
	[]	-	0s	5ms/step	- loss:	0.4076 - ad	ccuracy:	0.8194 -	val_loss:	0.5138 -	val_accuracy:	0.7656
	681/1500		٥-	4	1	0 4075		0.0104		0 5130		0.7656
	[=======] 682/1500	-	05	4ms/step	- 1055;	0.4075 - ac	ccuracy.	0.0194 -	Va1_1055:	0.5156 -	vai_accuracy:	0.7050
18/18	[]	-	0s	4ms/step	- loss:	0.4076 - ad	ccuracy:	0.8177 -	val_loss:	0.5138 -	val_accuracy:	0.7656
	683/1500 []	_	ac	5mc/sten	- 1000	0 1071 - 20	ccuracy:	0 8160 -	val loss:	0 5130 -	val accuracy:	0 7656
	684/1500		05	Jilis/step	- 1055.	0.4074 - ac	ccuracy.	0.8100 -	Va1_1055.	0.3135 -	vai_accuracy.	0.7030
	[]	-	0s	5ms/step	- loss:	0.4074 - ad	ccuracy:	0.8194 -	val_loss:	0.5139 -	val_accuracy:	0.7656
	685/1500 []	_	0s	5ms/step	- loss:	0.4074 - ad	ccuracy:	0.8177 -	val loss:	0.5140 -	val accuracy:	0.7656
Epoch	686/1500											
	[=========] 687/1500	-	0s	4ms/step	- loss:	0.4074 - ad	ccuracy:	0.8194 -	val_loss:	0.5140 -	val_accuracy:	0.7656
	[]	-	0s	5ms/step	- loss:	0.4073 - ad	ccuracy:	0.8194 -	val_loss:	0.5140 -	val_accuracy:	0.7656
	688/1500		٥-	4	1	0 4074		0.0104		0 5144		0.7656
	[=======] 689/1500	-	05	4ms/step	- 10SS:	0.4074 - ac	ccuracy:	0.8194 -	vai_ioss:	0.5141 -	vai_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4073 - ad	ccuracy:	0.8177 -	val_loss:	0.5141 -	val_accuracy:	0.7656
	690/1500 []		0.0	Ame /eton	10001	0 4072 **		0.0104	ual laces	0 5143		0.7656
	691/1500	-	05	41115/ 5 сер	1055.	0.4073 - at	ccuracy.	0.0154 -	Va1_1055.	0.3142 -	vai_accuracy.	0.7030
18/18	[]	-	0s	5ms/step	- loss:	0.4073 - ad	ccuracy:	0.8212 -	val_loss:	0.5142 -	${\tt val_accuracy:}$	0.7656
	692/1500 []	_	۵s	5ms/sten	- loss·	0 4072 - ad	ccuracy:	a 8194 -	val loss:	0 5142 -	val accuracy:	0 7656
	693/1500		0.5	эшэ, эсер	1055.	01-1072 00	ccu. ucy.	0.0134	vu1_1035.	0.51.12	var_accaracy.	017030
	[]	-	0s	5ms/step	- loss:	0.4073 - ad	ccuracy:	0.8194 -	val_loss:	0.5142 -	val_accuracy:	0.7656
	694/1500 []	_	95	4ms/sten	- loss:	0.4073 - ac	ccuracy:	0.8212 -	val loss:	0.5143 -	val accuracy:	0.7656
	695/1500		0.5	чшэ, эсср	1055.	01-1075 00	ccu. ucy.	0.0212	vu1_1033.	0.51.5	var_accaracy.	017030
	[======]	-	0s	5ms/step	- loss:	0.4071 - ad	ccuracy:	0.8194 -	val_loss:	0.5143 -	val_accuracy:	0.7656
	696/1500 [=======]	_	0s	4ms/sten	- loss	0.4071 - 20	ccuracv:	0.8194 -	val loss:	0.5143 -	val_accuracv	0.7656
18/18							-		_			
Epoch	697/1500	-	0s	5ms/step	- loss:	0.4071 - ad	ccuracy:	0.8194 -	val_loss:	0.5144 -	val_accuracy:	0.7656
Epoch 18/18	[]				- 1000	0.4071 - ac	ccuracv:	0.8194 -	val loss:	0.5144 -	val accuracy:	0.7656
Epoch 18/18 Epoch	[] 698/1500		9<	4ms/sten		a	ucy .					,050
Epoch 18/18 Epoch 18/18 Epoch	[] 698/1500 [] 699/1500	-										
Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================	-				0.4071 - ad	ccuracy:	0.8177 -	val_loss:			0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[========] 698/1500 [===========] 699/1500 [==========] 700/1500	-	0s	5ms/step	- loss:					0.5144 -	val_accuracy:	
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=] 698/1500 [=] 699/1500 [=] 700/1500 [=]	-	0s 0s	5ms/step	- loss: - loss:	0.4071 - ad	ccuracy:	0.8212 -	val_loss:	0.5144 - 0.5145 -	<pre>val_accuracy: val_accuracy:</pre>	0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================	-	0s 0s	5ms/step	- loss: - loss:	0.4071 - ad	ccuracy:	0.8212 -	val_loss:	0.5144 - 0.5145 -	<pre>val_accuracy: val_accuracy:</pre>	0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================	-	0s 0s 0s	5ms/step 4ms/step 4ms/step	- loss: - loss: - loss:	0.4071 - ad	ccuracy:	0.8212 - 0.8212 -	val_loss: val_loss:	0.5144 - 0.5145 - 0.5145 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================		0s 0s 0s	5ms/step 4ms/step 4ms/step 4ms/step	- loss: - loss: - loss: - loss:	0.4071 - ac 0.4071 - ac 0.4071 - ac	ccuracy: ccuracy: ccuracy:	0.8212 - 0.8212 - 0.8212 -	<pre>val_loss: val_loss: val_loss:</pre>	0.5144 - 0.5145 - 0.5145 - 0.5145 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18	[=====================================		0s 0s 0s	5ms/step 4ms/step 4ms/step 4ms/step	- loss: - loss: - loss: - loss:	0.4071 - ac 0.4071 - ac 0.4071 - ac	ccuracy: ccuracy: ccuracy:	0.8212 - 0.8212 - 0.8212 -	<pre>val_loss: val_loss: val_loss:</pre>	0.5144 - 0.5145 - 0.5145 - 0.5145 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	[=====================================		0s 0s 0s 0s	5ms/step 4ms/step 4ms/step 4ms/step 5ms/step	- loss: - loss: - loss: - loss: - loss:	0.4071 - ac 0.4071 - ac 0.4071 - ac 0.4070 - ac	ccuracy: ccuracy: ccuracy: ccuracy:	0.8212 - 0.8212 - 0.8212 - 0.8212 -	<pre>val_loss: val_loss: val_loss: val_loss:</pre>	0.5144 - 0.5145 - 0.5145 - 0.5145 - 0.5146 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656

-p	705/1500		0-	4	1	0.4050		0 0212		0 54 47		0.7656
Epoch	[=====================================											
	[=====================================	-	0s	4ms/step	- loss:	0.4068 -	accuracy:	0.8194 -	· val_loss:	0.5147	- val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4068 -	accuracy:	0.8194 -	val_loss:	0.5148	<pre>- val_accuracy:</pre>	0.7656
18/18	708/1500 [=======]	-	0s	4ms/step	- loss:	0.4068 -	accuracy:	0.8212 -	val_loss:	0.5148	- val_accuracy:	0.7656
	709/1500 []	-	0s	5ms/step	- loss:	0.4068 -	accuracy:	0.8212 -	- val_loss:	0.5149	- val_accuracy:	0.7656
	710/1500 [=======]	ı -	۵s	Ams/sten	- loss:	0 4068 -	accuracy:	0 8212 -	· val loss:	0 5149	- val accuracy:	0 7656
Epoch	711/1500						-		_			
	[=====================================	-	0s	4ms/step	- loss:	0.4067 -	accuracy:	0.8212 -	· val_loss:	0.5149	- val_accuracy:	0.7656
18/18	[=====================================	-	0s	4ms/step	- loss:	0.4067 -	accuracy:	0.8194 -	val_loss:	0.5150	<pre>- val_accuracy:</pre>	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4067 -	accuracy:	0.8194 -	val_loss:	0.5151	- val_accuracy:	0.7656
	714/1500 []	-	0s	5ms/step	- loss:	0.4067 -	accuracy:	0.8194 -	- val_loss:	0.5151	- val_accuracy:	0.7656
	715/1500 []	l -	0s	5ms/sten	- loss:	0.4066 -	accuracy:	0.8212 -	· val loss:	0.5151	- val accuracy:	0.7656
Epoch	716/1500											
	[=====================================	-	0s	4ms/step	- loss:	0.4066 -	accuracy:	0.8194 -	· val_loss:	0.5152	- val_accuracy:	0.7656
	[=======] 718/1500	-	0s	5ms/step	- loss:	0.4066 -	accuracy:	0.8194 -	val_loss:	0.5152	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.4066 -	accuracy:	0.8212 -	val_loss:	0.5153	- val_accuracy:	0.7656
	719/1500 [==========]	-	0s	4ms/step	- loss:	0.4066 -	accuracy:	0.8212 -	- val_loss:	0.5154	- val_accuracy:	0.7656
	720/1500 [=======]	l -	0s	5ms/sten	- loss:	0.4064 -	accuracy:	0.8212 -	· val loss:	0.5155	- val accuracy:	0.7656
Epoch	721/1500						-		_			
	[=======] 722/1500	-	05	Sms/step -	- 1055:	0.4065 -	accuracy:	0.8194 -	· vai_ioss:	0.5156	- vai_accuracy:	0./656
	[=====================================	-	0s	4ms/step	- loss:	0.4064 -	accuracy:	0.8212 -	- val_loss:	0.5157	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.4063 -	accuracy:	0.8229 -	val_loss:	0.5158	- val_accuracy:	0.7656
18/18	724/1500 [=======]	-	0s	4ms/step	- loss:	0.4062 -	accuracy:	0.8212 -	val_loss:	0.5159	- val_accuracy:	0.7656
	725/1500 []	-	0s	7ms/step	- loss:	0.4061 -	accuracy:	0.8212 -	- val_loss:	0.5161	- val_accuracv:	0.7656
Epoch	726/1500											
Epoch	[=======] 727/1500						-		_			
	[=====================================	-	0s	6ms/step	- loss:	0.4061 -	accuracy:	0.8212 -	· val_loss:	0.5163	- val_accuracy:	0.7656
18/18	[]	-	0s	6ms/step	- loss:	0.4059 -	accuracy:	0.8212 -	val_loss:	0.5164	- val_accuracy:	0.7656
18/18	729/1500 []	-	0s	6ms/step	- loss:	0.4060 -	accuracy:	0.8212 -	val_loss:	0.5165	- val_accuracy:	0.7656
	730/1500 []	-	0s	6ms/step	- loss:	0.4059 -	accuracy:	0.8229 -	- val loss:	0.5166	- val accuracy:	0.7656
Epoch	731/1500 []											
Epoch	732/1500											
	[=====================================	-	0s	6ms/step	- loss:	0.4057 -	accuracy:	0.8194 -	· val_loss:	0.5167	- val_accuracy:	0.7656
	[=======] 734/1500	-	0s	7ms/step	- loss:	0.4057 -	accuracy:	0.8212 -	val_loss:	0.5168	- val_accuracy:	0.7656
18/18	[]	-	0s	6ms/step	- loss:	0.4056 -	accuracy:	0.8212 -	val_loss:	0.5169	- val_accuracy:	0.7656
	735/1500 []	-	0s	6ms/step	- loss:	0.4056 -	accuracy:	0.8194 -	- val_loss:	0.5170	- val_accuracy:	0.7656
	736/1500 []	ı -	۵s	6ms/sten	- loss:	0 4055 -	accuracy:	0 8194 -	· val loss:	0 5171	- val accuracy:	0 7656
Epoch	737/1500											
	[=====================================	-	0s	6ms/step	- loss:	0.4055 -	accuracy:	0.81// -	· val_loss:	0.51/2	- val_accuracy:	0.7656
	[=========] 739/1500	-	0s	6ms/step	- loss:	0.4054 -	accuracy:	0.8194 -	val_loss:	0.5172	- val_accuracy:	0.7656
18/18	[]	-	0s	6ms/step	- loss:	0.4053 -	accuracy:	0.8194 -	val_loss:	0.5173	- val_accuracy:	0.7656
18/18	740/1500 []	-	0s	5ms/step	- loss:	0.4055 -	accuracy:	0.8212 -	val_loss:	0.5174	- val_accuracy:	0.7656
	741/1500 []	-	0s	5ms/step -	- loss:	0.4053 -	accuracy:	0.8194 -	- val loss:	0.5175	- val accuracy:	0.7656
Epoch	742/1500 [=======]											
Epoch	743/1500						-		_			
	[========] 744/1500	-	0s	7ms/step	- loss:	0.4053 -	accuracy:	0.8212 -	· val_loss:	0.5176	- val_accuracy:	0.7656
	[=====================================	-	0s	6ms/step	- loss:	0.4051 -	accuracy:	0.8212 -	val_loss:	0.5177	- val_accuracy:	0.7656
18/18	[]	-	0s	7ms/step	- loss:	0.4052 -	accuracy:	0.8212 -	val_loss:	0.5178	- val_accuracy:	0.7656
	746/1500 []	-	0s	5ms/step	- loss:	0.4051 -	accuracy:	0.8212 -	- val_loss:	0.5179	- val_accuracy:	0.7656
	747/1500 []	ı -	0s	6ms/sten	- loss:	0.4050 -	accuracy:	0.8212 -	- val loss:	0.5179	- val accuracy:	0.7708
Epoch	748/1500											
Epoch	[=====================================											
	[========] 750/1500	-	0s	5ms/step	- loss:	0.4050 -	accuracy:	0.8212 -	· val_loss:	0.5180	- val_accuracy:	0.7708
18/18	[=======] 751/1500	-	0s	5ms/step	- loss:	0.4049 -	accuracy:	0.8212 -	val_loss:	0.5181	<pre>- val_accuracy:</pre>	0.7708
18/18	[]	-	0s	6ms/step	- loss:	0.4049 -	accuracy:	0.8194 -	val_loss:	0.5181	- val_accuracy:	0.7708
	752/1500 []	-	0s	6ms/step	- loss:	0.4048 -	accuracy:	0.8212 -	- val_loss:	0.5182	- val_accuracv:	0.7708
Epoch	753/1500 [=======]						-		_			
Epoch	754/1500						-		_			
Epoch	[=====================================											
18/18	[=======] 756/1500	-	0s	7ms/step	- loss:	0.4048 -	accuracy:	0.8177 -	val_loss:	0.5183	- val_accuracy:	0.7708
18/18	[]	-	0s	7ms/step	- loss:	0.4047 -	accuracy:	0.8194 -	val_loss:	0.5184	- val_accuracy:	0.7708
18/18	757/1500 [========]	-	0s	7ms/step	- loss:	0.4048 -	accuracy:	0.8212 -	- val_loss:	0.5184	- val_accuracy:	0.7708
Epoch	758/1500 [======]											
Epoch	759/1500						-		_			
Epoch	[=====================================											
	[=======] 761/1500	-	0s	6ms/step	- loss:	0.4046 -	accuracy:	0.8212 -	val_loss:	0.5185	- val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4046 -	accuracy:	0.8212 -	val_loss:	0.5186	- val_accuracy:	0.7708
18/18	762/1500 [=======]	-	0s	6ms/step	- loss:	0.4045 -	accuracy:	0.8212 -	val_loss:	0.5186	- val_accuracy:	0.7708
	763/1500 []	-	0s	6ms/step	- loss:	0.4045 -	accuracy:	0.8212 -	- val_loss:	0.5187	- val_accuracv:	0.7708
Epoch	764/1500 [=======]											
Epoch	765/1500											
	[=====================================	-	0s	/ms/step	- loss:	0.4044 -	accuracy:	0.8194 -	- vai_loss:	0.5188	- val_accuracy:	0.7708
18/18	[=======] 767/1500	-	0s	8ms/step	- loss:	0.4044 -	accuracy:	0.8194 -	val_loss:	0.5189	- val_accuracy:	0.7708
	[]	-	0s	8ms/step	- loss:	0.4044 -	accuracy:	0.8212 -	val_loss:	0.5190	- val_accuracy:	0.7708
Epoch 18/18	/68/1500 [===========]	-	95	8ms/sten -	- loss.	0.4044 -	accuracy.	0.8177 -	- val loss:	0.5191	- val accuracy:	0.7708

	769/1500				,							
Epoch	[========] 770/1500											
	[=========] 771/1500	-	0s	5ms/step	- loss:	0.4043 -	accuracy:	0.8212 -	val_loss:	0.5191 -	· val_accuracy:	0.7708
	[========] 772/1500	-	0s	5ms/step	- loss:	0.4043 -	accuracy:	0.8212 -	val_loss:	0.5192 -	· val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4042 -	accuracy:	0.8212 -	val_loss:	0.5192 -	val_accuracy:	0.7708
	773/1500 []	-	0s	5ms/step	- loss:	0.4043 -	accuracy:	0.8194 -	val_loss:	0.5193 -	· val_accuracy:	0.7708
	774/1500 [=======]	۱ -	۵s	Ams/sten	- loss:	0 4042 -	accuracy:	0 8212 -	val loss:	0 5193 -	val accuracy:	0 7708
Epoch	775/1500						-		_			
	[==========] 776/1500	-	0s	5ms/step	- loss:	0.4041 -	accuracy:	0.8212 -	val_loss:	0.5193 -	· val_accuracy:	0.7708
18/18	[========] 777/1500	-	0s	4ms/step	- loss:	0.4041 -	accuracy:	0.8194 -	val_loss:	0.5193 -	· val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4041 -	accuracy:	0.8194 -	val_loss:	0.5193 -	val_accuracy:	0.7708
	778/1500 []	-	0s	5ms/step	- loss:	0.4040 -	accuracy:	0.8194 -	val_loss:	0.5194	· val_accuracy:	0.7708
	779/1500 []	۱ -	0s	4ms/sten	- loss:	0.4041 -	accuracy:	0.8194 -	val loss:	0.5195 -	· val accuracy:	0.7708
Epoch	780/1500											
	[=========] 781/1500	-	0s	4ms/step	- loss:	0.4040 -	accuracy:	0.8212 -	val_loss:	0.5195 -	· val_accuracy:	0.7708
	[=======] 782/1500	-	0s	4ms/step	- loss:	0.4040 -	accuracy:	0.8212 -	val_loss:	0.5196 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4041 -	accuracy:	0.8212 -	val_loss:	0.5195 -	val_accuracy:	0.7708
	783/1500 [=========]	-	0s	5ms/step	- loss:	0.4040 -	accuracy:	0.8212 -	val_loss:	0.5196	val_accuracy:	0.7708
	784/1500 [=======]	۱ -	۵s	5ms/sten	- loss:	0 4039 -	accuracy:	0 8194 -	val loss:	0 5197 -	val accuracy:	0 7708
Epoch	785/1500								-			
	[========] 786/1500	-	05	Sms/step	- 1055:	0.4039 -	accuracy:	0.8212 -	vai_ioss:	0.5197	· vai_accuracy:	0.7708
	[=======] 787/1500	-	0s	5ms/step	- loss:	0.4039 -	accuracy:	0.8194 -	val_loss:	0.5199 -	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4039 -	accuracy:	0.8212 -	val_loss:	0.5199 -	val_accuracy:	0.7708
18/18	788/1500 [=======]	-	0s	5ms/step	- loss:	0.4039 -	accuracy:	0.8194 -	val_loss:	0.5199	val_accuracy:	0.7708
	789/1500 []	-	0s	4ms/step	- loss:	0.4038 -	accuracv:	0.8212 -	val loss:	0.5199 -	· val_accuracv:	0.7708
Epoch	790/1500											
Epoch	[=======] 791/1500						-		_			
	[=======] 792/1500	-	0s	4ms/step	- loss:	0.4038 -	accuracy:	0.8194 -	val_loss:	0.5200 -	· val_accuracy:	0.7708
18/18	[=======] 793/1500	-	0s	4ms/step	- loss:	0.4037 -	accuracy:	0.8212 -	val_loss:	0.5201 -	val_accuracy:	0.7708
18/18	[======]	-	0s	4ms/step	- loss:	0.4038 -	accuracy:	0.8194 -	val_loss:	0.5202 -	val_accuracy:	0.7708
	794/1500 []	-	0s	4ms/step	- loss:	0.4037 -	accuracy:	0.8229 -	val loss:	0.5202 -	· val accuracy:	0.7708
Epoch	795/1500 [=======]											
Epoch	796/1500											
	[=========] 797/1500	-	0s	4ms/step	- loss:	0.4036 -	accuracy:	0.8212 -	val_loss:	0.5201 -	· val_accuracy:	0.7708
	[=======] 798/1500	-	0s	7ms/step	- loss:	0.4036 -	accuracy:	0.8212 -	val_loss:	0.5201 -	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4037 -	accuracy:	0.8212 -	val_loss:	0.5201 -	val_accuracy:	0.7708
	799/1500 []	-	0s	5ms/step	- loss:	0.4036 -	accuracy:	0.8194 -	val_loss:	0.5202 -	· val_accuracy:	0.7708
	800/1500 []	۱ -	۵s	5ms/sten	- loss:	0 4037 -	accuracy:	0 8194 -	val loss:	A 52A2 -	val accuracy:	0 7708
Epoch	801/1500											
	[=========] 802/1500	-	ØS	5ms/step	- loss:	0.4036 -	accuracy:	0.8212 -	val_loss:	0.5202 -	· val_accuracy:	0.7708
	[=======] 803/1500	-	0s	4ms/step	- loss:	0.4035 -	accuracy:	0.8194 -	val_loss:	0.5203 -	val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.4036 -	accuracy:	0.8177 -	val_loss:	0.5203 -	val_accuracy:	0.7708
	804/1500 [=========]	-	0s	5ms/step	- loss:	0.4035 -	accuracy:	0.8212 -	val_loss:	0.5203 -	val_accuracy:	0.7708
	805/1500 []	۱ -	0s	4ms/step	- loss:	0.4034 -	accuracy:	0.8194 -	val loss:	0.5203 -	· val accuracv:	0.7708
Epoch	806/1500											
Epoch	[=======] 807/1500						-		_			
	[========] 808/1500	-	0s	5ms/step	- loss:	0.4034 -	accuracy:	0.8212 -	val_loss:	0.5204 -	· val_accuracy:	0.7656
	[=====================================	-	0s	6ms/step	- loss:	0.4034 -	accuracy:	0.8212 -	val_loss:	0.5205 -	val_accuracy:	0.7708
18/18	[]	-	0s	4ms/step	- loss:	0.4032 -	accuracy:	0.8212 -	val_loss:	0.5205 -	val_accuracy:	0.7656
	810/1500 []	-	0s	4ms/step	- loss:	0.4034 -	accuracy:	0.8212 -	val_loss:	0.5205 -	· val_accuracy:	0.7656
	811/1500 []	۱ -	۵s	5ms/sten	- loss:	0 4033 -	accuracy:	0 8194 -	val loss:	0 5205 -	val accuracy:	0 7656
Epoch	812/1500											
Epoch	[========] 813/1500						-		_			
	[=======] 814/1500	-	0s	4ms/step	- loss:	0.4032 -	accuracy:	0.8212 -	val_loss:	0.5204 -	· val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4032 -	accuracy:	0.8212 -	val_loss:	0.5204 -	val_accuracy:	0.7656
18/18	815/1500 [=======]	-	0s	5ms/step	- loss:	0.4032 -	accuracy:	0.8212 -	val_loss:	0.5204	val_accuracy:	0.7656
	816/1500 [======]	۱ -	05	5ms/sten	- loss:	0.4032 -	accuracy.	0.8212 -	val loss:	0.5204	· val accuracy:	0.7656
Epoch	[] 817/1500 []						-		_			
Epoch	818/1500						-		_			
	[=======] 819/1500	-	0s	5ms/step	- loss:	0.4032 -	accuracy:	0.8194 -	val_loss:	0.5205 -	· val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.4032 -	accuracy:	0.8212 -	val_loss:	0.5205 -	val_accuracy:	0.7656
18/18	820/1500 [=======]	-	0s	4ms/step	- loss:	0.4031 -	accuracy:	0.8212 -	val_loss:	0.5205	val_accuracy:	0.7656
	821/1500 []	-	0s	5ms/step	- loss:	0.4031 -	accuracy:	0.8212 -	val_loss:	0.5205 -	· val_accuracy:	0.7656
Epoch	822/1500 [=======]											
Epoch	823/1500						-		_			
	[=========] 824/1500	-	0s	5ms/step	- loss:	0.4031 -	accuracy:	0.8212 -	val_loss:	0.5205 -	· val_accuracy:	0.7656
18/18	[=======] 825/1500	-	0s	4ms/step	- loss:	0.4030 -	accuracy:	0.8194 -	val_loss:	0.5206 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.4030 -	accuracy:	0.8212 -	val_loss:	0.5206 -	val_accuracy:	0.7656
18/18	826/1500 []	-	0s	5ms/step	- loss:	0.4030 -	accuracy:	0.8212 -	val_loss:	0.5206 -	· val_accuracv:	0.7656
Epoch	827/1500 []											
Epoch	828/1500											
	[=======] 829/1500	-	0s	5ms/step	- loss:	0.4030 -	accuracy:	0.8212 -	val_loss:	0.5207 -	· val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.4029 -	accuracy:	0.8212 -	val_loss:	0.5206 -	val_accuracy:	0.7656
18/18	830/1500 [=======]	-	0s	4ms/step	- loss:	0.4029 -	accuracy:	0.8212 -	val_loss:	0.5207 -	val_accuracy:	0.7656
	831/1500 []	-	0s	6ms/step	- loss:	0.4029 -	accuracv:	0.8212 -	val loss:	0.5207 -	· val_accuracv:	0.7656
Epoch	832/1500											
18/18	[]	-	ØS	oms/step	- 10SS:	v.4029 -	accuracy:	υ.8212 -	vai_loss:	υ.5207 -	· vai_accuracy:	υ./656

-p	833/1500 [=======]	ı	a.c	Emc/ston	loss	0.4020	accupacy:	a 9212	val loss:	0 5207	val accumacy:	0 7656
Epoch	834/1500						-		_			
Epoch	[=====================================											
	[=====================================	-	0s	5ms/step -	- loss:	0.4028 -	accuracy:	0.8212 -	- val_loss:	0.5207	- val_accuracy:	0.7656
	[========] 837/1500	-	0s	4ms/step -	- loss:	0.4028 -	accuracy:	0.8212	- val_loss:	0.5207	- val_accuracy:	0.7656
	[=====================================	-	0s	4ms/step -	- loss:	0.4027 -	accuracy:	0.8212 -	- val_loss:	0.5207	- val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step -	- loss:	0.4027 -	accuracy:	0.8212 -	- val_loss:	0.5207	- val_accuracy:	0.7656
18/18	839/1500 [=======]	-	0s	5ms/step -	- loss:	0.4026 -	accuracy:	0.8212	- val_loss:	0.5207	- val_accuracy:	0.7656
	840/1500 [=======]	-	0s	4ms/step	- loss:	0.4027 -	accuracy:	0.8212	- val_loss:	0.5208	- val_accuracy:	0.7656
	841/1500 []	-	0s	5ms/step ·	- loss:	0.4026 -	accuracy:	0.8212 -	- val loss:	0.5208	- val accuracy:	0.7656
Epoch	842/1500 [=======]											
Epoch	843/1500 [======]											
Epoch	844/1500											
	[=====================================	-	0s	4ms/step -	- loss:	0.4025 -	accuracy:	0.8212	- val_loss:	0.5207	- val_accuracy:	0.7656
	[=====================================	-	0s	5ms/step -	- loss:	0.4026 -	accuracy:	0.8212	- val_loss:	0.5208	- val_accuracy:	0.7656
	[=====================================	-	0s	4ms/step -	- loss:	0.4025 -	accuracy:	0.8212	- val_loss:	0.5208	- val_accuracy:	0.7656
18/18	[=======] 848/1500	-	0s	4ms/step -	- loss:	0.4025 -	accuracy:	0.8212	- val_loss:	0.5208	- val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step -	- loss:	0.4025 -	accuracy:	0.8212	- val_loss:	0.5209	- val_accuracy:	0.7656
18/18	849/1500 []	-	0s	4ms/step -	- loss:	0.4025 -	accuracy:	0.8212	- val_loss:	0.5210	- val_accuracy:	0.7656
	850/1500 [======]	-	0s	5ms/step ·	- loss:	0.4024 -	accuracy:	0.8212	- val_loss:	0.5210	- val_accuracy:	0.7656
Epoch	851/1500 [=======]											
Epoch	852/1500											
Epoch	[======] 853/1500											
Epoch	[=======] 854/1500											
	[========] 855/1500	-	0s	5ms/step -	- loss:	0.4023 -	accuracy:	0.8212 -	- val_loss:	0.5211	- val_accuracy:	0.7656
	[=======] 856/1500	-	0s	4ms/step -	- loss:	0.4024 -	accuracy:	0.8229	- val_loss:	0.5212	- val_accuracy:	0.7656
18/18	[=======] 857/1500	-	0s	4ms/step -	- loss:	0.4023 -	accuracy:	0.8229	- val_loss:	0.5212	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step -	- loss:	0.4023 -	accuracy:	0.8229	- val_loss:	0.5213	- val_accuracy:	0.7656
18/18	858/1500 []	-	0s	4ms/step -	- loss:	0.4023 -	accuracy:	0.8194	- val_loss:	0.5213	- val_accuracy:	0.7656
	859/1500 [======]	-	0s	5ms/step	- loss:	0.4022 -	accuracy:	0.8229	- val_loss:	0.5214	- val_accuracy:	0.7656
	860/1500 [=======]	l -	0s	5ms/step ·	- loss:	0.4023 -	accuracy:	0.8212	- val loss:	0.5214	- val accuracv:	0.7656
Epoch	861/1500 [=======]											
Epoch	862/1500											
Epoch	[=======] 863/1500						-		_			
Epoch	[=====================================											
	[======] 865/1500	-	0s	5ms/step -	- loss:	0.4022 -	accuracy:	0.8229	- val_loss:	0.5215	- val_accuracy:	0.7656
	[=======] 866/1500	-	0s	5ms/step -	- loss:	0.4021 -	accuracy:	0.8212	- val_loss:	0.5215	- val_accuracy:	0.7656
18/18	[=======] 867/1500	-	0s	5ms/step -	- loss:	0.4022 -	accuracy:	0.8177	- val_loss:	0.5216	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step -	- loss:	0.4021 -	accuracy:	0.8212	- val_loss:	0.5216	- val_accuracy:	0.7656
18/18	868/1500 [=======]	-	0s	4ms/step -	- loss:	0.4021 -	accuracy:	0.8212	- val_loss:	0.5216	- val_accuracy:	0.7656
	869/1500 [=========]	-	0s	5ms/step -	- loss:	0.4022 -	accuracy:	0.8194	- val_loss:	0.5216	- val_accuracy:	0.7656
	870/1500 []	-	0s	4ms/step ·	- loss:	0.4021 -	accuracy:	0.8194	- val_loss:	0.5217	- val_accuracy:	0.7656
	871/1500 []	· -	0s	5ms/step	- loss:	0.4021 -	accuracy:	0.8229	- val loss:	0.5217	- val accuracv:	0.7656
Epoch	872/1500 [======]						-		_			
Epoch	873/1500						,		_		_ ′	
Epoch	[=====================================											
Epoch	[=====================================											
	[=======] 876/1500	-	0s	4ms/step -	- loss:	0.4020 -	accuracy:	0.8194	- val_loss:	0.5218	- val_accuracy:	0.7656
18/18	[=====================================	-	0s	4ms/step -	- loss:	0.4020 -	accuracy:	0.8177	- val_loss:	0.5218	- val_accuracy:	0.7656
18/18	[=======] 878/1500	-	0s	6ms/step -	- loss:	0.4019 -	accuracy:	0.8194	- val_loss:	0.5219	- val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step -	- loss:	0.4019 -	accuracy:	0.8194	- val_loss:	0.5219	- val_accuracy:	0.7656
18/18	879/1500 []	-	0s	5ms/step -	- loss:	0.4019 -	accuracy:	0.8177	- val_loss:	0.5219	- val_accuracy:	0.7656
	880/1500 [======]	-	0s	6ms/step	- loss:	0.4018 -	accuracy:	0.8212	- val_loss:	0.5220	- val_accuracy:	0.7656
	881/1500 [=======]	-	0s	6ms/step ·	- loss:	0.4019 -	accuracy:	0.8194	- val_loss:	0.5220	- val_accuracy:	0.7656
Epoch	882/1500 [=======]						-		_			
Epoch	[] 883/1500 []											
Epoch	884/1500											
Epoch	[=======] 885/1500											
Epoch	[=====================================											
18/18	[=======] 887/1500	-	0s	7ms/step -	- loss:	0.4018 -	accuracy:	0.8177	- val_loss:	0.5221	- val_accuracy:	0.7656
18/18	[=======] 888/1500	-	0s	7ms/step -	- loss:	0.4017 -	accuracy:	0.8177	- val_loss:	0.5222	val_accuracy:	0.7656
18/18	[]	-	0s	6ms/step -	- loss:	0.4017 -	accuracy:	0.8177	val_loss:	0.5222	- val_accuracy:	0.7656
18/18	889/1500 []	-	0s	6ms/step -	- loss:	0.4017 -	accuracy:	0.8212	- val_loss:	0.5223	- val_accuracy:	0.7656
18/18	890/1500 []	-	0s	5ms/step ·	- loss:	0.4017 -	accuracy:	0.8177	- val_loss:	0.5223	- val_accuracy:	0.7656
Epoch	891/1500 [=======]											
Epoch	892/1500 [======]											
Epoch	893/1500											
Epoch	[======] 894/1500											
Epoch	[=====================================						-		_			
	[=====================================	-	0s	6ms/step -	- loss:	0.4016 -	accuracy:	0.8194	- val_loss:	0.5224	- val_accuracy:	0.7656
	[]	-	0s	8ms/step -	- loss:	0.4017 -	accuracy:	0.8177	- val_loss:	0.5225	- val_accuracy:	0.7656

-p	397/1500										
	[=========]	- 0s	7ms/step -	loss:	0.4016 -	accuracy:	0.8177	- val_loss:	0.5225 -	val_accuracy:	0.7656
	398/1500 [=======]	- 00	Smc/stan -	1000	0 1016	accuracy:	0 8177	- val loss:	0 5224 -	val accuracy:	0 7656
poch	399/1500					-		_			
	[=======]	- 0s	5ms/step -	loss:	0.4015 -	accuracy:	0.8177	- val_loss:	0.5224 -	val_accuracy:	0.7656
	900/1500 [=======]	- 09	6ms/step -	loss:	0.4016 -	accuracy:	0.8194	- val loss:	0.5225 -	val_accuracv:	0.7656
poch	901/1500										
	[========] 902/1500	- 0s	6ms/step -	loss:	0.4015 -	accuracy:	0.8194	- val_loss:	0.5225 -	val_accuracy:	0.7656
	902/1500 [=========]	- 0s	6ms/step -	loss:	0.4015 -	accuracy:	0.8177	- val_loss:	0.5226 -	val_accuracy:	0.7656
poch	903/1500					-		_			
	[========] 904/1500	- 05	∍ms/step -	1055:	v.4016 -	accuracy:	ω.81//	- A9T_TO22:	Ø.5226 -	vai_accuracy:	0./656
8/18	[========]	- 0s	5ms/step -	loss:	0.4014 -	accuracy:	0.8177	- val_loss:	0.5226 -	val_accuracy:	0.7656
	905/1500 [=======]	- 0-	7ms/sten	10551	0.4015	accuracy.	0.8194	- val locc	0.5226	val accuracy:	0.7656
	[========] 906/1500	- 62	/m3/scep -	1022:	0.4010 -	accuracy:	0.0194	A01_1022;	J.J220 -	·ar_accuracy:	3.,030
8/18	[=======]	- 0s	6ms/step -	loss:	0.4014 -	accuracy:	0.8177	- val_loss:	0.5226 -	val_accuracy:	0.7656
	907/1500 [=======]	- 0s	8ms/step -	loss:	0.4014	accuracy:	0.8194	- val_loss:	0.5227 -	val_accuracy:	0.7656
poch	908/1500										
	[=========] 909/1500	- 0s	8ms/step -	loss:	0.4014 -	accuracy:	0.8177	- val_loss:	0.5227 -	val_accuracy:	0.7656
	[========]	- 0s	6ms/step -	loss:	0.4015	accuracy:	0.8177	- val_loss:	0.5227 -	val_accuracy:	0.7656
	910/1500	0-		1	0.4044		0.0104		0 5227		0.7656
	[=========] 911/1500	- 05	/ms/step -	1055:	0.4014 -	accuracy:	v.8194	- A9T_TO22:	0.522/ -	vai_accuracy:	0./656
3/18	[=======]	- 0s	6ms/step -	loss:	0.4014 -	accuracy:	0.8177	- val_loss:	0.5227 -	val_accuracy:	0.7656
	912/1500 [=======]	- 0-	6ms/sten	10551	0.4011	accuracy.	0.8194	- val locc	0.5228	val accuracy:	0.7656
poch	913/1500										
8/18	[=======]	- 0s	7ms/step -	loss:	0.4013 -	accuracy:	0.8212	- val_loss:	0.5229 -	val_accuracy:	0.7656
	914/1500 [========]	- 09	8ms/step -	loss:	0.4012 -	accuracy:	0.8177	- val loss:	0.5229 -	val_accuracv:	0.7656
poch	915/1500					-		_			
	[=======] 916/1500	- 0s	6ms/step -	loss:	0.4013 -	accuracy:	0.8177	- val_loss:	0.5229 -	val_accuracy:	0.7656
8/18	[]	- 0s	10ms/step	- loss	: 0.4012	- accuracy	: 0.8194	- val_loss	: 0.5230	- val_accuracy	: 0.7656
poch	917/1500					-		_			
	[=========] 918/1500	- 05	/ms/step -	1055:	0.4012 -	accuracy:	ω.81//	- A9T_TO22:	0.5230 -	vai_accuracy:	0./656
8/18	[========]	- 0s	8ms/step -	loss:	0.4013 -	accuracy:	0.8177	- val_loss:	0.5230 -	val_accuracy:	0.7604
	919/1500 [=======]	- ac	7ms/sten -	loss	0.4012	accuracy.	0.8177	- val loss.	0.5230 -	val accuracy:	0.7656
poch	920/1500										
	[=======]	- 0s	7ms/step -	loss:	0.4011 -	accuracy:	0.8194	- val_loss:	0.5230 -	val_accuracy:	0.7604
	921/1500 [=======]	- 0s	6ms/step -	loss:	0.4012 -	accuracy:	0.8177	- val_loss:	0.5230 -	val_accuracy:	0.7604
poch	922/1500										
	[=======] 923/1500	- 0s	4ms/step -	loss:	0.4011 -	accuracy:	0.8194	- val_loss:	0.5231 -	val_accuracy:	0.7604
8/18	[]	- 0s	5ms/step -	loss:	0.4011 -	accuracy:	0.8177	- val_loss:	0.5231 -	val_accuracy:	0.7604
poch	924/1500										
ooch	[=======] 925/1500										
/18	[=======]	- 0s	5ms/step -	loss:	0.4011 -	accuracy:	0.8177	- val_loss:	0.5232 -	val_accuracy:	0.7604
	926/1500 [=======]	- 09	4ms/step -	loss:	0.4011 -	accuracy:	0.8177	- val loss:	0.5232 -	val_accuracv:	0.7604
och	927/1500					-		_			
	[=======] 928/1500	- 0s	5ms/step -	loss:	0.4010 -	accuracy:	0.8177	- val_loss:	0.5233 -	val_accuracy:	0.7604
3/18	[========]	- 0s	5ms/step -	loss:	0.4009 -	accuracy:	0.8177	- val_loss:	0.5233 -	val_accuracy:	0.7604
och	929/1500										
	[========] 930/1500	- 0s	4ms/step -	TOSS:	0.4010 -	accuracy:	v.8212	- val_loss:	v.5234 -	vai_accuracy:	v./604
3/18	[=======]	- 0s	5ms/step -	loss:	0.4009 -	accuracy:	0.8177	- val_loss:	0.5233 -	val_accuracy:	0.7604
	931/1500 [=======]	- 0-	5ms/sten	10551	0.4000	accuracy.	0.8194	- val locc	0.5234	val accuracy:	0.7604
ooch	932/1500										
	[=======]	- 0s	5ms/step -	loss:	0.4009 -	accuracy:	0.8177	- val_loss:	0.5234 -	val_accuracy:	0.7604
	933/1500 [=======]	- 09	5ms/step -	loss:	0.4009 -	accuracy:	0.8177	- val loss:	0.5235 -	val_accuracv:	0.7604
ooch	934/1500					-		_			
	[=======] 935/1500	- 0s	4ms/step -	loss:	0.4009 -	accuracy:	0.8177	- val_loss:	0.5235 -	val_accuracy:	0.7604
3/18	[]	- 0s	5ms/step -	loss:	0.4008 -	accuracy:	0.8177	- val_loss:	0.5234 -	val_accuracy:	0.7604
och	936/1500					-		_			
	[========] 937/1500	- 0s	4ms/step -	loss:	U.4009 -	accuracy:	v.8177	- val_loss:	⊌.5235 -	val_accuracy:	v./604
3/18	[=======]	- 0s	5ms/step -	loss:	0.4008 -	accuracy:	0.8194	- val_loss:	0.5235 -	val_accuracy:	0.7604
	938/1500 [=======]	- 0-	5ms/sten	10551	0.4000						
poch	939/1500		ana/scep -	1022:	U. HUUO -	accumación	Ø 2177	- val locc:	0 5236	val accuracy:	
8/18	[========]					-		_			0.7604
	140/1500	- 0s	5ms/step -	loss:		-		_			0.7604
	940/1500 [=======]				0.4006 -	accuracy:	0.8194	- val_loss:	0.5236 -	val_accuracy:	0.7604 0.7604
8/18 poch	[=======] 941/1500	- 0s	5ms/step -	loss:	0.4006 - 0.4008 -	accuracy:	0.8194 0.8194	- val_loss:	0.5236 - 0.5237 -	val_accuracy:	0.7604 0.7604 0.7604
8/18 poch 8/18	[======] 941/1500 [======]	- 0s	5ms/step -	loss:	0.4006 - 0.4008 -	accuracy:	0.8194 0.8194	- val_loss:	0.5236 - 0.5237 -	val_accuracy:	0.7604 0.7604 0.7604
8/18 poch 8/18 poch	[=======] 941/1500	- 0s	5ms/step -	loss:	0.4006 - 0.4008 - 0.4007 -	accuracy: accuracy:	0.8194 0.8194 0.8177	- val_loss: - val_loss: - val_loss:	0.5236 - 0.5237 - 0.5236 -	val_accuracy: val_accuracy: val_accuracy:	0.7604 0.7604 0.7604 0.7604
8/18 poch 8/18 poch 8/18 poch	[] 041/1500 [] 142/1500 [] 143/1500	- 0s - 0s - 0s	5 ms/step - 5 ms/step - 5 ms/step -	loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 -	accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194	- val_loss: - val_loss: - val_loss: - val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7604 0.7604 0.7604 0.7604 0.7604
8/18 poch 8/18 poch 8/18 poch 8/18	[======] 44/1500 [======] 342/1500 [========]	- 0s - 0s - 0s	5 ms/step - 5 ms/step - 5 ms/step -	loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 -	accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194	- val_loss: - val_loss: - val_loss: - val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7604 0.7604 0.7604 0.7604 0.7604
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================	- 0s - 0s - 0s - 0s	5 5ms/step - 5 5ms/step - 5 5ms/step - 6 6ms/step -	loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 -	accuracy: accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7604 0.7604 0.7604 0.7604 0.7604
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=======] 41/1500 42/1500 [=======] 43/1500 [=======] 44/1500 [=========]	- 0s - 0s - 0s - 0s	5ms/step - 5ms/step - 5ms/step - 6ms/step - 5ms/step -	loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4006 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================	- 0s - 0s - 0s - 0s	5ms/step - 5ms/step - 5ms/step - 6ms/step - 5ms/step -	loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4006 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604
3/18 3/18 3/18 3/18 3/18 3/18 3/18 3/18		- 0s - 0s - 0s - 0s - 0s - 0s	5ms/step - 5ms/step - 5ms/step - 6ms/step - 6ms/step - 5ms/step - 6ms/step -	loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4007 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604
3/18 3/18 3/18 3/18 3/18 3/18 3/18 3/18	[========] 942/1500 [========] 942/1500 [=========] 943/1500 [========] 944/1500 [============] 945/1500 [==================]	- 0s	: 5ms/step - : 5ms/step - : 5ms/step - : 6ms/step - : 5ms/step - : 4ms/step -	loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4007 - 0.4007 - 0.4007 - 0.4007 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5239 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694
3/18 3/18 3/18 3/18 3/18 3/18 3/18 3/18	[========] 44/1500 [=======] 42/1500 [=======] 43/1500 [=========] 44/1500 [==========] 46/1500 [========] 47/1500 [=========] 47/1500 [==========] 44/1500	- 0s	: 5ms/step - : 5ms/step - : 5ms/step - : 6ms/step - : 5ms/step - : 4ms/step - : 5ms/step -	loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4005 - 0.4006 - 0.4007 - 0.4005 - 0.4005 - 0.4005 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7656
1/18 1/18 1/18 1/18 1/18 1/18 1/18 1/18		- 0s	: 5ms/step - : 5ms/step - : 5ms/step - : 6ms/step - : 5ms/step - : 4ms/step - : 5ms/step -	loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4005 - 0.4006 - 0.4007 - 0.4005 - 0.4005 - 0.4005 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7656
7/18 7/18	[========] 44/1500 [=======] 42/1500 [=======] 43/1500 [=========] 44/1500 [==========] 46/1500 [========] 47/1500 [=========] 47/1500 [==========] 44/1500	- 0s	: 5ms/step - : 5ms/step - : 5ms/step - : 6ms/step - : 5ms/step - : 4ms/step - : 5ms/step - : 5ms/step -	loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4007 - 0.4005 - 0.4006 - 0.4007 - 0.4005 - 0.4005 - 0.4005 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656
1/18 1/18 1/18 1/18 1/18 1/18 1/18 1/18	[========] 41/1500 [=========] 42/1500 [========] 43/1500 [=========] 944/1500 [==========] 44/1500 [==========] 44/1500 [==========] 44/1500 [===========] 44/1500 [==========] 44/1500 [==========] 49/1500 [==========] 649/1500	- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - Sms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4006 - 0.4006 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 -	accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7664
1/18 1/18 1/18 1/18 1/18 1/18 1/18 1/18	[========] 44/1500 [=======] 42/1500 [=======] 43/1500 [========] 43/1500 [=======] 44/1500 [========] 44/1500 [========] 43/1500 [=========] 43/1500 [==========] 58/1500 [=========] 58/1500	- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - Sms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4006 - 0.4006 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 -	accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7664
8/18 soch soch soch		- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - Sms/step - 4ms/step - Sms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 -	accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7664 0.7604 0.7604
8/18 poch 8/18 8/18 8/18 8/18 poch 8	[========] 44/1500 [=======] 42/1500 [=======] 43/1500 [========] 44/1500 [========] 46/1500 [=========] 47/1500 [==========] 47/1500 [==========] 47/1500 [===========] 47/1500 [============] 47/1500 [============] 47/1500 [============] 47/1500 [============] 47/1500 [=============] 47/1500	- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 6ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 -	accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7656 0.7604 0.7604 0.7604 0.7604 0.7604
8/18 poch 8/18 p		- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 6ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 -	accuracy:	0.8194 0.8194 0.8177 0.8194 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7656 0.7604 0.7604 0.7604 0.7604 0.7604
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=======] 44/1500 [=======] 43/1500 [=======] 43/1500 [=======] 44/1500 [=======] 44/1500 [========] 46/1500 [========] 48/1500 [========] 58/1500 [========] 550/1500 [========] 553/1500	- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 5ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 5ms/step - 5ms/step - 4ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 -	val_accuracy:	9.7694 9.7694 9.7694 9.7694 9.7694 9.7694 9.7694 9.7696 9.7696 9.7696 9.7694 9.7694 9.7694 9.7696 9.7696 9.7696 9.7696
8/18 poch 8/18 p		- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 5ms/step - 5ms/step - 4ms/step - 5ms/step - 5ms/step - 4ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 - 0.4005 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5238 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7604 0.7604 0.7664 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[========] 44/1500 [========] 44/1500 [=======] 944/1500 [=======] 944/1500 [========] 946/1500 [========] 946/1500 [========] 948/1500 [========] 949/1500 [========] 951/1500 [========] 952/1500 [========] 953/1500 [========] 954/1500 [========] 954/1500 [========] 954/1500 [========] 954/1500	- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4006 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 - 0.4005 - 0.4005 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5239 -	val_accuracy:	0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7656 0.7656 0.7694 0.7694 0.7694 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p		- 0s	Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4006 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 - 0.4005 - 0.4005 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5239 -	val_accuracy:	0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7656 0.7656 0.7694 0.7694 0.7694 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[========] 44/1500 [========] 44/1500 [=======] 944/1500 [=======] 944/1500 [========] 946/1500 [========] 946/1500 [========] 948/1500 [========] 949/1500 [========] 951/1500 [========] 952/1500 [========] 953/1500 [========] 954/1500 [========] 954/1500 [========] 954/1500 [========] 954/1500	- 0s	Sms/step - Ams/step - Ams/step - Ams/step - Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - Ams/step - Ams/step - Ams/step - Ams/step - Ams/step - Ams/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4003 - 0.4003 - 0.4003 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 -	val_accuracy:	0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7656 0.7656 0.7694 0.7694 0.7694 0.7696 0.7656 0.7656 0.7656 0.7656
8/18 poch		- 0s	Sms/step - Ams/step - Ams/step - Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - Ams/step - Ams/step - Ams/step - Ams/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 - 0.4003 - 0.4003 - 0.4003 - 0.4003 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7694 0.7694 0.7694 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p		- 0s	Sms/step - Ams/step - Ams/step - Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - Ams/step - Ams/step - Ams/step - Ams/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 - 0.4003 - 0.4003 - 0.4003 - 0.4003 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194	- val_loss:	0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7694 0.7694 0.7694 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p		- 0s	Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - Ams/step - Sms/step - Sms/step - Ams/step - Ams/step - Ams/step - Sms/step - Ams/step - Ams/step - Sms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 - 0.4003 - 0.4003 - 0.4003 - 0.4003 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5239 - 0.5239 - 0.5239 - 0.5230 -	val_accuracy:	0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 900ch 900ch 90		- 0s	Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 4ms/step - 5ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 5ms/step - 5ms/step - 5ms/step - 4ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199	- val_loss:	0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5239 - 0.5239 - 0.5239 - 0.5239 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 900ch 900ch 90		- 0s	Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 4ms/step - 5ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 5ms/step - 5ms/step - 5ms/step - 4ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4004 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199	- val_loss:	0.5236 - 0.5237 - 0.5238 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5239 - 0.5239 - 0.5239 - 0.5239 - 0.5240 - 0.5240 -	val_accuracy:	0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7604 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 ooch		- 0s	Sms/step - Sms/step - Sms/step - Sms/step - Sms/step - 6ms/step - 4ms/step - 5ms/step - 4ms/step - 5ms/step - 4ms/step - 4ms/step - 4ms/step - 4ms/step - 5ms/step - 4ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.4006 - 0.4008 - 0.4007 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4005 - 0.4004 - 0.4004 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 - 0.4003 -	accuracy:	0.8194 0.8194 0.8197 0.8194 0.8212 0.8194 0.8194 0.8194 0.8194 0.8194 0.8194 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199 0.8199	- val_loss:	0.5236 - 0.5237 - 0.5236 - 0.5237 - 0.5239 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5240 - 0.5239 - 0.5239 - 0.5239 - 0.5239 - 0.5239 - 0.5239 - 0.5239 - 0.5239 - 0.5239 -	val_accuracy:	0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7694 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656

	961/1500														
	[=====================================] -	- 09	4ms/step	-	loss:	0.4002	- ac	curacy:	0.8194	- val_loss:	0.5239	-	val_accuracy:	0.7656
8/18	[=======] -	- 0s	5ms/step	-	loss:	0.4003	- ac	curacy:	0.8177	- val_loss:	0.5239	-	val_accuracy:	0.7656
	963/1500 [===================================] -	- 0s	4ms/step	-	loss:	0.4003	- ac	curacy:	0.8194	- val_loss:	0.5240	-	val_accuracy:	0.7656
	964/1500 [========	1 -	- 00	: 4ms/sten	_	loss	a 4aa3	- acı	curacy:	0 8177	- val loss:	0 5240	_	val accuracy:	0 7656
poch	965/1500								-		_				
	[=====================================] -	- 09	5ms/step	-	loss:	0.4001	- ac	curacy:	0.8194	- val_loss:	0.5241	-	val_accuracy:	0.7656
	[======================================] -	- 0s	4ms/step	-	loss:	0.4001	- ac	curacy:	0.8177	- val_loss:	0.5241	-	val_accuracy:	0.7656
18/18	[========] -	- 09	6ms/step	-	loss:	0.4001	- ac	curacy:	0.8212	- val_loss:	0.5241	-	val_accuracy:	0.7656
18/18	968/1500 [===================================] -	- 09	5ms/step	-	loss:	0.4001	- ac	curacy:	0.8212	- val_loss:	0.5241	-	val_accuracy:	0.7656
	969/1500 [=========	1 -	- 0s	5ms/step	-	loss:	0.4001	- ac	curacv:	0.8212	- val loss:	0.5242	_	val accuracy:	0.7656
Epoch	970/1500								-		_				
Epoch	[=====================================														
	[=====================================] -	- 09	5ms/step	-	loss:	0.4000	- ac	curacy:	0.8177	- val_loss:	0.5242	-	val_accuracy:	0.7656
18/18	[=====================================] -	- 09	6ms/step	-	loss:	0.4001	- ac	curacy:	0.8212	- val_loss:	0.5241	-	val_accuracy:	0.7656
18/18	[=========] -	- 09	5ms/step	-	loss:	0.4000	- ac	curacy:	0.8212	- val_loss:	0.5241	-	val_accuracy:	0.7656
	974/1500 [] -	- 09	5ms/step	-	loss:	0.3999	- ac	curacy:	0.8194	- val_loss:	0.5241	_	val_accuracy:	0.7656
	975/1500 [========	1 -	- 09	5ms/sten	-	loss:	0.4000	- ac	curacy:	0.8212	- val loss:	0.5241	_	val accuracy:	0.7656
Epoch	976/1500														
Epoch	[=====================================														
	[======================================] -	- 09	5ms/step	-	loss:	0.3999	- ac	curacy:	0.8177	- val_loss:	0.5242	-	val_accuracy:	0.7656
18/18	[=====================================] -	- 0s	4ms/step	-	loss:	0.3999	- ac	curacy:	0.8194	- val_loss:	0.5242	-	val_accuracy:	0.7656
18/18	[=========] -	- 0s	5ms/step	-	loss:	0.3999	- ac	curacy:	0.8212	- val_loss:	0.5243	-	val_accuracy:	0.7656
18/18	980/1500 [] -	- 0s	5ms/step	-	loss:	0.3999	- ac	curacy:	0.8177	- val_loss:	0.5244	_	val_accuracy:	0.7656
poch	981/1500 [-		_				
Epoch	982/1500														
Epoch	[=====================================														
	[=====================================] -	- 0s	5ms/step	-	loss:	0.3998	- ac	curacy:	0.8177	- val_loss:	0.5244	-	val_accuracy:	0.7656
18/18	[=========] -	- 0s	4ms/step	-	loss:	0.3998	- ac	curacy:	0.8194	- val_loss:	0.5244	-	val_accuracy:	0.7656
18/18	985/1500 [=========] -	- 0s	4ms/step	-	loss:	0.3998	- ac	curacy:	0.8177	- val_loss:	0.5244	-	val_accuracy:	0.7656
	986/1500 [] -	- 0.9	5ms/sten	-	loss:	0.3998	- ac	curacv:	0.8194	- val loss:	0.5244	_	val_accuracv:	0.7656
Epoch	987/1500														
Epoch	[=====================================														
	[=====================================] -	- 09	4ms/step	-	loss:	0.3998	- ac	curacy:	0.8212	- val_loss:	0.5243	-	val_accuracy:	0.7656
18/18	[=====================================] -	- 09	6ms/step	-	loss:	0.3998	- ac	curacy:	0.8160	- val_loss:	0.5243	-	val_accuracy:	0.7656
18/18	[===========] -	- 0s	5ms/step	-	loss:	0.3997	- ac	curacy:	0.8194	- val_loss:	0.5243	-	val_accuracy:	0.7656
	991/1500 [===================================] -	- 09	5ms/step	-	loss:	0.3997	- ac	curacy:	0.8229	- val_loss:	0.5244	_	val_accuracy:	0.7656
poch	992/1500 [
poch	993/1500														
poch	[=====================================														
	[=====================================] -	- 09	5ms/step	-	loss:	0.3997	- ac	curacy:	0.8212	- val_loss:	0.5245	-	val_accuracy:	0.7656
18/18	[=====================================] -	- 09	4ms/step	-	loss:	0.3997	- ac	curacy:	0.8194	- val_loss:	0.5244	-	val_accuracy:	0.7656
18/18	[=========] -	- 0s	4ms/step	-	loss:	0.3996	- ac	curacy:	0.8212	- val_loss:	0.5244	-	val_accuracy:	0.7656
18/18	997/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.3997	- ac	curacy:	0.8194	- val_loss:	0.5244	-	val_accuracy:	0.7656
Epoch	998/1500 [======														
Epoch	999/1500 [===================================										_			_ ′	
Epoch	1000/1500								-		_				
	[======================================	- ا	- 0s	6ms/step	-	loss:	0.3996	- ac	curacy:	0.8212	- val_loss:	0.5245	-	val_accuracy:	0.7656
18/18	[=====================================] -	- 09	5ms/step	-	loss:	0.3995	- ac	curacy:	0.8229	- val_loss:	0.5246	-	val_accuracy:	0.7656
18/18	[] -	- 09	5ms/step	-	loss:	0.3997	- ac	curacy:	0.8194	- val_loss:	0.5246	-	val_accuracy:	0.7656
18/18	1003/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.3995	- ac	curacy:	0.8212	- val_loss:	0.5245	-	val_accuracy:	0.7656
Epoch	1004/1500 [
Epoch	1005/1500								-		_				
Epoch	[=====================================								-		_				
	[=====================================] -	- 09	5ms/step	-	loss:	0.3995	- ac	curacy:	0.8212	- val_loss:	0.5246	-	val_accuracy:	0.7656
18/18	[] -	- 0s	4ms/step	-	loss:	0.3996	- ac	curacy:	0.8194	- val_loss:	0.5246	-	val_accuracy:	0.7656
18/18	1008/1500 [] -	- 0s	5ms/step	-	loss:	0.3994	- ac	curacy:	0.8194	- val_loss:	0.5247	-	val_accuracy:	0.7656
	1009/1500 [] -	- 09	5ms/step	-	loss:	0.3994	- ac	curacy:	0.8212	- val_loss:	0.5247	_	val_accuracy:	0.7656
poch	1010/1500 [=========														
Epoch	1011/1500														
	[=====================================	- ا	- 09	7ms/step	-	loss:	0.3994	- ac	curacy:	บ.8212	- val_loss:	0.5248	-	val_accuracy:	0.7656
18/18	[=====================================] -	- 09	4ms/step	-	loss:	0.3994	- ac	curacy:	0.8212	- val_loss:	0.5247	-	val_accuracy:	0.7656
18/18	[=========] -	- 09	4ms/step	-	loss:	0.3993	- ac	curacy:	0.8212	- val_loss:	0.5247	-	val_accuracy:	0.7656
8/18	1014/1500 [===================================] -	- 0s	5ms/step	-	loss:	0.3993	- ac	curacy:	0.8212	- val_loss:	0.5248	-	val_accuracy:	0.7656
poch	1015/1500 [
poch	1016/1500														
poch	[=====================================														
	[======================================] -	- 0s	5ms/step	-	loss:	0.3992	- ac	curacy:	0.8212	- val_loss:	0.5249	-	val_accuracy:	0.7656
18/18	[=========] -	- 09	4ms/step	-	loss:	0.3993	- ac	curacy:	0.8229	- val_loss:	0.5249	-	val_accuracy:	0.7656
18/18	1019/1500 [===================================] -	- 0s	4ms/step	-	loss:	0.3992	- ac	curacy:	0.8229	- val_loss:	0.5249	-	val_accuracy:	0.7656
Epoch	1020/1500 [========														
Epoch	1021/1500								-		_				
	[=====================================														
	[] -	- 0s	5ms/step	-	loss:	0.3994	- ac	curacy:	0.8212	- val_loss:	0.5250	-	val_accuracy:	0.7656
18/18	1023/1500														0.7656
L8/18 Epoch L8/18	1023/1500 [1024/1500] -	- 0s	5ms/step	-	loss:	0.3991	- ac	curacy:	0.8212	val_loss:	0.5250	-	val_accuracy:	0.7656

8/18 poch 8/18 poch													
poch 8/18 poch	1025/1500	1	0.0	Ame /eton	1000		01		0 0220	1 1	0 5240		0.7000
8/18 poch	[======================================] -	ØS.	4ms/step	- 10SS	: 0.39	91 -	accuracy:	0.8229	- val_loss:	0.5249	· val_accuracy:	0./656
	[] -	0s	5ms/step	- loss	: 0.39	91 -	accuracy:	0.8229	- val_loss:	0.5250 -	val_accuracy:	0.7656
0/10	1027/1500	,	0-	For a distance	1	. 0 30	0.4		0.0000		0 5350		0.7656
	[======================================] -	05	Sms/step	- 1055	: 0.39	91 -	accuracy:	0.8229	- vai_ioss:	0.5250	· vai_accuracy:	0.7656
	[] -	0s	5ms/step	- loss	: 0.399	91 -	accuracy:	0.8229	- val_loss:	0.5250 -	val_accuracy:	0.7656
poch	1029/1500							-		_			
	1030/1500] -	0s	/ms/step	- loss	: 0.399	91 -	accuracy:	0.8229	- val_loss:	0.5251 -	val_accuracy:	v./656
	1030/1500] -	0s	6ms/sten	- loss	: 0.39	91 -	accuracv:	0.8229	- val loss:	0.5252 -	val_accuracv:	0.7656
poch	1031/1500							-		_			
	[] -	0s	7ms/step	- loss	: 0.39	91 -	accuracy:	0.8229	<pre>- val_loss:</pre>	0.5251 -	<pre>val_accuracy:</pre>	0.7656
	1032/1500	1 -	. ac	7ms/ston	- 1000	· a 300	01 _	accuracy:	0 8229	- val loss.	0 5252	val accuracy:	0 7656
	1033/1500	1 -	05	/iiis/scep	- 1055	. 0.33	JI -	accuracy.	0.0223	- vai_1055.	0.3232	· vai_accuracy.	0.7030
	[=========] -	0s	7ms/step	- loss	: 0.39	91 -	accuracy:	0.8229	- val_loss:	0.5251 -	val_accuracy:	0.7656
	1034/1500	,	0-	6 / - t	1	. 0 30	00		0.0000		0 5252		0.7656
	[======================================] -	05	ьms/step	- 1055	: 0.39	92 -	accuracy:	0.8229	- vai_ioss:	0.5252	· vai_accuracy:	0.7656
	[=========] -	0s	7ms/step	- loss	: 0.399	90 -	accuracy:	0.8229	- val_loss:	0.5252 -	val_accuracy:	0.7656
	1036/1500	_										_	
	[======================================] -	0s	6ms/step	- loss	: 0.39	89 -	accuracy:	0.8212	- val_loss:	0.5253 -	· val_accuracy:	0.7656
	[1 -	0s	6ms/step	- loss	: 0.399	90 -	accuracy:	0.8229	- val loss:	0.5253 -	val accuracy:	0.7656
poch	1038/1500												
	[======================================] -	0s	8ms/step	- loss	: 0.399	91 -	accuracy:	0.8229	- val_loss:	0.5253 -	<pre>val_accuracy:</pre>	0.7656
	1039/1500	1 -	. ac	6ms/ston	- 1000	· a 309	8a _	accuracy:	0 8229	- val loss.	0 5253	val accuracy:	0 7656
	1040/1500	1 -	05	oiis/step	- 1055	. 0.35	55 -	accuracy.	0.0223	- vai_1055.	0.3233	· vai_accuracy.	0.7030
	[] -	0s	6ms/step	- loss	: 0.39	89 -	accuracy:	0.8229	- val_loss:	0.5252 -	val_accuracy:	0.7656
poch	1041/1500												
	[======================================] -	0s	8ms/step	- loss	: 0.39	89 -	accuracy:	0.8229	- val_loss:	0.5254	· val_accuracy:	0.7656
	1042/1500	1	ar	9mc/c+0=	- 1000	· a 201	89	accuracy:	0 8330	- val locci	0 5254	val accuracy:	0 7656
	1043/1500	, -	US	23/ 2 ceb	1022	. 0.39	- ر	accuracy:	0.0229	.ar_topp:	J.J2J4 -	.uuccuracy:	030
8/18	[======] -	0s	7ms/step	- loss	: 0.39	89 -	accuracy:	0.8212	- val_loss:	0.5255 -	val_accuracy:	0.7656
	1044/1500	1	^	Cm= / - 1	1 -		00	2000-	0 0000	val 1-	0 5355	val as	0.7656
	[======================================	1 -	۷S	ums/step	- 10SS	. 0.39	- עט	accuracy:	0.8229	- vaT_TO22:	v.5255 -	· vai_accuracy:	U./000
8/18	[======================================] -	0s	8ms/step	- loss	: 0.39	88 -	accuracy:	0.8212	- val_loss:	0.5255 -	val_accuracy:	0.7656
poch	1046/1500												
	[======================================] -	0s	6ms/step	- loss	: 0.39	89 -	accuracy:	0.8229	- val_loss:	0.5256	· val_accuracy:	0.7656
	1047/1500	1 -	Qc.	5ms/ster	- 1000	: 0 30	88 -	accuracy	0,8212	- val locco	0.5257	val accuracy:	0.7656
	1048/1500	, -	J.5	22/ 2 CEb	1022	. 0.33	- 0.0	secui dey:	0.0212	1033;	J.JEJ/ .	/uz_accuracy:	
8/18	[======================================] -	0s	5ms/step	- loss	: 0.39	88 -	accuracy:	0.8212	- val_loss:	0.5257 -	val_accuracy:	0.7656
	1049/1500	1	^	7	٠.		00		0 0000	ua2 2	0 5355	ual	0.7656
	[======================================] -	۷S	/ms/step	- 10SS	. 0.39	იგ -	accuracy:	0.8229	- val_loss:	v.5257 -	· vai_accuracy:	v./656
	[1 -	0s	10ms/ster	- los	s: 0.39	988 -	- accuracy	: 0.8229	- val loss	0.5257	- val accuracy	: 0.7656
poch	1051/1500												
	[======================================] -	0s	8ms/step	- loss	: 0.39	87 -	accuracy:	0.8229	- val_loss:	0.5258 -	val_accuracy:	0.7656
	1052/1500	1 -	0s	8ms/sten	- loss	: 0.39	87 -	accuracy:	0.8229	- val loss:	0.5258	· val accuracy:	0.7656
poch	1053/1500												
	[] -	0s	7ms/step	- loss	: 0.39	87 -	accuracy:	0.8229	- val_loss:	0.5258 -	<pre>val_accuracy:</pre>	0.7656
	1054/1500	1	Q.c	7mc/ston	1000	. 0 201	00	2001112011	0 0220	val loss:	0 5250	val accumacy:	0.7656
	1055/1500	1 -	05	/iiis/scep	- 1055	. 0.35	00 -	accuracy.	0.0223	- vai_1055.	0.3233	· vai_accuracy.	0.7030
	[] -	0s	9ms/step	- loss	: 0.39	87 -	accuracy:	0.8229	<pre>- val_loss:</pre>	0.5258 -	<pre>val_accuracy:</pre>	0.7656
	1056/1500	,	0-	6 / - t	1	. 0 201	07		0.0000		0 5350		0.7656
	[======================================] -	ØS.	6ms/step	- loss	: 0.39	8/ -	accuracy:	0.8229	- val_loss:	0.5259 -	· val_accuracy:	0.7656
	[1 -	0s	9ms/step	- loss	: 0.39	87 -	accuracy:	0.8229	- val loss:	0.5259 -	val accuracy:	0.7656
poch	1058/1500												
	[] -	0s	6ms/step	- loss	: 0.39	86 -	accuracy:	0.8229	- val_loss:	0.5259	<pre>val_accuracy:</pre>	0.7656
	1059/1500	1 -	O<	8ms/sten	- 1055	: 0.30	86 -	accuracy.	0.8229	- val loss:	0.5260	val accuracy:	0.7656
	1060/1500	, -	J.5	22/ 2 cch	1022	. 0.33	- 0.0	secui dey:	0.0227	1033;	3.3200 -	/uz_accuracy:	
8/18	[] -	0s	6ms/step	- loss	: 0.39	86 -	accuracy:	0.8229	- val_loss:	0.5260 -	val_accuracy:	0.7656
	1061/1500	1	ο-	7mc/	1	. 6 30	06	2001125	0 0220	val 1	0 5360	val assure	0.7656
	[======================================	1 -	۷S	/ms/step	- 10SS	. 0.39	- 00	accuracy:	0.8229	- val_1022:	0.5260 -	· vai_accuracy:	U./000
	[========] -	0s	8ms/step	- loss	: 0.39	85 -	accuracy:	0.8229	- val_loss:	0.5260 -	val_accuracy:	0.7656
poch	1063/1500							-		_			
	1004/1500] -	0s	8ms/step	- loss	: 0.39	86 -	accuracy:	0.8229	- val_loss:	0.5259	· val_accuracy:	0.7656
	1064/1500	1	ar	7ms/stor	- 1000	: 0 200	85	acciiracii.	0.8220	- val locc	0.5260	val accuracy:	0.7656
	1065/1500	1 -	05	, 1113/ 5 Leb	- 1022	. 0.39		accurdcy:	0.0229	A01 ⁻ 1022;	J.J200 -	var_accuracy:	0.,050
8/18	[======================================] -	0s	9ms/step	- loss	: 0.39	85 -	accuracy:	0.8229	- val_loss:	0.5262 -	val_accuracy:	0.7656
	1066/1500	1	^	0	٠.		0.4		0 0000	ua2 2	0 5353	ual	0.7656
	[======================================] -	۷S	oms/step	- 10SS	. 0.39	64 -	accuracy:	0.8229	- val_loss:	v.5262 -	· vai_accuracy:	v./656
	[==============] -	0s	7ms/step	- loss	: 0.39	85 -	accuracy:	0.8229	- val_loss:	0.5262	val_accuracy:	0.7656
poch	1068/1500												
	[======================================] -	0s	5ms/step	- loss	: 0.39	85 -	accuracy:	0.8229	- val_loss:	0.5262 -	val_accuracy:	0.7656
	1069/1500	1 -	ac	5ms/stan	- 1000	: A 30	84 -	accuracy.	0.8220	- val locc	0.5262	val accuracy:	0.7656
	1070/1500	, -	J3	22/ 2 CEb	1022	. 0.33		secui dey:	0.0227	1033;	J.JEUZ .	/uz_accuracy:	
8/18	[======================================] -	0s	5ms/step	- loss	: 0.39	84 -	accuracy:	0.8229	- val_loss:	0.5262 -	<pre>val_accuracy:</pre>	0.7656
8/18 poch 8/18	1071/1500			F== /-+-	_		0.4						
8/18 poch 8/18 poch		1	0-					accumaci.	0000	- val lass:	0 5262	val accuman	0 7656
8/18 poch 8/18 poch 8/18	[] -	0s	oms/step	- loss	: 0.39	-	accuracy:	0.8229	- val_loss:	0.5263 -	val_accuracy:	0.7656
8/18 poch 8/18 poch 8/18 poch 8/18	[1072/1500 [-		_			
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================] -	0s	5ms/step	- loss	: 0.398	84 -	accuracy:	0.8229	- val_loss:	0.5264 -	· val_accuracy:	0.7656
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================] -	0s	5ms/step	- loss	: 0.398	84 -	accuracy:	0.8229	- val_loss:	0.5264 -	· val_accuracy:	0.7656
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch	[=====================================] -	0s 0s	5ms/step 5ms/step	- loss	: 0.398 : 0.398	84 - 84 -	accuracy:	0.8229 0.8229	- val_loss:	0.5264 - 0.5263 -	val_accuracy:	0.7656 0.7656
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=] -] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step	- loss - loss	: 0.398 : 0.398 : 0.398	84 - 84 - 83 -	accuracy: accuracy:	0.8229 0.8229 0.8229	- val_loss: - val_loss: - val_loss:	0.5264 - 0.5263 - 0.5265 -	val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=] -] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step	- loss - loss	: 0.398 : 0.398 : 0.398	84 - 84 - 83 -	accuracy: accuracy:	0.8229 0.8229 0.8229	- val_loss: - val_loss: - val_loss:	0.5264 - 0.5263 - 0.5265 -	val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================] -] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step	- loss - loss - loss - loss	: 0.398 : 0.398 : 0.398 : 0.398	84 - 84 - 83 -	accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229	- val_loss: - val_loss: - val_loss: - val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5264 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=] -] -] -	0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step	- loss - loss - loss - loss	: 0.398 : 0.398 : 0.398 : 0.398	84 - 84 - 83 -	accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229	- val_loss: - val_loss: - val_loss: - val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5264 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18 poch 8/18	[=====================================] -] -] -	0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step	- loss - loss - loss - loss	: 0.398 : 0.398 : 0.398 : 0.398	84 - 84 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5264 - 0.5265 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656
3/18 3/18	[=====================================] -] -] -] -	0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step	- loss	: 0.398 : 0.398 : 0.398 : 0.398 : 0.398 : 0.398	84 - 84 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5264 - 0.5265 - 0.5264 - 0.5265 - 0.5266 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656 0.7656
3/18 3/18	[=====================================] -] -] -] -	0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5264 - 0.5265 - 0.5264 - 0.5265 - 0.5266 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656 0.7656
3/18 3/18	[=====================================] -] -] -] -	0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step	- loss	: 0.398 : 0.398 : 0.398 : 0.398 : 0.398 : 0.398	84 - 84 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5265 - 0.5264 - 0.5266 - 0.5266 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5266 - 0.5266 - 0.5266 - 0.5267 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5266 - 0.5266 - 0.5266 - 0.5267 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5264 - 0.5266 - 0.5266 - 0.5267 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5264 - 0.5266 - 0.5266 - 0.5267 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5264 - 0.5266 - 0.5266 - 0.5267 - 0.5267 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -	0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 4ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5267 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -	0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 4ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5267 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step	- loss	: 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394 : 0.394	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5268 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 4ms/step 5ms/step	- loss	: 0.391 : 0.391	84 - 884 - 883 - 8	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229	- val_loss:	0.5264 - 0.5265 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5268 - 0.5268 - 0.5268 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -] -] -	0s 0s 0s 0s 0s 0s 0s 0s 0s	5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 4ms/step 5ms/step	- loss	: 0.391 : 0.391	84 - 884 - 883 - 8	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229 6.8229	- val_loss:	0.5264 - 0.5265 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5268 - 0.5268 - 0.5268 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -] -] -	9s 9s 9s 9s 9s 9s 9s 9s	5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 4ms/step 5ms/step 5ms/step	- loss	: 0.391 : 0.391	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5268 - 0.5269 - 0.5269 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -] -] -	9s 9s 9s 9s 9s 9s 9s 9s	5ms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 4ms/step 5ms/step 5ms/step	- loss	: 0.391 : 0.391	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5268 - 0.5269 - 0.5269 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================	-] -] -] -] -] -] -] -	0s	Sms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 4ms/step 5ms/step 5ms/step 6ms/step 6ms/step	- loss	: 0.391 : 0.391	84 - 84 - 83 - 83 - 83 - 83 - 83 - 83 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5263 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5269 - 0.5269 - 0.5269 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
8/18 poch 8/18 p	[=====================================] -] -] -] -] -] -] -	0s	Sms/step 5ms/step 6ms/step 5ms/step 5ms/step 5ms/step 5ms/step 5ms/step 4ms/step 4ms/step 5ms/step 6ms/step 5ms/step 5ms/step	- loss	: 0.391 : 0.391 : 0.392 : 0.393 : 0.394 : 0.394	84 - 84 - 883 - 883 - 883 - 883 - 883 - 883 - 883 - 883 - 883 - 882 - 88	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229 0.8229	- val_loss:	0.5264 - 0.5265 - 0.5266 - 0.5266 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5267 - 0.5269 - 0.5269 - 0.5269 - 0.5269 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656

	1089/1500											
	[======] 1090/1500	-	0s	4ms/step	- loss:	0.3980 -	accuracy:	0.8229 -	val_loss:	0.5270 -	val_accuracy:	0.7656
18/18	[=======]	-	0s	4ms/step	- loss:	0.3982 -	accuracy:	0.8229 -	val_loss:	0.5271 -	val_accuracy:	0.7656
	1091/1500	_	as	5ms/sten	- loss.	n 3980 -	accuracy.	0 8229 -	val loss:	0 5271 -	val accuracy:	0 7656
Epoch	1092/1500											
	[=======] 1093/1500	-	0s	5ms/step	- loss:	0.3980 -	accuracy:	0.8229 -	val_loss:	0.5271 -	val_accuracy:	0.7656
	[=======]	-	0s	5ms/step	- loss:	0.3980 -	accuracy:	0.8247 -	val_loss:	0.5272 -	val_accuracy:	0.7656
	1094/1500	_	as	5ms/sten	- loss.	0 3981 -	accuracy.	0 8229 -	val loss:	0 5272 -	val accuracy:	0 7656
Epoch	1095/1500											
	[=======] 1096/1500	-	0s	4ms/step	- loss:	0.3981 -	accuracy:	0.8229 -	val_loss:	0.5273 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3981 -	accuracy:	0.8247 -	val_loss:	0.5273 -	val_accuracy:	0.7656
	1097/1500	_	as	5ms/sten	- loss.	a 398a -	accuracy.	0 8229 -	val loss:	0 5273 -	val accuracy:	0 7656
Epoch	1098/1500											
	[======] 1099/1500	-	0s	5ms/step	- loss:	0.3981 -	accuracy:	0.8229 -	val_loss:	0.5274 -	val_accuracy:	0.7656
18/18	[======]	-	0s	5ms/step -	- loss:	0.3980 -	accuracy:	0.8229 -	val_loss:	0.5276 -	val_accuracy:	0.7656
	1100/1500	_	as	5ms/sten	- loss.	0 3979 -	accuracy.	0 8229 -	val loss:	0 5277 -	val accuracy:	0 7656
Epoch	1101/1500											
	[=======] 1102/1500	-	0s	5ms/step	- loss:	0.3980 -	accuracy:	0.8229 -	val_loss:	0.5276 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3979 -	accuracy:	0.8247 -	val_loss:	0.5277 -	val_accuracy:	0.7656
	1103/1500	_	9s	5ms/sten	- loss:	0.3979 -	accuracy:	0.8247 -	val loss:	0.5277 -	val accuracy:	0.7656
Epoch	1104/1500											
	[] 1105/1500	-	0s	5ms/step	- loss:	0.3979 -	accuracy:	0.8212 -	val_loss:	0.5277 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step -	- loss:	0.3979 -	accuracy:	0.8229 -	val_loss:	0.5277 -	val_accuracy:	0.7656
	1106/1500	_	0s	5ms/step	- loss:	0.3979 -	accuracy:	0.8247 -	val loss:	0.5278 -	val accuracy:	0.7656
Epoch	1107/1500											
	[=======] 1108/1500	-	ØS.	6ms/step	- loss:	0.3978 -	accuracy:	0.8229 -	· val_loss:	0.52/8 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3978 -	accuracy:	0.8247 -	val_loss:	0.5279 -	val_accuracy:	0.7656
	1109/1500	-	0s	5ms/step	- loss:	0.3978 -	accuracy:	0.8229 -	val_loss:	0.5279 -	val_accuracy:	0.7656
Epoch	1110/1500 []						-		_			
	1111/1500	-	05	oms/step	- 1055:	0.3976 -	accuracy:	0.0247 -	. A91_1022:	0.5280 -	vai_accuracy:	0.7050
	[======] 1112/1500	-	0s	5ms/step	- loss:	0.3978 -	accuracy:	0.8229 -	val_loss:	0.5280 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3978 -	accuracy:	0.8229 -	val_loss:	0.5280 -	val_accuracy:	0.7656
	1113/1500	_	95	5ms/sten	- loss:	0.3978 -	accuracy:	0.8212 -	val loss:	0.5281 -	val accuracy:	0.7656
Epoch	1114/1500											
	[=======] 1115/1500	-	0s	4ms/step	- loss:	0.3977 -	accuracy:	0.8229 -	val_loss:	0.5281 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3976 -	accuracy:	0.8229 -	val_loss:	0.5281 -	val_accuracy:	0.7656
	1116/1500	-	0s	5ms/step	- loss:	0.3977 -	accuracy:	0.8229 -	val_loss:	0.5282 -	val_accuracy:	0.7656
	1117/1500	_	ac	Smc/stan .	- 1000	0 3977 -	accuracy.	0 8229 -	val loss:	0 5282 -	val accuracy:	0 7656
	1118/1500		03	эшэ/ эсер	1033.	0.3377	accuracy.	0.0225	vai_1033.	0.5202	var_accuracy.	0.7030
	[=======] 1119/1500	-	0s	6ms/step	- loss:	0.3976 -	accuracy:	0.8229 -	val_loss:	0.5283 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step -	- loss:	0.3976 -	accuracy:	0.8212 -	val_loss:	0.5283 -	val_accuracy:	0.7656
	1120/1500	_	0s	4ms/step	- loss:	0.3977 -	accuracy:	0.8212 -	val loss:	0.5284 -	val accuracy:	0.7656
Epoch	1121/1500											
	[========] 1122/1500	-	05	oms/step	- 1055:	0.3976 -	accuracy:	0.0212 -	. A91_1022:	0.5264 -	vai_accuracy:	0.7050
	[======] 1123/1500	-	0s	5ms/step	- loss:	0.3976 -	accuracy:	0.8212 -	val_loss:	0.5285 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.3976 -	accuracy:	0.8229 -	val_loss:	0.5285 -	val_accuracy:	0.7656
Epoch 18/18	1124/1500	_	0s	5ms/step	- loss:	0.3975 -	accuracv:	0.8229 -	val loss:	0.5286 -	val_accuracy:	0.7656
Epoch	1125/1500											
	[=======] 1126/1500	-	05	oms/step	- 1055:	0.3975 -	accuracy:	0.0212 -	. A91_1022:	0.5287 -	vai_accuracy:	0.7050
	[======] 1127/1500	-	0s	4ms/step	- loss:	0.3975 -	accuracy:	0.8229 -	val_loss:	0.5287 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3975 -	accuracy:	0.8229 -	val_loss:	0.5288 -	val_accuracy:	0.7656
	1128/1500	_	as	5ms/sten	- loss.	0 3975 -	accuracy.	0 8229 -	val loss:	0 5287 -	val accuracy:	0 7656
Epoch	1129/1500						,		_		_ ′	
	[] 1130/1500	-	0s	6ms/step	- loss:	0.3974 -	accuracy:	0.8229 -	val_loss:	0.5287 -	val_accuracy:	0.7656
18/18	[======]	-	0s	5ms/step	- loss:	0.3974 -	accuracy:	0.8229 -	val_loss:	0.5288 -	val_accuracy:	0.7656
	1131/1500	_	0s	5ms/step	- loss:	0.3973 -	accuracy:	0.8212 -	val_loss:	0.5288 -	val_accuracv:	0.7656
	1132/1500		٥-	F (-+	1	0 2074		0.0104		0 5200		0.7656
	[=======] 1133/1500	-	05	Sms/step -	- 10SS:	0.3974 -	accuracy:	0.8194 -	val_loss:	0.5289 -	vai_accuracy:	0.7656
	[========]	-	0s	5ms/step	- loss:	0.3974 -	accuracy:	0.8229 -	val_loss:	0.5290 -	val_accuracy:	0.7656
	1134/1500	-	0s	5ms/step	- loss:	0.3974 -	accuracy:	0.8212 -	val_loss:	0.5290 -	val_accuracy:	0.7656
	1135/1500		ac	Emc/ston	1000	0 2074	accupacy:	0 0212	val loss:	0 5200	val accuracy:	0 7656
Epoch	1136/1500											
	[=======] 1137/1500	-	0s	5ms/step	- loss:	0.3973 -	accuracy:	0.8212 -	val_loss:	0.5290 -	val_accuracy:	0.7656
18/18	[]	-	0s	4ms/step	- loss:	0.3973 -	accuracy:	0.8229 -	val_loss:	0.5291 -	val_accuracy:	0.7656
	1138/1500	_	9s	6ms/sten	- loss:	0.3973 -	accuracy:	0.8212 -	val loss:	0.5291 -	val accuracy:	0.7656
Epoch	1139/1500											
	[=======] 1140/1500	-	ØS.	4ms/step	- loss:	0.39/3 -	accuracy:	0.8212 -	· val_loss:	0.5292 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3973 -	accuracy:	0.8194 -	val_loss:	0.5292 -	val_accuracy:	0.7656
	1141/1500	_	0s	4ms/step	- loss:	0.3973 -	accuracy:	0.8194 -	val_loss:	0.5294 -	val_accuracy:	0.7656
	1142/1500		0-	Fms/stan	10001	0 2072		0.0104	ual lassi	0 5202		0.7656
	[=======] 1143/1500	-	05	oms/step	- 1055:	0.3973 -	accuracy:	0.8194 -	. A91_1022:	0.5295 -	vai_accuracy:	0.7050
	[=======]	-	0s	5ms/step	- loss:	0.3972 -	accuracy:	0.8194 -	val_loss:	0.5293 -	val_accuracy:	0.7656
18/18	1144/1500 [======]	-	0s	5ms/step	- loss:	0.3973 -	accuracy:	0.8212 -	val_loss:	0.5293 -	val_accuracy:	0.7656
	1145/1500	_	٥<	5ms/sten	- loss.	0.3972 -	accuracy.	0.8194	val loss	0.5293 -	val accuracy:	0.7656
Epoch	1146/1500											
	[======] 1147/1500	-	0s	5ms/step	- loss:	0.3972 -	accuracy:	0.8212 -	val_loss:	0.5293 -	val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3971 -	accuracy:	0.8194 -	val_loss:	0.5294 -	val_accuracy:	0.7656
	1148/1500	_	0s	5ms/step	- loss:	0.3972 -	accuracy:	0.8194 -	val_loss:	0.5295 -	val_accuracv:	0.7656
	1149/1500											
Epoch	[υS	-ms/scep -	1082;	U.39/I -	accuracy:	0.0194 -	AaT_T022:	0.3295 -	var_accuracy:	0./000
Epoch 18/18 Epoch	[=======] 1150/1500											
Epoch 18/18 Epoch 18/18	1150/1500 []			4ms/step	- loss:	0.3971 -	accuracy:	0.8194 -	val_loss:	0.5296 -	val_accuracy:	0.7708
Epoch 18/18 Epoch 18/18 Epoch 18/18	1150/1500 [] 1151/1500 []	-	0s									
Epoch 18/18 Epoch 18/18 Epoch 18/18 Epoch	1150/1500 [] 1151/1500	- 1	0s 0s	5ms/step	- loss:	0.3971 -	accuracy:	0.8194 -	val_loss:	0.5297 -	val_accuracy:	0.7708

Epoch	1153/1500											
	[=========] 1154/1500] -	0s	4ms/step	- loss:	0.3972 -	accuracy:	0.8194 -	val_loss:	0.5298	- val_accuracy:	0.7708
18/18	[=======] 1155/1500] -	0s	4ms/step	- loss:	0.3970 -	accuracy:	0.8194 -	val_loss:	0.5298	- val_accuracy:	0.7708
18/18	[======================================] -	0s	6ms/step	- loss:	0.3970 -	accuracy:	0.8194 -	val_loss:	0.5299	- val_accuracy:	0.7708
	1156/1500 [==========]] -	0s	5ms/step	- loss:	0.3972 -	accuracy:	0.8194 -	val_loss:	0.5299	- val_accuracy:	0.7708
	1157/1500 []] -	0s	4ms/step	- loss:	0.3970 -	accuracy:	0.8194 -	val_loss:	0.5299	- val_accuracy:	0.7708
Epoch	1158/1500 [=======]											
Epoch	[1159/1500 [=======]						-		_			
Epoch	1160/1500						-		_			
	[===========] 1161/1500] -	0s	5ms/step	- loss:	0.3968 -	accuracy:	0.8194 -	val_loss:	0.5300	- val_accuracy:	0.7708
	[=========] 1162/1500] -	0s	5ms/step	- loss:	0.3969 -	accuracy:	0.8194 -	val_loss:	0.5300	- val_accuracy:	0.7708
18/18	[=======] 1163/1500] -	0s	6ms/step	- loss:	0.3969 -	accuracy:	0.8194 -	val_loss:	0.5301	- val_accuracy:	0.7708
18/18	[]] -	0s	5ms/step	- loss:	0.3968 -	accuracy:	0.8194 -	val_loss:	0.5302	- val_accuracy:	0.7708
18/18	1164/1500 [========]] -	0s	5ms/step	- loss:	0.3968 -	accuracy:	0.8194 -	val_loss:	0.5302	- val_accuracy:	0.7708
	1165/1500 [==========]] -	0s	4ms/step	- loss:	0.3968 -	accuracy:	0.8194 -	val_loss:	0.5303	- val_accuracy:	0.7708
	1166/1500 []] -	0s	5ms/step	- loss:	0.3967 -	accuracy:	0.8194 -	val_loss:	0.5303	- val_accuracy:	0.7708
	1167/1500 [========]	1 -	0s	4ms/step	- loss:	0.3968 -	accuracy:	0.8194 -	val loss:	0.5303	- val accuracy:	0.7708
Epoch	1168/1500 [=======]						-		_			
Epoch	1169/1500						,		-		- /	
Epoch	[============] 1170/1500											
	[===========] 1171/1500] -	0s	5ms/step	- loss:	0.3966 -	accuracy:	0.8194 -	val_loss:	0.5305	- val_accuracy:	0.7708
18/18	[==========] 1172/1500] -	0s	5ms/step	- loss:	0.3967 -	accuracy:	0.8194 -	val_loss:	0.5305	- val_accuracy:	0.7708
18/18	[========] 1173/1500] -	0s	5ms/step	- loss:	0.3967 -	accuracy:	0.8194 -	val_loss:	0.5307	- val_accuracy:	0.7708
18/18	[]] -	0s	7ms/step	- loss:	0.3967 -	accuracy:	0.8194 -	val_loss:	0.5307	- val_accuracy:	0.7708
18/18	1174/1500 []] -	0s	6ms/step	- loss:	0.3967 -	accuracy:	0.8194 -	val_loss:	0.5307	- val_accuracy:	0.7708
	1175/1500 [=========]] -	0s	6ms/step	- loss:	0.3966 -	accuracy:	0.8194 -	val_loss:	0.5306	- val_accuracy:	0.7708
18/18	1176/1500 []] -	0s	6ms/step	- loss:	0.3966 -	accuracy:	0.8194 -	val_loss:	0.5307	- val_accuracy:	0.7708
Epoch	1177/1500 []						-		_			
Epoch	1178/1500 [=======]											
Epoch	1179/1500											
Epoch	[========] 1180/1500											
Epoch	[=====================================											
	[=========] 1182/1500] -	0s	7ms/step	- loss:	0.3965 -	accuracy:	0.8194 -	val_loss:	0.5311	- val_accuracy:	0.7708
18/18	[=========] 1183/1500] -	0s	5ms/step	- loss:	0.3965 -	accuracy:	0.8194 -	val_loss:	0.5310	- val_accuracy:	0.7708
18/18	[========] 1184/1500] -	0s	6ms/step	- loss:	0.3965 -	accuracy:	0.8194 -	val_loss:	0.5310	- val_accuracy:	0.7708
18/18	[]] -	0s	8ms/step	- loss:	0.3964 -	accuracy:	0.8194 -	val_loss:	0.5310	- val_accuracy:	0.7708
18/18	1185/1500 [========]] -	0s	7ms/step	- loss:	0.3964 -	accuracy:	0.8194 -	val_loss:	0.5311	- val_accuracy:	0.7708
	1186/1500 [=========]] -	0s	7ms/step	- loss:	0.3964 -	accuracy:	0.8194 -	val_loss:	0.5311	- val_accuracy:	0.7708
	1187/1500 []] -	0s	8ms/step	- loss:	0.3964 -	accuracy:	0.8194 -	val_loss:	0.5312	- val_accuracy:	0.7708
	1188/1500 [=======]	1 -	0s	6ms/sten	- loss:	0.3964 -	accuracy:	0.8194 -	val loss:	0.5312	- val accuracy:	0.7708
Epoch	[1189/1500 [=======]						,		-		- /	
Epoch	1190/1500						-		_			
Epoch	[=========] 1191/1500						,		-		- /	
	[=====================================] -	0s	7ms/step	- loss:	0.3963 -	accuracy:	0.8194 -	val_loss:	0.5315	- val_accuracy:	0.7708
	[===========] 1193/1500] -	0s	6ms/step	- loss:	0.3963 -	accuracy:	0.8177 -	val_loss:	0.5316	- val_accuracy:	0.7708
	[=========] 1194/1500] -	0s	5ms/step	- loss:	0.3964 -	accuracy:	0.8194 -	val_loss:	0.5316	- val_accuracy:	0.7708
18/18	[]] -	0s	6ms/step	- loss:	0.3963 -	accuracy:	0.8194 -	val_loss:	0.5316	- val_accuracy:	0.7708
18/18	1195/1500 [========]] -	0s	6ms/step	- loss:	0.3963 -	accuracy:	0.8194 -	val_loss:	0.5317	- val_accuracy:	0.7708
18/18	1196/1500 [=========]] -	0s	7ms/step	- loss:	0.3962 -	accuracy:	0.8194 -	val_loss:	0.5316	- val_accuracy:	0.7708
18/18	1197/1500 [========]] -	0s	7ms/step	- loss:	0.3963 -	accuracy:	0.8194 -	val_loss:	0.5316	- val_accuracy:	0.7708
	1198/1500 []] -	0s	6ms/step	- loss:	0.3963 -	accuracy:	0.8194 -	val_loss:	0.5316	- val_accuracv:	0.7708
Epoch	1199/1500 [=======]						-		_			
Epoch	[] 1200/1500 []						,		_			
Epoch	1201/1500						-		_			
Epoch	[=======] 1202/1500						-		_			
Epoch	[=====================================											
	[=========] 1204/1500] -	0s	7ms/step	- loss:	0.3962 -	accuracy:	0.8177 -	val_loss:	0.5320	- val_accuracy:	0.7708
18/18	[=======] 1205/1500] -	0s	8ms/step	- loss:	0.3962 -	accuracy:	0.8177 -	val_loss:	0.5320	- val_accuracy:	0.7708
18/18	[=======] 1206/1500] -	0s	6ms/step	- loss:	0.3961 -	accuracy:	0.8177 -	val_loss:	0.5320	- val_accuracy:	0.7708
18/18	[==========]] -	0s	7ms/step	- loss:	0.3961 -	accuracy:	0.8177 -	val_loss:	0.5321	- val_accuracy:	0.7708
18/18	1207/1500 []] -	0s	6ms/step	- loss:	0.3961 -	accuracy:	0.8177 -	val_loss:	0.5321	- val_accuracy:	0.7708
18/18	1208/1500 [=======]] -	0s	7ms/step	- loss:	0.3962 -	accuracy:	0.8194 -	val_loss:	0.5321	- val_accuracy:	0.7708
Epoch	1209/1500 [=======]						-		_			
Epoch	[] 1210/1500 []						-		_			
Epoch	1211/1500											
Epoch	[=========] 1212/1500											
18/18	[==========] 1213/1500] -	0s	6ms/step	- loss:	0.3961 -	accuracy:	0.8177 -	val_loss:	0.5322	- val_accuracy:	0.7708
18/18	[=======] 1214/1500] -	0s	7ms/step	- loss:	0.3960 -	accuracy:	0.8194 -	val_loss:	0.5321	- val_accuracy:	0.7708
18/18	[========] 1215/1500] -	0s	10ms/step	- loss	: 0.3960	- accuracy	: 0.8177	- val_loss	: 0.5321	- val_accuracy	. 0.7708
18/18	[]] -	0s	6ms/step	- loss:	0.3960 -	accuracy:	0.8194 -	val_loss:	0.5322	- val_accuracy:	0.7708
	1216/1500 [=======]] -	0s	5ms/step	- loss:	0.3960 -	accuracy:	0.8177 -	val_loss:	0.5323	- val_accuracy:	0.7708

	1217/1500 [=======]	_	ac	6ms/sten	- 1055	0 3962 -	accuracy:	0 8177 -	val loss:	0 5323	- val accuracy:	0 7708
Epoch	1218/1500						-		_			
Epoch	[========] 1219/1500											
	[==========] 1220/1500	-	0s	5ms/step	- loss:	0.3959 -	accuracy:	0.8177 -	val_loss:	0.5324	- val_accuracy:	0.7708
	[=========] 1221/1500	-	0s	5ms/step	- loss:	0.3959 -	accuracy:	0.8177 -	val_loss:	0.5324	- val_accuracy:	0.7708
18/18	[=========] 1222/1500	-	0s	5ms/step	- loss:	0.3960 -	accuracy:	0.8177 -	val_loss:	0.5325	- val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.3959 -	accuracy:	0.8177 -	val_loss:	0.5326	- val_accuracy:	0.7708
18/18	1223/1500 [=======]	-	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5326	- val_accuracy:	0.7708
18/18	1224/1500 [=========]	-	0s	5ms/step	- loss:	0.3959 -	accuracy:	0.8177 -	val_loss:	0.5327	- val_accuracy:	0.7708
	1225/1500 []	_	0s	5ms/step	- loss:	0.3959 -	accuracy:	0.8177 -	val_loss:	0.5326	- val_accuracy:	0.7708
	1226/1500 []	_	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val loss:	0.5326	- val accuracv:	0.7708
Epoch	1227/1500 [=======]											
Epoch	1228/1500 [=======]						-		_			
Epoch	1229/1500											
Epoch	[=======] 1230/1500											
Epoch	[========] 1231/1500						-		_			
Epoch	[=========] 1232/1500						-		_			
	[=======] 1233/1500	-	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5328	- val_accuracy:	0.7708
	[=======] 1234/1500	-	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5329	- val_accuracy:	0.7708
18/18	[=======] 1235/1500	-	0s	6ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5330	- val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5330	- val_accuracy:	0.7708
18/18	1236/1500 [=========]	-	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5330	- val_accuracy:	0.7708
18/18	1237/1500 [=======]	-	0s	5ms/step	- loss:	0.3957 -	accuracy:	0.8177 -	val_loss:	0.5331	- val_accuracy:	0.7708
	1238/1500 [=========]	-	0s	6ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5331	- val_accuracy:	0.7708
	1239/1500 [=========]	-	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5331	- val_accuracy:	0.7656
	1240/1500 []	_	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val loss:	0.5332	- val accuracy:	0.7708
Epoch	1241/1500 []											
Epoch	1242/1500 []											
Epoch	1243/1500											
Epoch	[=======] 1244/1500											
Epoch	[=======] 1245/1500											
	[=========] 1246/1500	-	0s	5ms/step	- loss:	0.3958 -	accuracy:	0.8177 -	val_loss:	0.5334	- val_accuracy:	0.7708
	[=======] 1247/1500	-	0s	5ms/step	- loss:	0.3957 -	accuracy:	0.8177 -	val_loss:	0.5335	- val_accuracy:	0.7708
18/18	[========] 1248/1500	-	0s	5ms/step	- loss:	0.3956 -	accuracy:	0.8177 -	val_loss:	0.5335	- val_accuracy:	0.7708
18/18	[=======] 1249/1500	-	0s	5ms/step	- loss:	0.3956 -	accuracy:	0.8177 -	val_loss:	0.5335	- val_accuracy:	0.7708
18/18	[=======] 1250/1500	-	0s	6ms/step	- loss:	0.3957 -	accuracy:	0.8177 -	val_loss:	0.5336	- val_accuracy:	0.7708
18/18	[]	-	0s	5ms/step	- loss:	0.3956 -	accuracy:	0.8177 -	val_loss:	0.5337	- val_accuracy:	0.7708
18/18	1251/1500 [========]	-	0s	6ms/step	- loss:	0.3957 -	accuracy:	0.8177 -	val_loss:	0.5337	- val_accuracy:	0.7708
18/18	1252/1500 [=======]	-	0s	5ms/step	- loss:	0.3956 -	accuracy:	0.8177 -	val_loss:	0.5338	- val_accuracy:	0.7708
	1253/1500 [=========]	-	0s	5ms/step	- loss:	0.3957 -	accuracy:	0.8177 -	val_loss:	0.5336	- val_accuracy:	0.7656
	1254/1500 [=========]	-	0s	5ms/step	- loss:	0.3957 -	accuracy:	0.8177 -	val_loss:	0.5337	- val_accuracy:	0.7656
	1255/1500 [=========]	_	0s	5ms/step	- loss:	0.3956 -	accuracy:	0.8177 -	val_loss:	0.5337	- val_accuracy:	0.7656
	1256/1500 []	_	0s	5ms/step	- loss:	0.3956 -	accuracy:	0.8177 -	val loss:	0.5338	- val accuracv:	0.7708
Epoch	1257/1500 []						-		_			
Epoch	1258/1500 [=======]											
Epoch	1259/1500											
Epoch	[======] 1260/1500											
Epoch	[=======] 1261/1500											
Epoch	[========] 1262/1500											
Epoch	[=========] 1263/1500						-		_			
	[========] 1264/1500	-	0s	5ms/step	- loss:	0.3955 -	accuracy:	0.8177 -	val_loss:	0.5341	- val_accuracy:	0.7656
18/18	[========] 1265/1500	-	0s	5ms/step	- loss:	0.3955 -	accuracy:	0.8177 -	val_loss:	0.5342	- val_accuracy:	0.7656
18/18	[=======] 1266/1500	-	0s	4ms/step	- loss:	0.3955 -	accuracy:	0.8177 -	val_loss:	0.5341	<pre>- val_accuracy:</pre>	0.7656
18/18	[=======] 1267/1500	-	0s	5ms/step	- loss:	0.3955 -	accuracy:	0.8177 -	val_loss:	0.5342	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3955 -	accuracy:	0.8177 -	val_loss:	0.5343	- val_accuracy:	0.7656
18/18	1268/1500 [========]	-	0s	5ms/step	- loss:	0.3954 -	accuracy:	0.8177 -	val_loss:	0.5342	- val_accuracy:	0.7656
18/18	1269/1500 [=======]	-	0s	5ms/step	- loss:	0.3956 -	accuracy:	0.8177 -	val_loss:	0.5343	- val_accuracy:	0.7656
18/18	1270/1500 [=========]	-	0s	5ms/step	- loss:	0.3955 -	accuracy:	0.8177 -	val_loss:	0.5344	- val_accuracy:	0.7656
	1271/1500 [=======]	_	0s	5ms/step	- loss:	0.3955 -	accuracy:	0.8177 -	val_loss:	0.5344	- val_accuracy:	0.7656
Epoch	1272/1500 [=======]						-		_			
Epoch	1273/1500 [=======]						-		_			
Epoch	1274/1500 [=======]						-		_			
Epoch	1275/1500											
Epoch	[======] 1276/1500											
Epoch	[=======] 1277/1500											
Epoch	[========] 1278/1500											
	[========] 1279/1500	-	0s	6ms/step	- loss:	0.3953 -	accuracy:	0.8177 -	val_loss:	0.5344	- val_accuracy:	0.7656
18/18	[=======] 1280/1500	-	0s	5ms/step	- loss:	0.3953 -	accuracy:	0.8177 -	val_loss:	0.5345	- val_accuracy:	0.7656
	[]	-	0s	5ms/step	- loss:	0.3953 -	accuracy:	0.8177 -	val_loss:	0.5345	- val_accuracy:	0.7656

Epoch	1281/1500											
18/18	[=========] 1282/1500	-	0s	5ms/step	- loss:	0.3952 -	accuracy:	0.8177 -	val_loss:	0.5346	- val_accuracy:	0.7656
18/18	[=========]	-	0s	5ms/step	- loss:	0.3953 -	accuracy:	0.8177 -	val_loss:	0.5346	- val_accuracy:	0.7656
	1283/1500 [==========]	-	0s	5ms/step	- loss:	0.3952 -	accuracy:	0.8177 -	val_loss:	0.5346	- val_accuracy:	0.7656
Epoch	1284/1500											
Epoch	[========] 1285/1500											
	[==========] 1286/1500	-	0s	5ms/step	- loss:	0.3952 -	accuracy:	0.8177 -	val_loss:	0.5348	- val_accuracy:	0.7656
	[=========] 1287/1500	-	0s	5ms/step	- loss:	0.3953 -	accuracy:	0.8177 -	val_loss:	0.5348	- val_accuracy:	0.7656
18/18	[=========]	-	0s	5ms/step	- loss:	0.3952 -	accuracy:	0.8177 -	val_loss:	0.5347	- val_accuracy:	0.7656
	1288/1500 []	-	0s	5ms/step	- loss:	0.3952 -	accuracy:	0.8177 -	val_loss:	0.5348	- val_accuracy:	0.7656
	- 1289/1500 []	I -	۵s	5ms/sten	- loss:	0 3953 -	accuracy.	0 8177 -	- val loss:	0 5347	- val accuracy:	0 7656
Epoch	1290/1500						-		_			
Epoch	[==========] 1291/1500											
	[===========] 1292/1500	-	0s	5ms/step	- loss:	0.3952 -	accuracy:	0.8177 -	val_loss:	0.5348	- val_accuracy:	0.7656
18/18	[=========]	-	0s	5ms/step	- loss:	0.3953 -	accuracy:	0.8194 -	val_loss:	0.5348	- val_accuracy:	0.7656
18/18	1293/1500 [=========]	-	0s	6ms/step	- loss:	0.3951 -	accuracy:	0.8177 -	val_loss:	0.5349	- val_accuracy:	0.7656
	1294/1500 [=========]	-	0s	5ms/step	- loss:	0.3951 -	accuracy:	0.8177 -	val loss:	0.5349	- val accuracy:	0.7656
Epoch	1295/1500 [=======]						-		_			
Epoch	1296/1500						-		_			
	[==========] 1297/1500	-	0s	5ms/step	- loss:	0.3952 -	accuracy:	0.8177 -	val_loss:	0.5351	- val_accuracy:	0.7656
	[=========] 1298/1500	-	0s	5ms/step	- loss:	0.3951 -	accuracy:	0.8194 -	val_loss:	0.5351	- val_accuracy:	0.7656
18/18	[==========]	-	0s	5ms/step	- loss:	0.3952 -	accuracy:	0.8177 -	val_loss:	0.5351	- val_accuracy:	0.7656
	1299/1500 [========]	-	0s	6ms/step	- loss:	0.3951 -	accuracy:	0.8177 -	val_loss:	0.5351	- val_accuracy:	0.7656
	1300/1500 [=========]	l -	0s	5ms/sten	- loss:	0.3951 -	accuracy:	0.8177 -	val loss:	0.5352	- val accuracy:	0.7656
Epoch	1301/1500											
Epoch	[========] 1302/1500											
	[=========] 1303/1500	-	0s	5ms/step	- loss:	0.3950 -	accuracy:	0.8194 -	val_loss:	0.5353	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3951 -	accuracy:	0.8177 -	val_loss:	0.5353	- val_accuracy:	0.7656
18/18	1304/1500 [==========]	-	0s	6ms/step	- loss:	0.3951 -	accuracy:	0.8194 -	val_loss:	0.5353	- val_accuracy:	0.7656
	1305/1500 [==========]	-	0s	5ms/step	- loss:	0.3949 -	accuracy:	0.8194 -	val_loss:	0.5353	- val_accuracy:	0.7656
Epoch	- 1306/1500 []											
Epoch	1307/1500											
	[==========] 1308/1500	-	0s	5ms/step	- loss:	0.3950 -	accuracy:	0.81// -	· val_loss:	0.5354	- val_accuracy:	0.7656
	[=========] 1309/1500	-	0s	5ms/step	- loss:	0.3950 -	accuracy:	0.8194 -	val_loss:	0.5353	- val_accuracy:	0.7656
18/18	[=========]	-	0s	5ms/step	- loss:	0.3950 -	accuracy:	0.8177 -	val_loss:	0.5352	- val_accuracy:	0.7656
18/18	1310/1500 [=========]	-	0s	4ms/step	- loss:	0.3949 -	accuracy:	0.8177 -	val_loss:	0.5353	- val_accuracy:	0.7656
	1311/1500 [=========]	-	0s	5ms/step	- loss:	0.3950 -	accuracy:	0.8194 -	val_loss:	0.5353	- val_accuracy:	0.7656
Epoch	1312/1500 [========]						-		_			
Epoch	1313/1500						-		_			
	[=========] 1314/1500	-	0s	5ms/step	- loss:	0.3949 -	accuracy:	0.8194 -	· val_loss:	0.5354	- val_accuracy:	0.7656
	[=========] 1315/1500	-	0s	5ms/step	- loss:	0.3949 -	accuracy:	0.8194 -	val_loss:	0.5353	- val_accuracy:	0.7656
18/18	[=========]	-	0s	6ms/step	- loss:	0.3949 -	accuracy:	0.8177 -	val_loss:	0.5353	- val_accuracy:	0.7656
18/18	1316/1500 [==========]	-	0s	5ms/step	- loss:	0.3949 -	accuracy:	0.8194 -	val_loss:	0.5354	- val_accuracy:	0.7656
	1317/1500 [==========]	-	0s	5ms/step	- loss:	0.3949 -	accuracy:	0.8194 -	val_loss:	0.5352	- val_accuracy:	0.7656
Epoch	- 1318/1500 []											
Epoch	1319/1500						-		_			
Epoch	[==========] 1320/1500						-		_			
	[=========] 1321/1500	-	0s	6ms/step	- loss:	0.3948 -	accuracy:	0.8194 -	val_loss:	0.5353	- val_accuracy:	0.7656
18/18	[=======]	-	0s	6ms/step	- loss:	0.3948 -	accuracy:	0.8194 -	val_loss:	0.5354	- val_accuracy:	0.7656
18/18	1322/1500 [==========]	-	0s	6ms/step	- loss:	0.3948 -	accuracy:	0.8194 -	val_loss:	0.5355	- val_accuracy:	0.7656
	1323/1500 [=========]	-	0s	7ms/step	- loss:	0.3947 -	accuracy:	0.8194 -	val_loss:	0.5356	- val_accuracy:	0.7656
	1324/1500 []	ı -	۵s	6ms/sten	- loss:	0 3947 -	accuracy:	a 8194 -	val loss:	0 5356	- val accuracy:	0 7656
Epoch	1325/1500						-		_			
Epoch	[=========] 1326/1500											
	[==========] 1327/1500	-	0s	6ms/step	- loss:	0.3948 -	accuracy:	0.8194 -	val_loss:	0.5357	- val_accuracy:	0.7656
18/18	[=======] [328/1500	-	0s	6ms/step	- loss:	0.3948 -	accuracy:	0.8194 -	val_loss:	0.5356	- val_accuracy:	0.7656
18/18	[=========]	-	0s	7ms/step	- loss:	0.3948 -	accuracy:	0.8194 -	val_loss:	0.5356	- val_accuracy:	0.7656
18/18	1329/1500 [===========]	-	0s	5ms/step	- loss:	0.3947 -	accuracy:	0.8194 -	val_loss:	0.5356	- val_accuracy:	0.7656
Epoch	1330/1500 []						-		_			
Epoch	1331/1500											
Epoch	[=========] 1332/1500											
	[=========] 1333/1500	-	0s	6ms/step	- loss:	0.3946 -	accuracy:	0.8194 -	val_loss:	0.5357	- val_accuracy:	0.7656
18/18	[========] 1334/1500	-	0s	5ms/step	- loss:	0.3947 -	accuracy:	0.8194 -	val_loss:	0.5357	- val_accuracy:	0.7656
18/18	[=========]	-	0s	7ms/step	- loss:	0.3947 -	accuracy:	0.8194 -	val_loss:	0.5357	- val_accuracy:	0.7656
	1335/1500 [=========]	-	0s	5ms/step	- loss:	0.3947 -	accuracy:	0.8212 -	val_loss:	0.5358	- val_accuracy:	0.7656
Epoch	1336/1500 [========]											
Epoch	1337/1500											
Epoch	[==========] 1338/1500											
18/18	[=======] 1339/1500	-	0s	6ms/step	- loss:	0.3946 -	accuracy:	0.8212 -	val_loss:	0.5359	- val_accuracy:	0.7656
18/18	[==========]	-	0s	7ms/step	- loss:	0.3946 -	accuracy:	0.8212 -	val_loss:	0.5359	- val_accuracy:	0.7656
18/18	1340/1500 [========]	-	0s	6ms/step	- loss:	0.3947 -	accuracy:	0.8212 -	val_loss:	0.5359	- val_accuracy:	0.7656
Epoch	- 1341/1500 []											
Epoch	1342/1500											
Epoch	[=======] 1343/1500											
	[=========] 1344/1500	-	0s	6ms/step	- loss:	0.3946 -	accuracy:	0.8212 -	val_loss:	0.5359	- val_accuracy:	0.7656
	[======]	-	0s	8ms/step	- loss:	0.3946 -	accuracy:	0.8212 -	val_loss:	0.5359	- val_accuracy:	0.7656

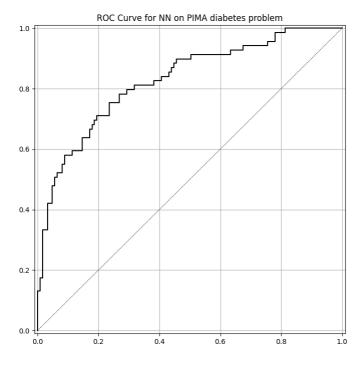
Epoch :	1345/1500											
	[=======] 1346/1500] -	0s	5ms/step -	loss:	0.3946 -	accuracy:	0.8212 -	val_loss:	0.5359 -	val_accuracy:	0.7656
18/18	[]] -	0s	7ms/step -	loss:	0.3945 -	accuracy:	0.8212 -	val_loss:	0.5360 -	val_accuracy:	0.7656
	1347/1500 []] -	0s	7ms/step -	loss:	0.3946 -	accuracy:	0.8212 -	- val_loss:	0.5360 -	val_accuracy:	0.7656
Epoch :	1348/1500 [======]											
Epoch :	1349/1500								_		_ ′	
	[=======] 1350/1500] -	0s	9ms/step -	loss:	0.3945 -	accuracy:	0.8212 -	val_loss:	0.5361 -	val_accuracy:	0.7656
18/18	[]] -	0s	7ms/step -	loss:	0.3945 -	accuracy:	0.8194 -	val_loss:	0.5363 -	val_accuracy:	0.7656
	1351/1500 [===========]] -	0s	6ms/step -	loss:	0.3945 -	accuracy:	0.8212 -	- val_loss:	0.5362 -	val_accuracy:	0.7656
	1352/1500 [=======]	1 -	95	6ms/sten -	loss:	0.3945 -	accuracy:	0.8194 -	- val loss:	0.5361 -	val accuracy:	0.7656
Epoch :	1353/1500						-		_			
Epoch :	[=========] 1354/1500						-		_			
	[=====================================] -	0s	8ms/step -	loss:	0.3944 -	accuracy:	0.8194 -	val_loss:	0.5361 -	val_accuracy:	0.7656
	[========] 1356/1500] -	0s	8ms/step -	loss:	0.3944 -	accuracy:	0.8212 -	val_loss:	0.5361 -	val_accuracy:	0.7656
18/18	[]] -	0s	10ms/step	- loss	: 0.3943	- accuracy	: 0.8194	- val_loss	0.5361	 val_accuracy 	: 0.7656
	1357/1500 [==========]] -	0s	8ms/step -	loss:	0.3944 -	accuracy:	0.8194 -	val_loss:	0.5362 -	val_accuracy:	0.7656
	1358/1500 [=======]	1 -	95	7ms/sten -	loss:	0.3943 -	accuracy:	0.8194 -	- val loss:	0.5362 -	val accuracy:	0.7656
Epoch :	1359/1500 [======]						-		_			
Epoch :	1360/1500						-		_			
Epoch :	[=======] 1361/1500								_		_ ′	
	[=======] 1362/1500] -	0s	7ms/step -	loss:	0.3944 -	accuracy:	0.8194 -	val_loss:	0.5361 -	val_accuracy:	0.7656
18/18	[=======]] -	0s	5ms/step -	loss:	0.3944 -	accuracy:	0.8194 -	val_loss:	0.5360 -	val_accuracy:	0.7656
18/18	1363/1500 [========]] -	0s	5ms/step -	loss:	0.3943 -	accuracy:	0.8194 -	val_loss:	0.5360 -	val_accuracy:	0.7656
18/18	1364/1500 [=======]] -	0s	5ms/step -	loss:	0.3944 -	accuracy:	0.8194 -	- val_loss:	0.5360 -	val_accuracy:	0.7656
	1365/1500 [======]] -	0s	5ms/step -	loss:	0.3943 -	accuracv:	0.8194 -	- val loss:	0.5361 -	val_accuracv:	0.7656
Epoch :	1366/1500 [=======]						-		_			
Epoch :	1367/1500								_		_ ′	
	[=======] 1368/1500	-	0s	5ms/step -	loss:	0.3943 -	accuracy:	0.8194 -	- vai_loss:	0.5363 -	val_accuracy:	U./656
18/18	[=======] 1369/1500] -	0s	5ms/step -	loss:	0.3943 -	accuracy:	0.8194 -	val_loss:	0.5363 -	val_accuracy:	0.7656
18/18	[]] -	0s	5ms/step -	loss:	0.3943 -	accuracy:	0.8194 -	val_loss:	0.5364 -	val_accuracy:	0.7656
18/18	1370/1500 [=======]] -	0s	5ms/step -	loss:	0.3943 -	accuracy:	0.8194 -	val_loss:	0.5364 -	val_accuracy:	0.7656
	1371/1500 []] -	0s	5ms/step -	loss:	0.3941 -	accuracy:	0.8194 -	val_loss:	0.5364 -	val_accuracy:	0.7656
	1372/1500 [======]	1 -	95	5ms/sten -	loss:	0.3942 -	accuracy:	0.8194 -	· val loss:	0.5365 -	val accuracy:	0.7656
Epoch :	1373/1500						-		_			
Epoch :	[========] 1374/1500											
	[=====================================] -	0s	5ms/step -	loss:	0.3942 -	accuracy:	0.8194 -	val_loss:	0.5364 -	val_accuracy:	0.7656
	[========] 1376/1500] -	0s	5ms/step -	loss:	0.3942 -	accuracy:	0.8194 -	val_loss:	0.5365 -	val_accuracy:	0.7656
18/18	[]] -	0s	5ms/step -	loss:	0.3942 -	accuracy:	0.8194 -	val_loss:	0.5366 -	val_accuracy:	0.7656
18/18	1377/1500 [=======]] -	0s	5ms/step -	loss:	0.3941 -	accuracy:	0.8194 -	val_loss:	0.5366 -	val_accuracy:	0.7656
	1378/1500 []] -	0s	6ms/step -	loss:	0.3942 -	accuracy:	0.8194 -	- val_loss:	0.5366 -	val_accuracy:	0.7656
Epoch :	1379/1500 [======]											
Epoch :	1380/1500											
Epoch :	[=======] 1381/1500											
	[=====================================	-	0s	5ms/step -	loss:	0.3942 -	accuracy:	0.8194 -	· val_loss:	0.5366 -	val_accuracy:	0.7656
	[============] 1383/1500] -	0s	4ms/step -	loss:	0.3941 -	accuracy:	0.8194 -	val_loss:	0.5365 -	val_accuracy:	0.7656
18/18	[=======] 1384/1500] -	0s	5ms/step -	loss:	0.3941 -	accuracy:	0.8194 -	val_loss:	0.5366 -	val_accuracy:	0.7656
18/18	[]] -	0s	5ms/step -	loss:	0.3942 -	accuracy:	0.8194 -	val_loss:	0.5368 -	val_accuracy:	0.7656
	1385/1500 [========]] -	0s	6ms/step -	loss:	0.3940 -	accuracy:	0.8194 -	val_loss:	0.5367 -	val_accuracy:	0.7656
	1386/1500	1 -	0s	7ms/step -	loss:	0.3940 -	accuracy:	0.8194 -	- val loss:	0.5367 -	val accuracy:	0.7656
Epoch :	1387/1500 [=======]								_		_ ′	
Epoch :	1388/1500											
Epoch :	[========] 1389/1500								· val_loss:	0.5367 -	val_accuracy:	0.7656
	[=======] 1390/1500] -	Q.c	6ms/stan	loss:	0.2040						
	1330/1300		05	22/2ceh -		0.3940 -	accuracy:	0.8194 -	val_loss:	0.5368 -	val_accuracy:	0.7656
	[=======]	-					-		_			
Epoch 18/18	[] 1391/1500 []		0s	6ms/step -	loss:	0.3941 -	accuracy:	0.8194 -	- val_loss:	0.5369 -	val_accuracy:	0.7656
Epoch : 18/18 Epoch : 18/18	[] 1391/1500 [] 1392/1500 []] -	0s 0s	6ms/step - 5ms/step -	loss:	0.3941 - 0.3941 -	accuracy:	0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 -	val_accuracy:	0.7656 0.7656
Epoch : 18/18 Epoch : 18/18 Epoch : 18/18	[] 1391/1500 [] 1392/1500 [] 1392/1500 [] 1393/1500	- -	0s 0s 0s	6ms/step - 5ms/step - 5ms/step -	loss:	0.3941 - 0.3941 - 0.3939 -	accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 -	- val_loss: - val_loss: - val_loss:	0.5369 - 0.5370 - 0.5370 -	val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656
Epoch : 18/18 Epoch : 18/18 Epoch : 18/18 Epoch : 18/18 Epoch :	[=====================================] -] -	0s 0s 0s	6ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss:	0.3941 - 0.3941 - 0.3939 - 0.3940 -	accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 -	val_loss: val_loss: val_loss: val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5370 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656
Epoch: 18/18 Epoch: 18/18 Epoch: 18/18 Epoch: 18/18 Epoch:	[=====================================] -] -	0s 0s 0s 0s	6ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss:	0.3941 - 0.3941 - 0.3939 - 0.3940 -	accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 -	- val_loss: - val_loss: - val_loss: - val_loss: - val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5370 - 0.5371 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656
Epoch : 18/18 Ep	[=====================================	- - -	0s 0s 0s 0s 0s	6ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss: loss:	0.3941 - 0.3941 - 0.3939 - 0.3940 - 0.3940 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.7656 0.7656 0.7656 0.7656 0.7656
Epoch: 18/18 Epoch:	[=====================================	- - -	0s 0s 0s 0s 0s	6ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss:	0.3941 - 0.3941 - 0.3939 - 0.3940 - 0.3940 - 0.3940 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5370 - 0.5371 - 0.5371 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch: 18/18	[========] 1392/1500 [========] 1392/1500 [========] 1393/1500 [===================================	- - -	0s 0s 0s 0s 0s	6ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss:	0.3941 - 0.3941 - 0.3939 - 0.3940 - 0.3940 - 0.3940 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5370 - 0.5371 - 0.5371 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch: 18/18	[=====================================	- - - -	0s 0s 0s 0s 0s	6ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss:	0.3941 - 0.3941 - 0.3939 - 0.3940 - 0.3940 - 0.3940 - 0.3940 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch : 18/18	[=====================================	- - - -	0s 0s 0s 0s 0s 0s 0s 0s	6ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss:	0.3941 - 0.3941 - 0.3939 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5370 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch : 18/18	[========] 1392/1500 [=======] 1392/1500 [========] 1393/1500 [=========] 1394/1500 [===============] 1395/1500 [===================================	- - - - -	0s 0s 0s 0s 0s 0s 0s 0s 0s	6ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.3941 - 0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18	[=====================================	- - - - -	0s 0s 0s 0s 0s 0s 0s	6ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.3941 - 0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3940 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18	[=====================================	- - - - - -	0s 0s 0s 0s 0s 0s 0s 0s	6ms/step - 5ms/step -	loss:	0.3941 - 0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3939 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18	[========] 1392/1500 [=======] 1393/1500 [========] 1394/1500 [=========] 1394/1500 [==========] 1395/1500 [===========] 1395/1500 [===================================	- - - - - -	9s	6ms/step - 5ms/step -	loss:	0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3939 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5370 - 0.5370 - 0.5370 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18	[========] 1392/1500 [========] 1392/1500 [=======] 1393/1500 [========] 1394/1500 [==========] 1396/1500 [============] 1396/1500 [===================================	- - - - - - -	9s	6ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3938 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch	[=====================================	- - - - - - -	9s	6ms/step - 5ms/step -	loss:	0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3938 - 0.3940 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch	[=====================================	- - - - - - -	9s	6ms/step - 5ms/step -	loss:	0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3938 - 0.3940 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch	[========] 1392/1500 [========] 1393/1500 [=======] 1393/1500 [========] 1394/1500 [==========] 1396/1500 [===========] 1396/1500 [===================================	- - - - - - - - -	9s	6ms/step - 5ms/step -	loss:	0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3938 - 0.3938 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18 Epoch	[=====================================	- - - - - - - - - - -	0s 0	6ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3938 - 0.3938 - 0.3938 -	accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 -	val_accuracy:	0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656 0.7656
Epoch 18/18	[=====================================		9s 9	6ms/step - 5ms/step -	loss: loss: loss: loss: loss: loss: loss: loss: loss: loss: loss:	0.3941 - 0.3940 - 0.3940 - 0.3940 - 0.3940 - 0.3939 - 0.3939 - 0.3939 - 0.3939 - 0.3938 - 0.3938 - 0.3938 - 0.3938 -	accuracy:	0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 - 0.8194 -	val_loss:	0.5369 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5370 - 0.5370 - 0.5370 - 0.5370 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 - 0.5371 -	val_accuracy:	0.7656 0.7656

	1409/1500 [=======]		0.0	Fmc/cton	10001	0 2020		0.9104	val lass.	0 5271		0.7656
Epoch	1410/1500						-		_			
Epoch	[========] 1411/1500						-		_			
	[============] 1412/1500	-	0s	6ms/step	- loss:	0.3938 -	accuracy:	0.8194	· val_loss:	0.5370	- val_accuracy:	0.7656
	[=======] 1413/1500	-	0s	5ms/step	- loss:	0.3938 -	accuracy:	0.8212	val_loss:	0.5371	- val_accuracy:	0.7656
	[=======] 1414/1500	-	0s	6ms/step	- loss:	0.3938 -	accuracy:	0.8212	val_loss:	0.5372	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3938 -	accuracy:	0.8212	val_loss:	0.5371	- val_accuracy:	0.7656
18/18	1415/1500 [=======]	-	0s	5ms/step	- loss:	0.3937 -	accuracy:	0.8212	val_loss:	0.5372	- val_accuracy:	0.7656
	1416/1500 []	-	0s	5ms/step	- loss:	0.3938 -	accuracy:	0.8212	val_loss:	0.5371	- val_accuracy:	0.7656
	1417/1500 [=======]	-	0s	5ms/step	- loss:	0.3938 -	accuracy:	0.8212	- val loss:	0.5372	- val accuracy:	0.7656
Epoch	1418/1500 []						-		_			
Epoch	1419/1500											
Epoch	[=======] 1420/1500											
Epoch	[========] 1421/1500											
	[============] 1422/1500	-	0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8212 -	· val_loss:	0.5374	- val_accuracy:	0.7656
	[=======] 1423/1500	-	0s	6ms/step	- loss:	0.3938 -	accuracy:	0.8212	· val_loss:	0.5374	- val_accuracy:	0.7656
18/18	[=======] 1424/1500	-	0s	5ms/step	- loss:	0.3937 -	accuracy:	0.8229	val_loss:	0.5375	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3938 -	accuracy:	0.8212	val_loss:	0.5374	- val_accuracy:	0.7656
18/18	1425/1500 [=======]	-	0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8212	val_loss:	0.5374	- val_accuracy:	0.7656
18/18	1426/1500 [========]	-	0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8212	- val_loss:	0.5374	- val_accuracy:	0.7656
	1427/1500 []	-	0s	6ms/step	- loss:	0.3937 -	accuracy:	0.8212	· val_loss:	0.5374	- val_accuracy:	0.7656
	1428/1500	l -	0s	5ms/step	- loss:	0.3937 -	accuracy:	0.8212	- val loss:	0.5375	- val accuracv:	0.7656
Epoch	1429/1500 [=======]											
Epoch	[=======] 1430/1500 [=========]											
Epoch	1431/1500						,		_		_ ′	
	[=======] 1432/1500	-	0s	5ms/step	- loss:	0.3937 -	accuracy:	0.8212	· val_loss:	0.5375	- val_accuracy:	0.7656
	[=======] 1433/1500	-	0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8212	· val_loss:	0.5376	- val_accuracy:	0.7656
18/18	[=======] 1434/1500	-	0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8212	val_loss:	0.5376	- val_accuracy:	0.7656
18/18	[=======] 1435/1500	-	0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8212	val_loss:	0.5376	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8229	val_loss:	0.5376	- val_accuracy:	0.7656
18/18	1436/1500 [=======]	-	0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8212	val_loss:	0.5376	- val_accuracy:	0.7656
	1437/1500 [=========]	-	0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8212	val_loss:	0.5377	- val_accuracy:	0.7656
	1438/1500 [=======]	-	0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8212	- val_loss:	0.5377	- val_accuracy:	0.7656
Epoch	1439/1500 []						-		_			
Epoch	1440/1500											
Epoch	[======] 1441/1500											
Epoch	[=====================================						-		_			
	[============] 1443/1500	-	0s	5ms/step	- loss:	0.3936 -	accuracy:	0.8212 -	· val_loss:	0.5376	- val_accuracy:	0.7656
	[=======] 1444/1500	-	0s	5ms/step	- loss:	0.3934 -	accuracy:	0.8212	· val_loss:	0.5377	- val_accuracy:	0.7656
	[========] 1445/1500	-	0s	6ms/step	- loss:	0.3935 -	accuracy:	0.8212	val_loss:	0.5377	- val_accuracy:	0.7656
18/18	[=======] 1446/1500	-	0s	5ms/step	- loss:	0.3937 -	accuracy:	0.8229	val_loss:	0.5377	- val_accuracy:	0.7656
18/18	[]	-	0s	5ms/step	- loss:	0.3934 -	accuracy:	0.8229	val_loss:	0.5379	- val_accuracy:	0.7604
18/18	1447/1500 [=======]	-	0s	5ms/step	- loss:	0.3934 -	accuracy:	0.8229	- val_loss:	0.5379	- val_accuracy:	0.7604
	1448/1500 [=========]	-	0s	5ms/step	- loss:	0.3934 -	accuracy:	0.8212	val_loss:	0.5378	- val_accuracy:	0.7656
	1449/1500 []	-	0s	4ms/step	- loss:	0.3934 -	accuracy:	0.8229	- val_loss:	0.5378	- val_accuracy:	0.7604
Epoch	1450/1500 []											
Epoch	1451/1500 [=======]											
Epoch	1452/1500											
Epoch	[=======] 1453/1500											
Epoch	[========] 1454/1500											
	[==========================] 1455/1500	-	0s	4ms/step	- loss:	0.3934 -	accuracy:	0.8212 -	· val_loss:	0.5379	- val_accuracy:	0.7604
	[=======] 1456/1500	-	0s	6ms/step	- loss:	0.3934 -	accuracy:	0.8212	· val_loss:	0.5380	- val_accuracy:	0.7604
18/18	[========] 1457/1500	-	0s	4ms/step	- loss:	0.3934 -	accuracy:	0.8229	val_loss:	0.5380	- val_accuracy:	0.7604
18/18	[=======] 1458/1500	-	0s	4ms/step	- loss:	0.3934 -	accuracy:	0.8212	val_loss:	0.5381	- val_accuracy:	0.7604
18/18	[]	-	0s	5ms/step	- loss:	0.3933 -	accuracy:	0.8212	val_loss:	0.5380	- val_accuracy:	0.7604
18/18	1459/1500 [=======]	-	0s	5ms/step	- loss:	0.3935 -	accuracy:	0.8229	- val_loss:	0.5379	- val_accuracy:	0.7656
	1460/1500 []	-	0s	5ms/step	- loss:	0.3934 -	accuracy:	0.8229	val_loss:	0.5378	- val_accuracy:	0.7656
	1461/1500	-	0s	5ms/step	- loss:	0.3933 -	accuracy:	0.8229	- val_loss:	0.5377	- val_accuracy:	0.7656
Epoch	1462/1500 [======]											
Epoch	[] 1463/1500 []						-		_			
Epoch	1464/1500											
Epoch	[======] 1465/1500											
Epoch	[========] 1466/1500											
18/18	[=======] 1467/1500	-	0s	7ms/step	- loss:	0.3932 -	accuracy:	0.8229	val_loss:	0.5381	- val_accuracy:	0.7604
18/18	[=======] 1468/1500	-	0s	7ms/step	- loss:	0.3932 -	accuracy:	0.8212	val_loss:	0.5380	<pre>- val_accuracy:</pre>	0.7552
18/18	[]	-	0s	6ms/step	- loss:	0.3932 -	accuracy:	0.8229	val_loss:	0.5381	- val_accuracy:	0.7604
18/18	1469/1500 []	-	0s	6ms/step	- loss:	0.3932 -	accuracy:	0.8229	val_loss:	0.5382	- val_accuracy:	0.7604
18/18	1470/1500 [=======]	-	0s	9ms/step	- loss:	0.3933 -	accuracy:	0.8212	val_loss:	0.5382	- val_accuracy:	0.7552
	1471/1500 []	-	0s	7ms/step	- loss:	0.3932 -	accuracy:	0.8229	- val_loss:	0.5381	- val_accuracv:	0.7604
	1472/1500 [=======]											
18/10		-	05	· ma/areb	1022:	U.JJJL -	accuracy:	0.0229	A01_1022;	0.330I	var_accuracy:	0.7004

```
Epoch 1473/1500
                           18/18 [===
       Epoch 1474/1500
       18/18 [===
                        =========] - 0s 6ms/step - loss: 0.3932 - accuracy: 0.8229 - val_loss: 0.5384 - val_accuracy: 0.7604
           1475/1500
       18/18
                              =======] - 0s 6ms/step - loss: 0.3931 - accuracy: 0.8212 - val_loss: 0.5382 - val_accuracy: 0.7604
       Epoch 1476/1500
                              18/18 [
       Epoch 1477/1500
       .
18/18 Γ==
                           Epoch 1478/1500
18/18 「===---
                             ========] - 0s 8ms/step - loss: 0.3931 - accuracy: 0.8229 - val_loss: 0.5383 - val_accuracy: 0.7604
       Epoch
18/18
                              ======] - 0s 7ms/step - loss: 0.3931 - accuracy: 0.8212 - val_loss: 0.5383 - val_accuracy: 0.7604
       Epoch 1480/1500
       18/18
                            :=======] - 0s 6ms/step - loss: 0.3931 - accuracy: 0.8229 - val_loss: 0.5384 - val_accuracy: 0.7604
       Epoch 1481/1500
18/18 [======
                            =======] - 0s 6ms/step - loss: 0.3931 - accuracy: 0.8212 - val_loss: 0.5383 - val_accuracy: 0.7604
           1482/1500
                               18/18 [==
       Epoch 1483/1500
       18/18 [==
                           ========] - 0s 8ms/step - loss: 0.3931 - accuracy: 0.8229 - val_loss: 0.5385 - val_accuracy: 0.7604
       Epoch 1484/1500
18/18 [======
                             =======] - 0s 7ms/step - loss: 0.3931 - accuracy: 0.8229 - val_loss: 0.5383 - val_accuracy: 0.7604
       Epoch 1485/1500
                                  :===] - 0s 5ms/step - loss: 0.3930 - accuracy: 0.8229 - val loss: 0.5384 - val accuracy: 0.7604
       18/18 [===
       Epoch 1486/1500
       18/18 [==
                            :=======] - 0s 7ms/step - loss: 0.3931 - accuracy: 0.8229 - val_loss: 0.5385 - val_accuracy: 0.7604
      Epoci.
18/18
         och 1487/1500
                             :======] - 0s 6ms/step - loss: 0.3930 - accuracy: 0.8229 - val_loss: 0.5384 - val_accuracy: 0.7604
       Epoch 1488/1500
                             =======] - 0s 5ms/step - loss: 0.3931 - accuracy: 0.8229 - val loss: 0.5385 - val accuracy: 0.7604
       18/18 [===
       Epoch 1489/1500
       .
18/18 Γ==
                           ========] - 0s 6ms/step - loss: 0.3931 - accuracy: 0.8247 - val_loss: 0.5385 - val_accuracy: 0.7604
            1490/1500
                            :=======] - 0s 7ms/step - loss: 0.3930 - accuracy: 0.8247 - val_loss: 0.5386 - val_accuracy: 0.7604
           1491/1500
       Epoch 149:
18/18 [==:
                             Epoch 1492/1500
18/18 [======
                            1493/1500
                           Epoch 1494/1500
                             18/18 F==
       Epoch 1495/1500
       18/18
                            ========] - 0s 7ms/step - loss: 0.3930 - accuracy: 0.8264 - val_loss: 0.5386 - val_accuracy: 0.7604
           1496/1500
                                   ==] - 0s 7ms/step - loss: 0.3931 - accuracy: 0.8247 - val_loss: 0.5387 - val_accuracy: 0.7604
       18/18 [======
Epoch 1497/1500
                              =======] - 0s 9ms/step - loss: 0.3930 - accuracy: 0.8229 - val loss: 0.5387 - val accuracy: 0.7604
       18/18 [===
       Epoch 1498/1500
       18/18
                           1499/1500
                    18/18 [======
Epoch 1500/1500
       In [ ]: y_pred_prob_nnew2 = new_model2.predict(X_test_norm)
y_pred_class_nnew2 = (y_pred_prob_nnew2 > 0.5).astype('int32')
      6/6 [======] - 0s 2ms/step
In [ ]: y_pred_class_nnew2[:10]
Out[]: array([[1],
            [0],
[0],
[0],
[1],
            [0],
[0],
            [1],
[0]], dtype=int32)
In [ ]: y_pred_prob_nnew2[:10]
Out[]: array([[0.6447143],
             0.762542
            [0.3831105 ]
             [0 11248234]
            [0.24771403]
[0.53396714]
            [0.01348655]
            [0.45988557],
            0.887487
            [0.1467733 ]], dtype=float32)
In [ ]: def plot_roc(y_test, y_pred, new_model_name)
          fpr, tpr, thr = roc_curve(y_test, y_pred)
fig, ax = plt.subplots(figsize=(8, 8))
          rig, ax = pirisupport.

ax.plot(fpr, tpr, 'k-')

ax.plot([0, 1], [0, 1], 'k--', linewidth=.5) # roc curve for random model
          In [ ]: print('accuracy is {:.3f}'.format(accuracy_score(y_test,y_pred_class_nnew2)))#y_pred_prob_nnew
print('roc-auc is {:.3f}'.format(roc_auc_score(y_test,y_pred_prob_nnew2)))#y_pred_prob_nnew
       {\tt plot\_roc(y\_test,\ y\_pred\_prob\_nnew2,\ 'NN')}
       accuracy is 0.771 roc-auc is 0.827
```

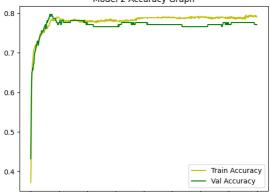


• This model shows the accuracy, standing at 74.5%, signifies that the model's predictions were correct at some point. In terms of ROC-AUC, it achieved a score of 0.803. This assesses the model's capability to distinguish between positive and negative instances, with higher values suggesting a superior separation between classes. But overall, not a good model.

```
In [ ]: run_hist_3.history.keys()
Out[ ]: dict_keys(['loss', 'accuracy', 'val_loss', 'val_accuracy'])
In [ ]: fig, ax = plt.subplots()
            ax.plot(run_hist_3.history["loss"],'r', marker='.', label="Train Loss")
ax.plot(run_hist_3.history["val_loss"],'b', marker='.', label="Validation Loss")
           ax.legend()
Out[ ]: <matplotlib.legend.Legend at 0x7cf71b2d7310>
             0.80
                                                                                     → Train Loss

    Validation Loss

             0.75
             0.70
             0.65
             0.60
             0.55
             0.50
             0.45
             0.40
                                           200
In [ ]: fig, ax = plt.subplots()
ax.plot(run_hist_3.history['accuracy'], 'y', label = 'Train Accuracy')
ax.plot(run_hist_3.history['val_accuracy'], 'g', label = 'Val Accuracy')
plt.title("Model 2 Accuracy Graph")
ax.legend()
Out[ ]: <matplotlib.legend.Legend at 0x7cf71b02ded0>
                                               Model 2 Accuracy Graph
```



Using Byukilmaz.csv

```
In [74]: from __future__ import absolute_import, division, print_function
           import warnings
warnings.filterwarnings("ignore")
           import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
           from sklearn.model selection import train test split
           from sklearm.preprocessing import StandardScaler
from sklearm.metrics import ordivation_matrix, precision_recall_curve, roc_auc_score, roc_curve, accuracy_score
from sklearn.ensemble import RandomForestClassifier
           %matplotlib inline
 In [75]: ## Import Keras objects for Deep Learning
           from keras.models import Sequential
from keras.layers import Input, Dense, Flatten, Dropout, BatchNormalization
from keras.optimizers import Adam, SGD, RMSprop
In [76]: byu_df = pd.read_csv('/content/drive/Shareddrives/CPE312/H0A5/buyukyilmaz.csv')
byu_df
Out[76]:
                            sd median Q25 Q75 IQR skew
                                                                                      kurt sp.ent sfm ... centroid meanfun minfun maxfun meandom mindom maxdom dfrange modindx gender
              meanfreq
              1 0.066009 0.067310 0.040229 0.019414 0.092666 0.073252 22.423285 634.613855 0.892193 0.513724 ... 0.066009 0.107937 0.015826 0.250000 0.009014 0.007812 0.054688 0.046875 0.052632 male
             2 0.077316 0.083829 0.036718 0.008701 0.131908 0.123207 30.757155 1024.927705 0.846389 0.478905 ... 0.077316 0.098706 0.015656 0.271186 0.007990 0.007812 0.015625 0.007812 0.046512
                                                                                                                                                                                                    male
            3 0.151228 0.072111 0.158011 0.096582 0.207955 0.111374 1.232831 4.177296 0.963322 0.727232 ... 0.151228 0.088965 0.017798 0.250000 0.201497 0.007812 0.562500 0.554688 0.247119 male
              4 0.135120 0.079146 0.124656 0.078720 0.206045 0.127325 1.101174
                                                                                  4.333713 0.971955 0.783568 ... 0.135120 0.106398 0.016931 0.266667 0.712812 0.007812 5.484375 5.476562 0.208274
          3163 0.131884 0.084734 0.153707 0.049285 0.201144 0.151859 1.762129 6630383 0.962934 0.763182 ... 0.131884 0.182790 0.083770 0.262295 0.832899 0.007812 4.210938 4.203125 0.161929 female
          3164 0.116221 0.089221 0.076758 0.042718 0.204911 0.162193 0.693730 2.503954 0.960716 0.709570 ... 0.116221 0.188980 0.034409 0.275862 0.909856 0.039062 3.679688 3.640625 0.277897 female
           3165 0.142056 0.095798 0.183731 0.03424 0.224360 0.190936 1.876502 6.604509 0.946854 0.654196 ... 0.142056 0.20918 0.039506 0.275862 0.494271 0.007812 2.937500 2.929688 0.194759 female
          316 0.143659 0.090628 0.184976 0.043508 0.219943 0.176435 1.591065 5.388298 0.950436 0.75470 ... 0.143659 0.172375 0.034483 0.250000 0.791360 0.007812 3.593750 3.585938 0.311002 female
          3167 0.165509 0.092884 0.183044 0.070072 0.250827 0.180756 1.705029 5.769115 0.938829 0.601529 ... 0.165509 0.185607 0.062257 0.271186 0.227022 0.007812 0.554688 0.546875 0.350000 female
          3168 rows × 21 columns
 In [77]: print('Data Shape: ', byu_df.shape, '\n\n')
print('Data Types:\n', byu_df.dtypes)
          Data Shape: (3168, 21)
           Data Types:
            meanfreq
                        float64
           sd
                        float64
           median
                        float64
                        float64
float64
float64
           IQR
                        float64
           kurt
                        float64
           sp.ent
sfm
                        float64
           centroid
                        float64
                        float64
           minfun
                        float64
           maxfun
meandom
mindom
                        float64
                        float64
           maxdom
                        float64
           dfrange
                        float64
           modindx
                       float64
           gender object
dtype: object
 In [78]: from sklearn.preprocessing import LabelEncoder
           le = LabelEncoder(
           byu_df.gender = le.fit_transform(byu_df.gender)
 In [79]: X = byu_df.drop('gender', axis = 1).values
y = byu_df.gender.values
 In [80]: X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.25, random_state=11111)
 In [84]: model_supp = Sequential([
    Dense(6, input_shape = (20, ), activation = 'relu'),
    Dense(1, activation = 'sigmoid')
In [105... model_supp.compile(SGD(lr = 0.003), "binary_crossentropy", metrics = ['accuracy'])
          run_hist_supp = model_supp.fit(X_train_norm, y_train, validation_data = (X_test_norm, y_test), epochs = 1500)
          WARNING:absl: 'lr' is deprecated in Keras optimizer, please use 'learning rate' or use the legacy optimizer, e.g.,tf.keras.optimizers.legacy.SGD.
```

```
Epoch 1/1500
                                        - 1s 5ms/step - loss: 0.7041 - accuracy: 0.6128 - val_loss: 0.5912 - val_accuracy: 0.7462
75/75 [==
Epoch 2/1500
75/75 [=
                                          0s 2ms/step - loss: 0.5180 - accuracy: 0.8169 - val loss: 0.4707 - val accuracy: 0.8497
Epoch
75/75
      3/1500
                                              3ms/step - loss: 0.4197 - accuracy: 0.8817 - val_loss: 0.3884 - val_accuracy: 0.8851
Epoch 4/1500
                                          0s 3ms/step - loss: 0.3464 - accuracy: 0.9066 - val_loss: 0.3264 - val_accuracy: 0.9015
75/75 [====
Epoch 5/1500
75/75 [=
                                          0s 3ms/step - loss: 0.2921 - accuracy: 0.9221 - val loss: 0.2798 - val accuracy: 0.9205
      6/1500
Epoch
75/75
75/75
                                              3ms/step - loss: 0.2195 - accuracy: 0.9457 - val_loss: 0.2158 - val_accuracy: 0.9318
Epoch 8/1500
75/75 [
                                             3ms/step - loss: 0.1958 - accuracy: 0.9516 - val loss: 0.1947 - val accuracy: 0.9369
      9/1500
                                                       - loss: 0.1773 -
                                                                         accuracy: 0.9554 - val_loss: 0.1780 - val_accuracy: 0.9432
75/75 [=====
Epoch 10/1500
                                          0s 3ms/step - loss: 0.1624 - accuracy: 0.9609 - val_loss: 0.1650 - val_accuracy: 0.9508
75/75 [=
Epoch 11/1500
75/75 T
                                        - 0s 3ms/step - loss: 0.1504 - accuracy: 0.9646 - val loss: 0.1540 - val accuracy: 0.9571
      12/1500
                                             2ms/step - loss: 0.1406 - accuracy: 0.9680 - val_loss: 0.1453 - val_accuracy: 0.9634
Epoch 13/1500
                                          Os 2ms/step - loss: 0.1322 - accuracy: 0.9693 - val loss: 0.1376 - val accuracy: 0.9634
75/75 [==
Epoch 14/1500
75/75
                                             3ms/step - loss: 0.1253 - accuracy: 0.9705 - val loss: 0.1310 - val accuracy: 0.9646
Epoch
75/75
  och 15/1500
                                                       - loss: 0.1194 - accuracy: 0.9705 - val_loss: 0.1258 - val_accuracy: 0.9672
Epoch 16/1500
75/75 [=====
Epoch 17/1500
                                          0s 2ms/step - loss: 0.1144 - accuracy: 0.9718 - val loss: 0.1211 - val accuracy: 0.9672
75/75 [
                                          0s 3ms/step - loss: 0.1101 - accuracy: 0.9722 - val loss: 0.1170 - val accuracy: 0.9697
Epoch 18/1500
75/75 [=====
      19/1500
Epoch
                                             3ms/step - loss: 0.1032 - accuracy: 0.9735 - val_loss: 0.1107 - val_accuracy: 0.9710
75/75 [==
Epoch 20/1500
75/75 [=====
                                             4ms/step - loss: 0.1003 - accuracy: 0.9735 - val_loss: 0.1084 - val_accuracy: 0.9710
Epoch 21/1500
75/75 [=====
                                                       - loss: 0.0977 - accuracy: 0.9743 - val_loss: 0.1061 -
                                                                                                                val_accuracy: 0.9722
Epoch 22/1500
                                          0s 4ms/step - loss: 0.0954 - accuracy: 0.9743 - val loss: 0.1042 - val accuracy: 0.9722
75/75 [=
Epoch 23/1500
75/75 I
                                          0s 3ms/step - loss: 0.0935 - accuracy: 0.9743 - val loss: 0.1025 - val accuracy: 0.9722
      24/1500
                                             3ms/step - loss: 0.0917 - accuracy: 0.9747 - val loss: 0.1010 - val accuracy: 0.9722
      25/1500
Epoch
75/75 [==
                                          0s 3ms/step - loss: 0.0900 - accuracy: 0.9747 - val loss: 0.0998 - val accuracy: 0.9722
Epoch 26/1500
75/75 [=====
                                              4ms/step - loss: 0.0885 - accuracy: 0.9752 - val_loss: 0.0987 - val_accuracy: 0.9735
      27/1500
                                              4ms/step - loss: 0.0872 - accuracy: 0.9747 - val_loss: 0.0974 - val_accuracy: 0.9735
75/75 [=====
Epoch 28/1500
75/75 [==
                                          0s 4ms/step - loss: 0.0860 - accuracy: 0.9747 - val loss: 0.0964 - val accuracy: 0.9735
Fnoch 29/1500
75/75
                                             4ms/step - loss: 0.0849 - accuracy: 0.9760 - val loss: 0.0954 - val accuracy: 0.9735
      .
30/1500
      31/1500
Epoch
75/75 [=
                                          0s 2ms/step - loss: 0.0829 - accuracy: 0.9756 - val loss: 0.0938 - val accuracy: 0.9747
Epoch 32/1500
75/75 [=====
                                              3ms/step - loss: 0.0820 - accuracy: 0.9764 - val_loss: 0.0935 - val_accuracy: 0.9735
75/75
Epoch
75/75
      33/1500
                                             3ms/step - loss: 0.0813 - accuracy: 0.9764 - val loss: 0.0928
                                                                                                               - val accuracy: 0.9735
Epoch 34/1500
75/75 [=:
                                          0s 2ms/step - loss: 0.0806 - accuracy: 0.9764 - val loss: 0.0919 - val accuracy: 0.9747
Epoch
      35/1500
75/75
                                             2ms/step - loss: 0.0799 - accuracy: 0.9769 - val_loss: 0.0913 - val_accuracy: 0.9747
      1
36/1500
Epoch
75/75 [=====
Epoch 37/1500
                                          0s 3ms/step - loss: 0.0792 - accuracy: 0.9769 - val_loss: 0.0909 - val_accuracy: 0.9747
75/75 [==
                                          0s 2ms/step - loss: 0.0786 - accuracy: 0.9769 - val loss: 0.0904 - val accuracy: 0.9747
Epoch
75/75
      38/1500
                                              2ms/step - loss: 0.0781 - accuracy: 0.9764 - val_loss: 0.0902 - val_accuracy: 0.9747
      [=====
39/1500
Epoch
75/75
                                              2ms/step - loss: 0.0777 - accuracy: 0.9769 - val_loss: 0.0897 - val_accuracy: 0.9747
Epoch 40/1500
75/75 F
                                          0s 3ms/step - loss: 0.0771 - accuracy: 0.9781 - val loss: 0.0888 - val accuracy: 0.9760
Fnoch 41/1500
75/75
                                              3ms/step - loss: 0.0767 - accuracy: 0.9764 - val loss: 0.0886 - val accuracy: 0.9760
      42/1500
75/75 [=====
Fnoch 43/1500
                                              3ms/step - loss: 0.0763 - accuracy: 0.9773 - val loss: 0.0883 - val accuracy: 0.9760
75/75 [==
                                             3ms/step - loss: 0.0759 - accuracy: 0.9769 - val loss: 0.0882 - val accuracy: 0.9760
Epoch 44/1500
75/75 [======
Epoch 45/1500
                                                         loss: 0.0755 -
                                                                         accuracy: 0.9777 - val_loss: 0.0877 -
                                          0s 3ms/step - loss: 0.0751 - accuracy: 0.9769 - val_loss: 0.0874 - val_accuracy: 0.9760
75/75 [==
Epoch 46/1500
75/75 [==
                                        - 0s 3ms/step - loss: 0.0748 - accuracy: 0.9777 - val loss: 0.0872 - val accuracy: 0.9760
  och 47/1500
75/75 [=====
Epoch 48/1500
                                             3ms/step - loss: 0.0745 - accuracy: 0.9785 - val_loss: 0.0868 - val_accuracy: 0.9747
                                          0s 2ms/step - loss: 0.0742 - accuracy: 0.9790 - val loss: 0.0866 - val accuracy: 0.9747
75/75 [=====
Epoch 49/1500
75/75 [=
                                          0s 2ms/step - loss: 0.0738 - accuracy: 0.9785 - val loss: 0.0862 - val accuracy: 0.9747
      50/1500
                                                                         accuracy: 0.9773 - val_loss: 0.0861 -
      51/1500
Epoch 51,
75/75 [=:
                                             3ms/step - loss: 0.0733 - accuracy: 0.9785 - val_loss: 0.0859 - val_accuracy: 0.9747
Epoch 52/1500
75/75
                                          0s 3ms/step - loss: 0.0731 - accuracy: 0.9785 - val loss: 0.0857 - val accuracy: 0.9747
      53/1500
      [=====
54/1500
Epoch
75/75 [=====
Epoch 55/1500
                                             3ms/step - loss: 0.0726 - accuracy: 0.9785 - val_loss: 0.0852 - val_accuracy: 0.9747
75/75 [=
                                          0s 2ms/step - loss: 0.0723 - accuracy: 0.9790 - val loss: 0.0849 - val accuracy: 0.9747
      56/1500
                                                       - loss: 0.0722 - accuracy: 0.9785 - val_loss: 0.0847 -
                                                                                                                val_accuracy: 0.9747
      [=====
57/1500
Epoch
                                          Os 3ms/step - loss: 0.0719 - accuracy: 0.9785 - val loss: 0.0845 - val accuracy: 0.9747
75/75 [=
Epoch 58/1500
75/75
                                          0s 3ms/step - loss: 0.0717 - accuracy: 0.9790 - val loss: 0.0844 - val accuracy: 0.9747
Epoch
75/75
      59/1500
      [=--
60/1500
Epoch
                                          0s 3ms/step - loss: 0.0713 - accuracy: 0.9790 - val loss: 0.0841 - val accuracy: 0.9747
75/75
      61/1500
Epoch
75/75 [
                                          0s 3ms/step - loss: 0.0711 - accuracy: 0.9785 - val loss: 0.0839 - val accuracy: 0.9747
      62/1500
                                             3ms/step - loss: 0.0710 - accuracy: 0.9790 - val_loss: 0.0837 - val_accuracy: 0.9747
      [=====
63/1500
Epoch
                           ========] - 0s 3ms/step - loss: 0.0708 - accuracy: 0.9790 - val_loss: 0.0835 - val_accuracy: 0.9747
75/75 [=
Fnoch 64/1500
```

75/75	65/1500 [======]	- (ðs.	3ms/step	-	loss:	0.0705 -	- ac	curacy:	0.9790 -	val_loss:	0.0833 -	val_accuracy:	0.9747
	66/1500 []	- (ðs.	3ms/step	_	loss:	0.0703 -	- ac	curacy:	0.9790 -	val_loss:	0.0834 -	val_accuracy:	0.9747
Epoch	67/1500													
Epoch	[=======] 68/1500													
	[========] 69/1500	- (ðs.	3ms/step	-	loss:	0.0701 -	- ac	curacy:	0.9790 -	val_loss:	0.0830 -	val_accuracy:	0.9747
	[=======] 70/1500	- (ðs.	2ms/step	-	loss:	0.0699 -	- ac	curacy:	0.9790 -	val_loss:	0.0829 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0698 -	- ac	curacy:	0.9790 -	val_loss:	0.0827 -	val_accuracy:	0.9747
	71/1500 []	- (ðs.	3ms/step	-	loss:	0.0697 -	- ac	curacy:	0.9794 -	val_loss:	0.0826 -	val_accuracy:	0.9747
	72/1500 []	- (ac	3ms/stan	_	1000	0 0605 -	- 20	curacy:	a 979a -	. val locc:	0 0824 -	val accuracy:	0 9747
Epoch	73/1500													
	[========] 74/1500	- (ØS	3ms/step	-	loss:	0.0695 -	- ac	curacy:	0.9790 -	· val_loss:	0.0824 -	val_accuracy:	0.9/4/
	[=======] 75/1500	- (ðs.	2ms/step	-	loss:	0.0693 -	- ac	curacy:	0.9785 -	val_loss:	0.0822 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0692 -	- ac	curacy:	0.9794 -	val_loss:	0.0821 -	val_accuracy:	0.9747
	76/1500 [=======]	- (ðs.	3ms/step	-	loss:	0.0691 -	- ac	curacy:	0.9790 -	val_loss:	0.0821 -	val_accuracy:	0.9747
	77/1500 []	- (ðs.	2ms/step	_	loss:	0.0690 -	- ac	curacv:	0.9794 -	val loss:	0.0820 -	val accuracy:	0.9747
Epoch	78/1500													
Epoch	[=======] 79/1500													
	[========] 80/1500	- (ðs.	3ms/step	-	loss:	0.0688 -	- ac	curacy:	0.9794 -	val_loss:	0.0820 -	val_accuracy:	0.9747
75/75	[=======] 81/1500	- (ðs.	4ms/step	-	loss:	0.0686 -	- ac	curacy:	0.9790 -	val_loss:	0.0816 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0686 -	- ac	curacy:	0.9798 -	val_loss:	0.0817 -	val_accuracy:	0.9747
	82/1500 []	- (ðs.	3ms/step	_	loss:	0.0685 -	- ac	curacy:	0.9790 -	val_loss:	0.0816 -	val_accuracy:	0.9747
Epoch	83/1500 [=======]													
Epoch	84/1500								-		_			
	[========] 85/1500	- (ðs.	4ms/step	-	loss:	0.0684 -	- ac	curacy:	0.9794 -	val_loss:	0.0816 -	val_accuracy:	0.9747
75/75	[=======] 86/1500	- (ðs.	4ms/step	-	loss:	0.0682 -	- ac	curacy:	0.9794 -	val_loss:	0.0814 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0681 -	- ac	curacy:	0.9794 -	val_loss:	0.0812 -	val_accuracy:	0.9747
	87/1500 []	- (ðs.	3ms/step	_	loss:	0.0680 -	- ac	curacy:	0.9781 -	val_loss:	0.0811 -	val_accuracy:	0.9747
	88/1500 []	- (ac	Ams/stan	_	1000	0 0680 -	- 20	curacy:	0 9790 -	- val loss:	0 0810 -	val accuracy:	0 9747
Epoch	89/1500													
	[=======] 90/1500	- (ðs.	4ms/step	-	loss:	0.0679 -	- ac	curacy:	0.9798 -	val_loss:	0.0809 -	val_accuracy:	0.9747
	[=======] 91/1500	- (ðs.	3ms/step	-	loss:	0.0677 -	- ac	curacy:	0.9794 -	val_loss:	0.0807 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0677 -	- ac	curacy:	0.9794 -	val_loss:	0.0805 -	val_accuracy:	0.9747
	92/1500 [========]	- (ðs.	4ms/step	_	loss:	0.0676 -	- ac	curacy:	0.9798 -	val_loss:	0.0805 -	val_accuracy:	0.9747
	93/1500 []	- 6	as	3ms/sten	_	loss:	0.0675 -	- ac	curacy:	0.9790 -	val loss:	0.0806 -	val accuracy:	0.9747
Epoch	94/1500													
Epoch	[=======] 95/1500													
	[======] 96/1500	- (ðs.	3ms/step	-	loss:	0.0673 -	- ac	curacy:	0.9790 -	val_loss:	0.0803 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0673 -	- ac	curacy:	0.9790 -	val_loss:	0.0802 -	val_accuracy:	0.9747
	97/1500 [=======]	- (ðs.	2ms/step	_	loss:	0.0672 -	- ac	curacy:	0.9802 -	val_loss:	0.0802 -	val_accuracy:	0.9747
	98/1500 []	- 6	as	3ms/sten	_	loss:	0.0671 -	- ac	curacy:	0.9790 -	val loss:	0.0800 -	val accuracy:	0.9747
Epoch	99/1500													
Epoch	[=======] 100/1500								-		_			
	[=======] 101/1500	- (ðs.	3ms/step	-	loss:	0.0669 -	- ac	curacy:	0.9794 -	val_loss:	0.0799 -	val_accuracy:	0.9747
75/75	[=======] 102/1500	- (ðs.	3ms/step	-	loss:	0.0668 -	- ac	curacy:	0.9798 -	val_loss:	0.0798 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0667 -	- ac	curacy:	0.9790 -	val_loss:	0.0799 -	val_accuracy:	0.9747
	103/1500	- (ðs.	2ms/step	_	loss:	0.0667 -	- ac	curacy:	0.9794 -	val_loss:	0.0798 -	val_accuracy:	0.9747
	104/1500	- (ac	3ms/stan	_	1000	0 0666 -	- 20	curacy:	a 9798 -	. val locc:	0 0797 -	val accuracy:	0 97/17
Epoch	105/1500													
	[========] 106/1500	- (ðs	2ms/step	-	loss:	0.0665 -	- ac	curacy:	0.9802 -	· val_loss:	0.0798 -	val_accuracy:	0.9747
	[=======] 107/1500	- (ðs.	2ms/step	-	loss:	0.0664 -	- ac	curacy:	0.9798 -	val_loss:	0.0796 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0663 -	- ac	curacy:	0.9794 -	val_loss:	0.0797 -	val_accuracy:	0.9747
	108/1500	- (ðs.	3ms/step	_	loss:	0.0663 -	- ac	curacy:	0.9798 -	val_loss:	0.0796 -	val_accuracy:	0.9747
	109/1500 []	- 6	ac	3ms/sten	_	loss.	0 0662 -	- ac	curacy:	a 98a2 -	- val loss:	a a797 -	val accuracy:	0 9747
Epoch	110/1500													
Epoch	[=======] 111/1500								-		_			
	[======] 112/1500	- (ðs.	3ms/step	-	loss:	0.0660 -	- ac	curacy:	0.9802 -	val_loss:	0.0796 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0660 -	- ac	curacy:	0.9798 -	val_loss:	0.0796 -	val_accuracy:	0.9747
	113/1500	- (ðs.	3ms/step	-	loss:	0.0659 -	- ac	curacy:	0.9798 -	val_loss:	0.0794 -	val_accuracy:	0.9747
	114/1500 []	- (ac	2ms/stan	_	1000	0 0658 -	- 20	curacy:	0 0802 -	. val locc:	0 0794 -	val accuracy:	0 97/17
Epoch	115/1500													
	[=======] 116/1500	- (ðs	3ms/step	-	loss:	0.0657 -	- ac	curacy:	0.9798 -	· val_loss:	0.0797 -	val_accuracy:	0.9747
75/75	[=======] 117/1500	- (ðs.	3ms/step	-	loss:	0.0657 -	- ac	curacy:	0.9802 -	val_loss:	0.0794 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0656 -	- ac	curacy:	0.9798 -	val_loss:	0.0793 -	val_accuracy:	0.9747
	118/1500	- (ðs.	2ms/step	_	loss:	0.0655 -	- ac	curacy:	0.9798 -	val_loss:	0.0792 -	val_accuracy:	0.9747
Epoch	119/1500 []								-		_			
Epoch	120/1500													
	[=======] 121/1500	- (ðs	3ms/step	-	loss:	0.0653 -	- ac	curacy:	0.9802 -	val_loss:	0.0792 -	val_accuracy:	0.9747
75/75	[=======] 122/1500	- (ðs.	3ms/step	-	loss:	0.0652 -	- ac	curacy:	0.9798 -	val_loss:	0.0790 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0652 -	- ac	curacy:	0.9798 -	val_loss:	0.0791 -	val_accuracy:	0.9747
	123/1500 [=======]	- (ðs.	3ms/step	-	loss:	0.0651 -	- ac	curacy:	0.9798 -	val_loss:	0.0790 -	val_accuracy:	0.9747
Epoch	124/1500 []													
Epoch	125/1500								-		_			
Epoch	[=======] 126/1500													
75/75	[======] 127/1500	- (ðs.	4ms/step	-	loss:	0.0649 -	- ac	curacy:	0.9798 -	val_loss:	0.0789 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0648 -	- ac	curacy:	0.9798 -	val_loss:	0.0788 -	val_accuracy:	0.9747
	128/1500	- 6	ðs.	3ms/sten	_	loss:	0.0648 -	- ac	curacv:	0.9798 -	val loss:	0.0788 -	val_accuracv:	0.9747
	,								,				,.	

Epoch	129/1500													
	[=======] 130/1500	- (ðs.	4ms/step	-	loss:	0.0647 -	accur	acy:	0.9802	- val_loss:	0.0787 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0646 -	accui	acy:	0.9798	- val_loss:	0.0786 -	val_accuracy:	0.9747
	131/1500 []	- (ðs.	4ms/step	-	loss:	0.0646 -	accur	acy:	0.9802	- val_loss:	0.0787 -	val_accuracy:	0.9747
	132/1500	- 6	ac	4ms/sten	_	loss.	0 0645 -	accili	acv.	a 9798	- val loss	0 0787 -	val accuracy:	0 9747
Epoch	133/1500								-		_			
Epoch	[=======] 134/1500								-		_			
	[=======] 135/1500	- (ðs.	3ms/step	-	loss:	0.0644 -	accui	acy:	0.9802	- val_loss:	0.0787 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0643 -	accur	acy:	0.9802	- val_loss:	0.0787 -	val_accuracy:	0.9747
75/75	136/1500 [======]	- (ðs.	3ms/step	-	loss:	0.0642 -	accur	acy:	0.9802	- val_loss:	0.0788 -	val_accuracy:	0.9747
	137/1500 []	- (ðs.	3ms/step	_	loss:	0.0642 -	accui	acy:	0.9802	- val_loss:	0.0790 -	val_accuracy:	0.9735
Epoch	138/1500 []													
Epoch	139/1500													
	[=======] 140/1500	- (ðs.	4ms/step	-	loss:	0.0641 -	accui	acy:	0.9798	- val_loss:	0.0788 -	val_accuracy:	0.9747
	[=======] 141/1500	- (ðs.	4ms/step	-	loss:	0.0640 -	accui	acy:	0.9798	- val_loss:	0.0787 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0640 -	accur	acy:	0.9798	- val_loss:	0.0786 -	val_accuracy:	0.9747
	142/1500 []	- (ðs.	4ms/step	_	loss:	0.0638 -	accui	acy:	0.9798	- val_loss:	0.0785 -	val_accuracy:	0.9747
	143/1500	- 6	ac	3ms/sten	_	loss.	0 0638 -	accili	acv.	a 98a2 .	- val loss	0 0787 -	val accuracy:	0 9747
Epoch	144/1500													
	[========] 145/1500	- (ðs	3ms/step	-	loss:	0.0637 -	accui	acy:	0.9798	- val_loss:	0.0786 -	val_accuracy:	0.9747
	[=======] 146/1500	- (ðs.	3ms/step	-	loss:	0.0637 -	accur	acy:	0.9802	- val_loss:	0.0786 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0636 -	accui	acy:	0.9798	- val_loss:	0.0783 -	val_accuracy:	0.9735
	147/1500 []	- (ðs.	4ms/step	-	loss:	0.0636 -	accur	acy:	0.9802	- val_loss:	0.0784 -	val_accuracy:	0.9735
	148/1500	- (a c	Ams/stan	_	1000	0 0635 -	300111	acv.	0 9798	- val loss	0 0784 -	val accuracy:	A 9735
Epoch	149/1500								-		_			
	[========] 150/1500	- (ðs.	3ms/step	-	loss:	0.0634 -	accui	acy:	0.9798	- val_loss:	0.0784 -	val_accuracy:	0.9735
	[=======] 151/1500	- (ðs.	3ms/step	-	loss:	0.0634 -	accui	acy:	0.9802	- val_loss:	0.0784 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0633 -	accui	acy:	0.9802	- val_loss:	0.0785 -	val_accuracy:	0.9735
	152/1500 []	- (ðs.	3ms/step	_	loss:	0.0633 -	accui	acy:	0.9798	- val_loss:	0.0785 -	val_accuracy:	0.9735
	153/1500 []	- 6	ac	2ms/sten	_	loss.	0 0632 -	accili	acv.	a 9798	- val loss	0 0784 -	val accuracy:	0 9735
Epoch	154/1500													
	[========] 155/1500	- (ðs	3ms/step	-	loss:	0.0631 -	accui	acy:	0.9798	- val_loss:	0.0781 -	val_accuracy:	0.9735
	[======] 156/1500	- (ðs.	3ms/step	-	loss:	0.0631 -	accur	acy:	0.9802	- val_loss:	0.0783 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0630 -	accui	acy:	0.9798	- val_loss:	0.0782 -	val_accuracy:	0.9735
	157/1500 []	- (ðs.	3ms/step	-	loss:	0.0630 -	accur	acy:	0.9794	- val_loss:	0.0782 -	val_accuracy:	0.9735
	158/1500 []	- (a c	2ms/stan	_	1000	0 0629 -	300111	acv.	0 9798	- val loss	0 0784 -	val accuracy:	A 9735
Epoch	159/1500													
	[========] 160/1500	- (ðs.	2ms/step	-	loss:	0.0629 -	accui	acy:	0.9798	- val_loss:	0.0785 -	val_accuracy:	0.9735
	[=======] 161/1500	- (ðs.	3ms/step	-	loss:	0.0628 -	accui	acy:	0.9798	- val_loss:	0.0784 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0628 -	accui	acy:	0.9802	- val_loss:	0.0783 -	val_accuracy:	0.9735
	162/1500 []	- (ðs.	2ms/step	_	loss:	0.0627 -	accui	acy:	0.9798	- val_loss:	0.0784 -	val_accuracy:	0.9735
	163/1500 [=======]	- 6	as	3ms/sten	_	loss:	0.0626 -	accui	acv:	0.9798	- val loss:	0.0783 -	val accuracy:	0.9735
Epoch	164/1500								-		_			
Epoch	[=======] 165/1500								•		_		val_accuracy:	
	[========] 166/1500	- (ðs.	2ms/step	-	loss:	0.0626 -	accui	acy:	0.9798	- val_loss:	0.0783 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0625 -	accui	acy:	0.9798	- val_loss:	0.0782 -	val_accuracy:	0.9722
	167/1500 [=======]	- (ðs.	3ms/step	-	loss:	0.0624 -	accur	acy:	0.9798	- val_loss:	0.0782 -	val_accuracy:	0.9735
	168/1500 []	- 6	as	3ms/sten	_	loss:	0.0624 -	accui	acv:	0.9802	- val loss:	0.0781 -	val accuracy:	0.9710
Epoch	169/1500													
Epoch	[=======] 170/1500													
	[======] 171/1500	- (ðs.	3ms/step	-	loss:	0.0623 -	accui	acy:	0.9798	- val_loss:	0.0781 -	val_accuracy:	0.9722
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0622 -	accui	acy:	0.9802	- val_loss:	0.0782 -	val_accuracy:	0.9722
	172/1500 [=======]	- (ðs.	3ms/step	-	loss:	0.0622 -	accui	acy:	0.9798	- val_loss:	0.0781 -	val_accuracy:	0.9710
	173/1500 []	- (ðs.	3ms/step	_	loss:	0.0621 -	accur	acv:	0.9794	- val loss:	0.0781 -	val accuracy:	0.9722
Epoch	174/1500													
Epoch	[========] 175/1500								-		_			
	[========] 176/1500	- (ðs.	3ms/step	-	loss:	0.0620 -	accui	acy:	0.9802	- val_loss:	0.0781 -	val_accuracy:	0.9710
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0620 -	accui	acy:	0.9798	- val_loss:	0.0780 -	val_accuracy:	0.9710
	177/1500 []	- (ðs.	3ms/step	-	loss:	0.0619 -	accur	acy:	0.9802	- val_loss:	0.0780 -	val_accuracy:	0.9710
	178/1500 []	- (a c	2ms/stan	_	1000	0 0610 -	300111	acv.	a 9811	- val loss	0 0780 -	val accuracy:	0 9710
Epoch	179/1500													
	[=======] 180/1500	- (ðs	2ms/step	-	loss:	0.0618 -	accui	acy:	0.9798	- val_loss:	0.0779 -	val_accuracy:	0.9710
75/75	[=======] 181/1500	- (ðs.	3ms/step	-	loss:	0.0618 -	accui	acy:	0.9802	- val_loss:	0.0778 -	val_accuracy:	0.9710
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0617 -	accui	acy:	0.9806	- val_loss:	0.0777 -	val_accuracy:	0.9710
	182/1500 []	- (ðs.	3ms/step	_	loss:	0.0617 -	accui	acy:	0.9806	- val_loss:	0.0777 -	val_accuracy:	0.9710
	183/1500 []	- 6	ac	2ms/sten	_	loss.	0 0616 -	accili	acv.	a 9886 ·	- val loss	0 0776 -	val accuracy:	a 971a
Epoch	184/1500													
	[=======] 185/1500	- (ðs.	3ms/step	-	loss:	0.0616 -	accur	acy:	0.9806	- val_loss:	0.0775 -	val_accuracy:	0.9722
75/75	[======] 186/1500	- (ðs.	2ms/step	-	loss:	0.0615 -	accur	acy:	0.9811	- val_loss:	0.0776 -	val_accuracy:	0.9697
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0615 -	accui	acy:	0.9806	- val_loss:	0.0776 -	val_accuracy:	0.9697
75/75	187/1500 [=======]	- (ðs.	2ms/step	-	loss:	0.0614 -	accur	acy:	0.9806	- val_loss:	0.0776 -	val_accuracy:	0.9697
Epoch	188/1500 []													
Epoch	189/1500								-		_			
Epoch	[=======] 190/1500													
75/75	[=======] 191/1500	- (ðs.	2ms/step	-	loss:	0.0613 -	accui	acy:	0.9806	- val_loss:	0.0771 -	val_accuracy:	0.9697
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0613 -	accui	acy:	0.9806	- val_loss:	0.0771 -	val_accuracy:	0.9697
	192/1500 []	- 6	ðs.	2ms/sten	_	loss:	0.0613 -	accui	acy:	0.9802	- val loss:	0.0771 -	val_accuracv:	0.9697
-	,		-				-		, .			-	/.	

	193/1500					_							
	[=======] 194/1500	-	0s	2ms/step	- :	loss:	0.0611 -	accuracy	0.9806 -	val_loss:	0.0771 -	val_accuracy:	0.9697
	[======] 195/1500	-	0s	2ms/step	- :	loss:	0.0612 -	accuracy	0.9806 -	val_loss:	0.0770 -	val_accuracy:	0.9697
75/75	[]	-	0s	2ms/step	- :	loss:	0.0611 -	accuracy	0.9802 -	val_loss:	0.0769 -	val_accuracy:	0.9710
	196/1500 [=======]	-	0s	3ms/step	- :	loss:	0.0611 -	accuracy	0.9802 -	val_loss:	0.0770 -	val_accuracy:	0.9697
	197/1500	_	0s	3ms/step	- :	loss:	0.0610 -	accuracy	0.9802 -	val loss:	0.0769 -	val accuracy:	0.9697
Epoch	198/1500							-		_			
Epoch	[======] 199/1500												
	[========] 200/1500	-	0s	3ms/step	- :	loss:	0.0609 -	accuracy	0.9811 -	val_loss:	0.0769 -	val_accuracy:	0.9697
75/75	[=======] 201/1500	-	0s	3ms/step	- :	loss:	0.0609 -	accuracy	0.9811 -	val_loss:	0.0770 -	val_accuracy:	0.9697
75/75	[]	-	0s	3ms/step	- :	loss:	0.0608 -	accuracy	0.9806 -	val_loss:	0.0768 -	val_accuracy:	0.9697
	202/1500 [=======]	-	0s	4ms/step	- :	loss:	0.0608 -	accuracy	0.9811 -	val_loss:	0.0767 -	val_accuracy:	0.9697
	203/1500	_	9s	4ms/sten		loss:	0.0607 -	accuracy	0.9811 -	val loss:	0.0767 -	val accuracy:	0.9697
Epoch	204/1500												
Epoch	[=======] 205/1500												
	[=======] 206/1500	-	0s	4ms/step	- :	loss:	0.0606 -	accuracy	0.9806 -	val_loss:	0.0766 -	val_accuracy:	0.9697
75/75	[======] 207/1500	-	0s	3ms/step	- :	loss:	0.0606 -	accuracy	0.9806 -	val_loss:	0.0767 -	val_accuracy:	0.9697
75/75	[]	-	0s	4ms/step	- :	loss:	0.0606 -	accuracy	0.9815 -	val_loss:	0.0767 -	val_accuracy:	0.9697
	208/1500	_	0s	3ms/step	_ :	loss:	0.0605 -	accuracy	0.9811 -	val loss:	0.0766 -	val accuracy:	0.9697
Epoch	209/1500												
Epoch	[======] 210/1500												
	[=======] 211/1500	-	0s	3ms/step	- :	loss:	0.0604 -	accuracy	0.9811 -	val_loss:	0.0766 -	val_accuracy:	0.9710
75/75	[=======] 212/1500	-	0s	4ms/step	- :	loss:	0.0604 -	accuracy	0.9815 -	val_loss:	0.0765 -	val_accuracy:	0.9697
75/75	[]	-	0s	4ms/step	- :	loss:	0.0603 -	accuracy	0.9815 -	val_loss:	0.0764 -	val_accuracy:	0.9697
75/75	213/1500 [=======]	-	0s	4ms/step	- :	loss:	0.0603 -	accuracy	0.9815 -	val_loss:	0.0762 -	val_accuracy:	0.9710
Epoch	214/1500 [======]												
Epoch	215/1500												
	[=======] 216/1500	-	0s	4ms/step	-	loss:	0.0602 -	accuracy	0.9815 -	val_loss:	0.0764 -	val_accuracy:	0.9697
	[======] 217/1500	-	0s	2ms/step	- :	loss:	0.0602 -	accuracy	0.9811 -	val_loss:	0.0763 -	val_accuracy:	0.9697
75/75	[]	-	0s	3ms/step	- :	loss:	0.0601 -	accuracy	0.9815 -	val_loss:	0.0765 -	val_accuracy:	0.9710
	218/1500 []	-	0s	3ms/step	- :	loss:	0.0601 -	accuracy	0.9806 -	val_loss:	0.0763 -	val_accuracy:	0.9710
	219/1500	_	0s	2ms/step	- :	loss:	0.0600 -	accuracy	0.9815 -	val loss:	0.0761 -	val accuracy:	0.9710
Epoch	220/1500												
Epoch	[=======] 221/1500												
	[======] 222/1500	-	0s	3ms/step	- :	loss:	0.0600 -	accuracy	0.9815 -	val_loss:	0.0760 -	val_accuracy:	0.9710
	[=======] 223/1500	-	0s	2ms/step	- :	loss:	0.0599 -	accuracy	0.9811 -	val_loss:	0.0760 -	val_accuracy:	0.9710
75/75	[]	-	0s	2ms/step	- :	loss:	0.0599 -	accuracy	0.9815 -	val_loss:	0.0759 -	val_accuracy:	0.9710
	224/1500 []	_	0s	2ms/step	_ :	loss:	0.0598 -	accuracy	0.9815 -	val loss:	0.0759 -	val accuracy:	0.9710
Epoch	225/1500 []												
Epoch	226/1500												
	[========] 227/1500	-	0s	3ms/step	-	loss:	0.0598 -	accuracy	0.9815 -	val_loss:	0.0757 -	val_accuracy:	0.9710
	[======] 228/1500	-	0s	2ms/step	- :	loss:	0.0597 -	accuracy	0.9815 -	val_loss:	0.0757 -	val_accuracy:	0.9710
75/75	[]	-	0s	3ms/step	- :	loss:	0.0596 -	accuracy	0.9815 -	val_loss:	0.0757 -	val_accuracy:	0.9710
	229/1500 []	-	0s	2ms/step	- :	loss:	0.0596 -	accuracy	0.9815 -	val_loss:	0.0756 -	val_accuracy:	0.9710
	230/1500	_	۵s	3ms/sten		loss.	a asas -	accuracy	0 9815 -	val loss:	a a756 -	val accuracy:	a 971a
Epoch	231/1500							-		_			
Epoch	[=======] 232/1500							-		_			
	[======] 233/1500	-	0s	2ms/step	- :	loss:	0.0595 -	accuracy	0.9806 -	val_loss:	0.0755 -	val_accuracy:	0.9710
75/75	[]	-	0s	3ms/step	- :	loss:	0.0595 -	accuracy	0.9815 -	val_loss:	0.0754 -	val_accuracy:	0.9710
75/75	234/1500 [========]	-	0s	3ms/step	- :	loss:	0.0594 -	accuracy	0.9815 -	val_loss:	0.0753 -	val_accuracy:	0.9710
	235/1500	_	0s	2ms/step	_ :	loss:	0.0593 -	accuracy	0.9815 -	val loss:	0.0754 -	val accuracy:	0.9710
Epoch	236/1500												
Epoch	[=======] 237/1500							-		_			
	[=======] 238/1500	-	0s	2ms/step	- :	loss:	0.0593 -	accuracy	0.9811 -	val_loss:	0.0752 -	val_accuracy:	0.9710
75/75	[=======] 239/1500	-	0s	3ms/step	- :	loss:	0.0593 -	accuracy	0.9815 -	val_loss:	0.0751 -	val_accuracy:	0.9710
75/75	[]	-	0s	3ms/step	- 3	loss:	0.0592 -	accuracy	0.9811 -	val_loss:	0.0750 -	val_accuracy:	0.9710
	240/1500	_	0s	3ms/step	- :	loss:	0.0592 -	accuracy	0.9815 -	val loss:	0.0750 -	val accuracy:	0.9710
Epoch	241/1500												
	[========] 242/1500	-	ØS.	3ms/step	-	loss:	0.0590 -	accuracy	0.9811 -	val_loss:	0.0/50 -	val_accuracy:	0.9/10
	[======] 243/1500	-	0s	3ms/step	- :	loss:	0.0591 -	accuracy	0.9815 -	val_loss:	0.0749 -	val_accuracy:	0.9710
75/75	[]	-	0s	3ms/step	- :	loss:	0.0591 -	accuracy	0.9811 -	val_loss:	0.0747 -	val_accuracy:	0.9710
	244/1500 [=======]	-	0s	3ms/step	- :	loss:	0.0591 -	accuracy	0.9811 -	val_loss:	0.0748 -	val_accuracy:	0.9710
	245/1500 []	_	0s	3ms/step	_ :	loss:	0.0590 -	accuracy	0.9811 -	val loss:	0.0749 -	val accuracy:	0.9710
Epoch	246/1500												
Epoch	[=======] 247/1500							-		_			
	[========] 248/1500	-	0s	3ms/step	- :	loss:	0.0589 -	accuracy	0.9811 -	val_loss:	0.0747 -	val_accuracy:	0.9710
75/75	[]	-	0s	2ms/step	- :	loss:	0.0589 -	accuracy	0.9811 -	val_loss:	0.0747 -	val_accuracy:	0.9710
75/75	249/1500 [======]	-	0s	3ms/step	- :	loss:	0.0588 -	accuracy	0.9815 -	val_loss:	0.0745 -	val_accuracy:	0.9710
	250/1500 []	_	0s	3ms/sten		loss:	0.0588 -	accuracy	0.9811 -	val loss:	0.0745 -	val_accuracv:	0.9710
Epoch	251/1500												
Epoch	[======] 252/1500												
	[======] 253/1500	-	0s	3ms/step	- :	loss:	0.0588 -	accuracy	0.9811 -	val_loss:	0.0743 -	val_accuracy:	0.9697
75/75	[]	-	0s	3ms/step	- :	loss:	0.0586 -	accuracy	0.9815 -	val_loss:	0.0743 -	val_accuracy:	0.9697
75/75	254/1500 [======]	-	0s	3ms/step	- :	loss:	0.0587 -	accuracy	0.9811 -	val_loss:	0.0742 -	val_accuracy:	0.9697
	255/1500 []	_	0s	3ms/step	_	loss:	0.0586 -	accuracy	0.9811 -	val_loss:	0.0742 -	val_accuracv:	0.9697
Epoch	256/1500												
/5/75	[]	-	ØS	∠ms/step	- :	TOSS:	v.0586 -	accuracy	0.9811 -	var_loss:	v.0742 -	val_accuracy:	ø.9697

Epoch	257/1500										
	[]	-	0s	3ms/step	- loss:	0.0585 - accurac	cy: 0.9811 -	val_loss:	0.0742 -	val_accuracy:	0.9697
	258/1500 [=======]	_	0s	2ms/step	- loss:	0.0585 - accurac	cy: 0.9815 -	- val loss:	0.0741 -	val accuracy:	0.9697
Epoch	259/1500						-	_			
	[=======] 260/1500	-	ØS	3ms/step	- loss:	0.0585 - accurac	cy: 0.9811 -	· val_loss:	0.0/41 -	val_accuracy:	0.9697
75/75	[]	-	0s	2ms/step	- loss:	0.0584 - accurac	cy: 0.9806 -	val_loss:	0.0740 -	val_accuracy:	0.9697
	261/1500 []	_	0s	3ms/step	- loss:	0.0584 - accurac	cy: 0.9811 -	- val loss:	0.0740 -	val accuracy:	0.9697
Epoch	262/1500										
	[=========] 263/1500	-	0s	3ms/step	- loss:	0.0584 - accurac	cy: 0.9811 -	· val_loss:	0.0740 -	val_accuracy:	0.9697
75/75	[]	-	0s	3ms/step	- loss:	0.0583 - accurac	cy: 0.9811 -	val_loss:	0.0739 -	val_accuracy:	0.9697
	264/1500 [=======]	_	0s	4ms/sten	- loss:	0.0583 - accurac	rv: 0.9806 -	val loss:	0.0739 -	val accuracy:	0.9697
Epoch	265/1500						-	_			
	[======] 266/1500	-	0s	4ms/step	- loss:	0.0583 - accurac	cy: 0.9802 -	· val_loss:	0.0738 -	val_accuracy:	0.9697
75/75	[]	-	0s	4ms/step	- loss:	0.0582 - accurac	cy: 0.9811 -	val_loss:	0.0738 -	val_accuracy:	0.9697
	267/1500 [======]	_	0s	3ms/sten	- loss:	0.0582 - accurac	rv: 0.9815 -	val loss:	0.0739 -	val accuracy:	0.9697
Epoch	268/1500							_			
	[=======] 269/1500	-	0s	3ms/step	- loss:	0.0582 - accurac	cy: 0.9815 -	- val_loss:	0.0738 -	val_accuracy:	0.9697
	[=======]	-	0s	4ms/step	- loss:	0.0582 - accurac	cy: 0.9811 -	val_loss:	0.0738 -	val_accuracy:	0.9697
	270/1500 []	_	۵c	Ame/ston	- 1000	0 0581 - accura	cv. 0 9811 .	val loss:	0 0737 -	val accuracy:	0 9697
	271/1500		03	-нііз/ зсер	- 1033.	0.0301 - accurac	cy. 0.5011	vai_1033.	0.0737	var_accuracy.	0.5057
	[======] 272/1500	-	0s	4ms/step	- loss:	0.0581 - accurac	cy: 0.9819 -	val_loss:	0.0736 -	val_accuracy:	0.9710
	[]	_	0s	4ms/step	- loss:	0.0580 - accurac	cy: 0.9806 -	- val_loss:	0.0736 -	val_accuracy:	0.9710
	273/1500		0-	F (-t	1	0.0500	0 0011		0.0726		0.0740
	[======] 274/1500	-	05	Sms/step	- 1055:	0.0580 - accurac	cy: 0.9811 -	· vai_ioss:	0.0/36 -	vai_accuracy:	0.9/10
75/75	[]	-	0s	5ms/step	- loss:	0.0580 - accurac	cy: 0.9811 -	val_loss:	0.0736 -	val_accuracy:	0.9710
	275/1500 []	_	0s	4ms/step	- loss:	0.0579 - accurac	cy: 0.9806 -	- val loss:	0.0736 -	val accuracy:	0.9710
Epoch	276/1500										
	[=======] 277/1500	-	ØS	4ms/step	- loss:	0.05/9 - accurac	cy: 0.9806 -	· val_loss:	0.0/35 -	val_accuracy:	0.9/10
75/75	[]	-	0s	3ms/step	- loss:	0.0579 - accurac	cy: 0.9815 -	val_loss:	0.0736 -	val_accuracy:	0.9710
	278/1500 []	_	0s	2ms/sten	- loss:	0.0579 - accurac	rv: 0.9811 -	val loss:	0.0736 -	val accuracy:	0.9710
Epoch	279/1500										
	[========] 280/1500	-	0s	2ms/step	- loss:	0.0578 - accurac	cy: 0.9819 -	· val_loss:	0.0735 -	val_accuracy:	0.9710
75/75	[]	-	0s	3ms/step	- loss:	0.0578 - accurac	cy: 0.9806 -	val_loss:	0.0735 -	val_accuracy:	0.9710
	281/1500 []	_	۵s	3ms/sten	- loss:	0 0578 - accurac	rv• 0 9815 .	val loss.	0 0734 -	val accuracy:	0 9710
Epoch	282/1500										
	[=======] 283/1500	-	0s	2ms/step	- loss:	0.0578 - accurac	cy: 0.9815 -	- val_loss:	0.0733 -	val_accuracy:	0.9710
	[=======]	-	0s	2ms/step	- loss:	0.0577 - accurac	cy: 0.9811 -	val_loss:	0.0733 -	val_accuracy:	0.9710
	284/1500 []		Q.c	2mc/ston	locci	0 0E76 200Up2	cv. A 0011	val loss:	0 0722	val accumacy:	0.0607
	285/1500		03	Ziiis/step	- 1055.	0.0370 - accurac	Ly. 0.3011 ·	· vai_1055.	0.0732 -	vai_accuracy.	0.5057
	[=========]	-	0s	2ms/step	- loss:	0.0576 - accurac	cy: 0.9811 -	val_loss:	0.0732 -	val_accuracy:	0.9710
	286/1500 []	_	0s	2ms/step	- loss:	0.0576 - accurac	cy: 0.9815 -	- val_loss:	0.0731 -	val_accuracy:	0.9697
	287/1500		0.0	2ms/ston	1	0.0576	0 0011	wal lass.	0 0731		0.0710
	[========] 288/1500	-	05	ZIIIS/Step	- 1055:	0.0576 - accurac	Ly: 0.9611 -	. vai_1055:	0.0/31 -	vai_accuracy:	0.9710
	[=====]	-	0s	2ms/step	- loss:	0.0576 - accurac	cy: 0.9819 -	val_loss:	0.0732 -	val_accuracy:	0.9710
	289/1500 []	_	0s	3ms/step	- loss:	0.0575 - accurac	cy: 0.9806 -	- val_loss:	0.0731 -	val_accuracy:	0.9710
Epoch	290/1500										
	[======] 291/1500	-	ØS.	3ms/step	- loss:	0.05/5 - accurac	cy: 0.9819 -	· val_loss:	0.0/31 -	val_accuracy:	0.9/10
	[======]	-	0s	3ms/step	- loss:	0.0575 - accurac	cy: 0.9815 -	val_loss:	0.0731 -	val_accuracy:	0.9710
75/75	292/1500 [=======]	_	0s	3ms/step	- loss:	0.0575 - accurac	cy: 0.9815 -	- val_loss:	0.0731 -	val_accuracy:	0.9697
	293/1500										
	[========] 294/1500	-	05	oms/step	- 1055:	0.05/5 - accurac	Ly: 0.9615 -	. vai_1055:	0.0730 -	vai_accuracy:	0.9697
	[======]	-	0s	3ms/step	- loss:	0.0574 - accurac	cy: 0.9819 -	val_loss:	0.0730 -	val_accuracy:	0.9697
	295/1500 []	_	0s	3ms/step	- loss:	0.0574 - accurac	cy: 0.9811 -	- val_loss:	0.0728 -	val_accuracy:	0.9697
Epoch	296/1500										
	[======] 297/1500	-	ØS	3ms/step	- loss:	0.05/3 - accurac	cy: 0.9806 -	· val_loss:	0.0728 -	val_accuracy:	0.9697
75/75	[]	-	0s	3ms/step	- loss:	0.0573 - accurac	cy: 0.9819 -	val_loss:	0.0728 -	val_accuracy:	0.9697
	298/1500 [=======]	_	0s	3ms/sten	- loss:	0.0573 - accurac	rv: 0.9819 -	- val loss:	0.0728 -	val accuracy:	0.9697
Epoch	299/1500						-	_			
	[======] 300/1500	-	0s	3ms/step	- loss:	0.0573 - accurac	cy: 0.9819 -	· val_loss:	0.0729 -	val_accuracy:	0.9697
75/75	[]	-	0s	2ms/step	- loss:	0.0572 - accurac	cy: 0.9811 -	val_loss:	0.0728 -	val_accuracy:	0.9697
	301/1500	_	0<	3ms/sten	- loss:	0.0572 - accura	cy: 0.9815	- val loss:	0.0728 -	val accuracy:	0.9697
Epoch	302/1500							_			
	[======] 303/1500	-	0s	2ms/step	- loss:	0.0572 - accurac	cy: 0.9806	val_loss:	0.0727 -	val_accuracy:	0.9697
			٥-	3ms/step	- loss:	0.0572 - accurac	rv. 0 9815 .			_	
	[]	-	05	,			cy. 0.3013	· val_loss:	0.0727 -	val_accuracy:	0.9697
	304/1500										
75/75 Epoch	304/1500 [======] 305/1500	-	0s	3ms/step	- loss:	0.0571 - accurac	cy: 0.9806 -	- val_loss:	0.0728 -	val_accuracy:	0.9697
75/75 Epoch 75/75	304/1500 [] 305/1500 []	-	0s	3ms/step	- loss:	0.0571 - accurac	cy: 0.9806 -	- val_loss:	0.0728 -	val_accuracy:	0.9697
75/75 Epoch 75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 []	-	0s 0s	3ms/step	- loss: - loss:	0.0571 - accurac	cy: 0.9806 -	val_loss:	0.0728 - 0.0727 -	<pre>val_accuracy: val_accuracy:</pre>	0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 307/1500	-	0s 0s 0s	3ms/step 2ms/step 3ms/step	- loss: - loss: - loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac	cy: 0.9806 -	<pre>val_loss: val_loss: val_loss:</pre>	0.0728 - 0.0727 - 0.0727 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.9697 0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 []	-	0s 0s 0s	3ms/step 2ms/step 3ms/step	- loss: - loss: - loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac	cy: 0.9806 -	<pre>val_loss: val_loss: val_loss:</pre>	0.0728 - 0.0727 - 0.0727 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.9697 0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 []	-	0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step	- loss: - loss: - loss: - loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9806 -	val_loss: val_loss: val_loss: val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.9697 0.9697 0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 307/1500 [] 308/1500		0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step	- loss: - loss: - loss: - loss: - loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac	cy: 0.9806 - cy: 0.9815 - cy: 0	<pre>val_loss: val_loss: val_loss: val_loss: val_loss:</pre>	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0726 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.9697 0.9697 0.9697 0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 309/1500 [] 309/1500 []		0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 3ms/step 3ms/step	- loss: - loss: - loss: - loss: - loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9806 - cy: 0.9806 - cy: 0.9823 - cy: 0	<pre>val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:</pre>	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0726 - 0.0724 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.9697 0.9697 0.9697 0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 309/1500 [] 310/1500 []		0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 3ms/step 3ms/step	- loss: - loss: - loss: - loss: - loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9806 - cy: 0.9806 - cy: 0.9823 - cy: 0	<pre>val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:</pre>	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0726 - 0.0724 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.9697 0.9697 0.9697 0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	304/1500 [] 305/1500 [] 307/1500 [] 308/1500 [] 309/1500 [] 309/1500 [] 310/1500 [] 311/1500 [] 311/1500 []		0s 0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 2ms/step	- loss: - loss: - loss: - loss: - loss: - loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9815 - cy: 0.9823 - cy: 0.9798 - cy: 0.9788 - cy: 0.9788 - cy: 0	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0726 - 0.0724 - 0.0723 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 308/1500 [] 309/1500 [] 310/1500 [] 311/1500 [] 311/1500		0s 0s 0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 3ms/step	- loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9866 - cy: 0.9823 - cy: 0.9823 - cy: 0.9823 - cy: 0.9823 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0726 - 0.0724 - 0.0723 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9697
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 309/1500 [] 310/1500 [] 310/1500 [] 312/1500 [] 313/1500		0s 0s 0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 2ms/step 2ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9815 - cy: 0.9823 - cy: 0	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0728 - 0.0727 - 0.0726 - 0.0726 - 0.0726 - 0.0724 - 0.0723 - 0.0724 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 307/1500 [] 310/1500 [] 311/1500 [] 313/1500 [] 313/1500 []		0s 0s 0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 2ms/step 2ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9815 - cy: 0.9823 - cy: 0	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0728 - 0.0727 - 0.0726 - 0.0726 - 0.0726 - 0.0724 - 0.0723 - 0.0724 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710
75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 308/1500 [] 309/1500 [] 310/1500 [] 311/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 []		0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 3ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0569 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9815 - cy: 0.9823 - cy: 0.9823 - cy: 0.9815 - cy: 0.9823 - cy: 0.9815 - cy: 0.9811 - cy: 0.9802 - cy: 0.9811 - cy: 0.9811 - cy: 0.9811	val_loss:	0.0728 - 0.0727 - 0.0726 - 0.0726 - 0.0724 - 0.0724 - 0.0724 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710
75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 309/1500 [] 310/1500 [] 311/1500 [] 313/1500 [] 313/1500 [] 314/1500 [] 315/1500		0s	3ms/step 2ms/step 2ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0569 - accurac 0.0569 - accurac 0.0569 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9805 - cy: 0.9815 - cy: 0.9806 - cy: 0.9823 - cy: 0.9815 - cy: 0.9815 - cy: 0.9815 - cy: 0.9815 - cy: 0.9802 - cy: 0.9802 - cy: 0.9802 - cy: 0.9806 - cy: 0	val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0726 - 0.0724 - 0.0724 - 0.0724 - 0.0724 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710 0.9697
75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 310/1500 [] 311/1500 [] 313/1500 [] 314/1500 [] 314/1500 [] 315/1500 [] 315/1500 [] 316/1500		0s 0s 0s 0s 0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 2ms/step 3ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0568 - accurac 0.0569 - accurac 0.0568 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9806 - cy: 0.9815 - cy: 0.9823 - cy: 0.9823 - cy: 0.9825 - cy: 0.9815 - cy: 0.9806	val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0726 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0725 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710 0.9697 0.9697
75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 309/1500 [] 310/1500 [] 311/1500 [] 313/1500 [] 315/1500 [] 315/1500 [] 316/1500 [] 316/1500 [0s 0s 0s 0s 0s 0s 0s 0s	3ms/step 2ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 2ms/step 3ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0568 - accurac 0.0569 - accurac 0.0568 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9806 - cy: 0.9815 - cy: 0.9823 - cy: 0.9823 - cy: 0.9825 - cy: 0.9815 - cy: 0.9806	val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0726 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0725 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710 0.9697 0.9697
75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 310/1500 [] 311/1500 [] 313/1500 [] 314/1500 [] 314/1500 [] 315/1500 [] 315/1500 [] 316/1500		9s	ams/step 2ms/step 2ms/step 3ms/step 3ms/step 2ms/step 2ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9866 - cy: 0.9815 - cy: 0.9806 - cy: 0.9815 - cy: 0.9823 - cy: 0.9885 - cy: 0.9815 - cy: 0.9806 - cy: 0.9806 - cy: 0.9806 - cy: 0.9806 - cy: 0.9815 -	val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0725 - 0.0724 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710 0.9697 0.9710 0.9710
75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 308/1500 [] 309/1500 [] 310/1500 [] 311/1500 [] 312/1500 [] 313/1500 [] 313/1500 [] 313/1500 [] 313/1500 [] 314/1500 [] 315/1500 [] 317/1500 [] 317/1500 [] 317/1500		9s	3ms/step 2ms/step 3ms/step 3ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 2ms/step 2ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac	cy: 0.9806 - cy: 0.9815 - cy: 0.9806 - cy: 0.9815 - cy: 0.9806 - cy: 0.9808 - cy: 0	val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0724 - 0.0723 - 0.0724 - 0.0724 - 0.0725 - 0.0724 - 0.0725 - 0.0724 - 0.0725 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710 0.9710 0.9710 0.9710
75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 309/1500 [] 310/1500 [] 311/1500 [] 313/1500 [] 314/1500 [] 314/1500 [] 316/1500 [] 317/1500 [9s	3ms/step 2ms/step 3ms/step 3ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 2ms/step 2ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac	cy: 0.9806 - cy: 0.9815 - cy: 0.9806 - cy: 0.9815 - cy: 0.9806 - cy: 0.9808 - cy: 0	val_loss:	0.0728 - 0.0727 - 0.0727 - 0.0726 - 0.0724 - 0.0723 - 0.0724 - 0.0724 - 0.0725 - 0.0724 - 0.0725 - 0.0724 - 0.0725 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710 0.9710 0.9710 0.9710
75/75 Epoch 75/75	304/1500 [] 305/1500 [] 306/1500 [] 306/1500 [] 307/1500 [] 310/1500 [] 310/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [] 31/1500 [9s	ams/step 2ms/step 2ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0569 - accurac 0.0569 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9815 - cy: 0.9823 - cy: 0.9823 - cy: 0.9824 - cy: 0.9885 - cy: 0.9885 - cy: 0.9885 - cy: 0.9885 - cy: 0.9886 - cy: 0.9882 - cy: 0.9882 - cy: 0.9882 - cy: 0.9882 - cy: 0.9883 -	val_loss:	0.0728 - 0.0727 - 0.0726 - 0.0726 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710 0.9710 0.9710 0.9710 0.9710
75/75 Epoch	304/1500 [] 305/1500 [] 306/1500 [] 307/1500 [] 308/1500 [] 309/1500 [] 310/1500 [] 311/1500 [] 313/1500 [] 315/1500 [] 316/1500 [] 316/1500 [] 316/1500 [] 316/1500 [] 316/1500 [] 316/1500 [] 316/1500 [] 316/1500 [] 318/1500 [] 318/1500		9s 9s 9s 9s 9s 9s 9s 9s	ams/step 2ms/step 2ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step	- loss:	0.0571 - accurac 0.0571 - accurac 0.0571 - accurac 0.0570 - accurac 0.0570 - accurac 0.0569 - accurac 0.0569 - accurac 0.0569 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac 0.0568 - accurac 0.0567 - accurac 0.0567 - accurac	cy: 0.9806 - cy: 0.9811 - cy: 0.9806 - cy: 0.9815 - cy: 0.9823 - cy: 0.9823 - cy: 0.9825 - cy: 0.9806 - cy: 0.9808 - cy: 0	val_loss:	0.0728 - 0.0727 - 0.0726 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0724 - 0.0725 - 0.0724 - 0.0725 - 0.0724 - 0.0723 - 0.0724 - 0.0723 -	val_accuracy:	0.9697 0.9697 0.9697 0.9697 0.9697 0.9697 0.9710 0.9710 0.9697 0.9710 0.9710 0.9710 0.9710

Epoch	321/1500												
	[=======] 322/1500	-	0s	3ms/step	-	loss:	0.0566 -	accuracy:	0.9802 -	val_loss:	0.0722 -	val_accuracy:	0.9697
75/75	[]	-	0s	2ms/step	-	loss:	0.0566 -	accuracy:	0.9815 -	val_loss:	0.0722 -	val_accuracy:	0.9697
	323/1500 [========]	_	0s	2ms/step	-	loss:	0.0566 -	accuracy:	0.9811 -	val_loss:	0.0722 -	val_accuracy:	0.9697
	324/1500	_	0s	3ms/step	_	loss:	0.0565 -	accuracy:	0.9815 -	val loss:	0.0722 -	val accuracy:	0.9697
Epoch	325/1500 []							-		_			
Epoch	326/1500												
Epoch	[=======] 327/1500												
	[=======] 328/1500	-	0s	4ms/step	-	loss:	0.0564 -	accuracy:	0.9819 -	val_loss:	0.0722 -	val_accuracy:	0.9697
75/75	[======] 329/1500	-	0s	4ms/step	-	loss:	0.0564 -	accuracy:	0.9815 -	val_loss:	0.0722 -	val_accuracy:	0.9697
75/75	[]	-	0s	4ms/step	-	loss:	0.0564 -	accuracy:	0.9806 -	val_loss:	0.0720 -	val_accuracy:	0.9710
	330/1500 [=======]	-	0s	3ms/step	-	loss:	0.0564 -	accuracy:	0.9815 -	val_loss:	0.0721 -	val_accuracy:	0.9710
	331/1500	_	0s	3ms/step	_	loss:	0.0563 -	accuracy:	0.9811 -	val_loss:	0.0720 -	val_accuracy:	0.9710
Epoch	332/1500												
Epoch	333/1500							-		_			
Epoch	[=======] 334/1500												
	[=======] 335/1500	-	0s	3ms/step	-	loss:	0.0562 -	accuracy:	0.9815 -	val_loss:	0.0726 -	val_accuracy:	0.9722
75/75	[======] 336/1500	-	0s	4ms/step	-	loss:	0.0565 -	accuracy:	0.9815 -	val_loss:	0.0726 -	val_accuracy:	0.9710
75/75	[]	-	0s	4ms/step	-	loss:	0.0563 -	accuracy:	0.9811 -	val_loss:	0.0724 -	val_accuracy:	0.9710
	337/1500 []	-	0s	4ms/step	-	loss:	0.0561 -	accuracy:	0.9811 -	val_loss:	0.0723 -	val_accuracy:	0.9722
	338/1500	_	0s	3ms/step	_	loss:	0.0561 -	accuracy:	0.9815 -	val loss:	0.0718 -	val accuracy:	0.9697
Epoch	339/1500 []							-		_			
Epoch	340/1500												
Epoch	[=======] 341/1500							-		_			
	[======] 342/1500	-	0s	3ms/step	-	loss:	0.0560 -	accuracy:	0.9811 -	val_loss:	0.0717 -	val_accuracy:	0.9710
75/75	[======] 343/1500	-	0s	3ms/step	-	loss:	0.0559 -	accuracy:	0.9815 -	val_loss:	0.0717 -	val_accuracy:	0.9697
75/75	[]	-	0s	3ms/step	-	loss:	0.0559 -	accuracy:	0.9815 -	val_loss:	0.0716 -	val_accuracy:	0.9697
75/75	344/1500 []	-	0s	3ms/step	-	loss:	0.0558 -	accuracy:	0.9827 -	val_loss:	0.0716 -	val_accuracy:	0.9710
	345/1500	_	0s	2ms/step	_	loss:	0.0559 -	accuracy:	0.9811 -	val_loss:	0.0715 -	val_accuracy:	0.9710
Epoch	346/1500 []												
Epoch	347/1500												
Epoch	[======] 348/1500												
	[=======] 349/1500	-	0s	3ms/step	-	loss:	0.0557 -	accuracy:	0.9815 -	val_loss:	0.0715 -	val_accuracy:	0.9697
	[======] 350/1500	-	0s	2ms/step	-	loss:	0.0557 -	accuracy:	0.9819 -	val_loss:	0.0715 -	val_accuracy:	0.9697
75/75	[=======] 351/1500	-	0s	3ms/step	-	loss:	0.0557 -	accuracy:	0.9819 -	val_loss:	0.0714 -	val_accuracy:	0.9710
75/75	[]	-	0s	3ms/step	-	loss:	0.0557 -	accuracy:	0.9815 -	val_loss:	0.0715 -	val_accuracy:	0.9722
	352/1500 [=======]	-	0s	3ms/step	-	loss:	0.0556 -	accuracy:	0.9815 -	val_loss:	0.0714 -	val_accuracy:	0.9722
	353/1500 []	_	0s	3ms/step	_	loss:	0.0556 -	accuracy:	0.9815 -	val loss:	0.0715 -	val accuracy:	0.9722
Epoch	354/1500 [======]												
Epoch	355/1500												
	[=======] 356/1500							-		_			
	[========] 357/1500	-	0s	2ms/step	-	loss:	0.0555 -	accuracy:	0.9819 -	val_loss:	0.0714 -	val_accuracy:	0.9710
	[======] 358/1500	-	0s	3ms/step	-	loss:	0.0555 -	accuracy:	0.9811 -	val_loss:	0.0715 -	val_accuracy:	0.9722
75/75	[=======] 359/1500	-	0s	3ms/step	-	loss:	0.0555 -	accuracy:	0.9819 -	val_loss:	0.0714 -	val_accuracy:	0.9722
75/75	[]	-	0s	2ms/step	-	loss:	0.0554 -	accuracy:	0.9819 -	val_loss:	0.0713 -	val_accuracy:	0.9722
75/75	360/1500 []	-	0s	3ms/step	-	loss:	0.0554 -	accuracy:	0.9815 -	val_loss:	0.0714 -	val_accuracy:	0.9722
	361/1500	_	0s	2ms/step	_	loss:	0.0554 -	accuracy:	0.9811 -	val loss:	0.0713 -	val accuracy:	0.9735
Epoch	362/1500 []												
Epoch	363/1500												
Epoch	[=======] 364/1500							-		_			
	[=======] 365/1500	-	0s	3ms/step	-	loss:	0.0553 -	accuracy:	0.9819 -	val_loss:	0.0712 -	val_accuracy:	0.9735
	[======] 366/1500	-	0s	2ms/step	-	loss:	0.0553 -	accuracy:	0.9815 -	val_loss:	0.0712 -	val_accuracy:	0.9735
75/75	[======] 367/1500	-	0s	2ms/step	-	loss:	0.0552 -	accuracy:	0.9815 -	val_loss:	0.0710 -	val_accuracy:	0.9722
75/75	[]	-	0s	3ms/step	-	loss:	0.0552 -	accuracy:	0.9806 -	val_loss:	0.0711 -	val_accuracy:	0.9735
	368/1500	_	0s	3ms/step	-	loss:	0.0552 -	accuracy:	0.9806 -	val_loss:	0.0711 -	val_accuracy:	0.9735
Epoch	369/1500 []												
Epoch	370/1500												
Epoch	[======] 371/1500												
	[=======] 372/1500	-	0s	3ms/step	-	loss:	0.0551 -	accuracy:	0.9827 -	val_loss:	0.0711 -	val_accuracy:	0.9735
	[======] 373/1500	-	0s	3ms/step	-	loss:	0.0551 -	accuracy:	0.9815 -	val_loss:	0.0710 -	val_accuracy:	0.9735
75/75	[]	-	0s	3ms/step	-	loss:	0.0551 -	accuracy:	0.9819 -	val_loss:	0.0709 -	val_accuracy:	0.9735
75/75	374/1500 []	-	0s	2ms/step	-	loss:	0.0551 -	accuracy:	0.9819 -	val_loss:	0.0709 -	val_accuracy:	0.9735
75/75	375/1500 [=======]	-	0s	3ms/step	-	loss:	0.0550 -	accuracy:	0.9815 -	val_loss:	0.0709 -	val_accuracy:	0.9722
Epoch	376/1500 []												
Epoch	377/1500 []												
Epoch	378/1500												
Epoch	[=======] 379/1500												
	[======] 380/1500	-	0s	3ms/step	-	loss:	0.0549 -	accuracy:	0.9819 -	val_loss:	0.0708 -	val_accuracy:	0.9722
75/75	[=======] 381/1500	-	0s	3ms/step	-	loss:	0.0549 -	accuracy:	0.9832 -	val_loss:	0.0708 -	val_accuracy:	0.9722
75/75	[]	-	1s	13ms/step	-	loss	0.0549	- accuracy	: 0.9823	- val_loss	: 0.0708	- val_accuracy	: 0.9722
75/75	382/1500 []	-	0s	4ms/step	-	loss:	0.0549 -	accuracy:	0.9827 -	val_loss:	0.0709 -	val_accuracy:	0.9722
	383/1500 []	_	0s	4ms/step	-	loss:	0.0548 -	accuracy:	0.9823 -	val_loss:	0.0709 -	val_accuracy:	0.9735
Epoch	384/1500												
13/15	[]	-	υS	step / داند	-	1055:	J.U348 -	accuracy:	0.9032 -	va1_1055:	U.U/U8 -	vai_accuracy:	0.9/35

75/75	385/1500 [======]	-	0s	4ms/step	- :	loss:	0.0548 -	accuracy:	0.9827 -	val_loss:	0.0708 -	val_accuracy:	0.9735
	386/1500	_	0s	3ms/step	- :	loss:	0.0548 -	accuracy:	0.9819 -	val_loss:	0.0708 -	val_accuracy:	0.9735
Epoch	387/1500 []												
Epoch	388/1500												
Epoch	[=======] 389/1500							-		_			
	[========] 390/1500	-	0s	4ms/step	- :	loss:	0.0547 -	accuracy:	0.9815 -	val_loss:	0.0708 -	val_accuracy:	0.9722
75/75	[======] 391/1500	-	0s	4ms/step	- :	loss:	0.0547 -	accuracy:	0.9836 -	val_loss:	0.0707 -	val_accuracy:	0.9722
75/75	[]	-	0s	4ms/step	- :	loss:	0.0547 -	accuracy:	0.9823 -	val_loss:	0.0708 -	val_accuracy:	0.9722
	392/1500	_	0s	4ms/step	- 3	loss:	0.0547 -	accuracy:	0.9823 -	val_loss:	0.0708 -	val_accuracy:	0.9735
Epoch	393/1500 [=======]												
Epoch	394/1500							-		_			
	[=======] 395/1500	-	ØS.	4ms/step		loss:	0.0546 -	accuracy:	0.9832 -	val_loss:	0.0709 -	val_accuracy:	0.9735
	[======] 396/1500	-	0s	3ms/step	- :	loss:	0.0546 -	accuracy:	0.9827 -	val_loss:	0.0709 -	val_accuracy:	0.9735
75/75	[]	-	0s	2ms/step	- :	loss:	0.0545 -	accuracy:	0.9823 -	val_loss:	0.0708 -	val_accuracy:	0.9735
75/75	397/1500 [======]	-	0s	2ms/step	- :	loss:	0.0545 -	accuracy:	0.9819 -	val_loss:	0.0708 -	val_accuracy:	0.9735
	398/1500	_	0s	3ms/step	- :	loss:	0.0545 -	accuracy:	0.9823 -	val loss:	0.0708 -	val accuracy:	0.9735
Epoch	399/1500 []							-		_			
Epoch	400/1500												
	[========] 401/1500	-	0s	3ms/step		loss:	0.0544 -	accuracy:	0.9819 -	val_loss:	0.0707 -	val_accuracy:	0.9735
75/75	[======] 402/1500	-	0s	3ms/step	- :	loss:	0.0544 -	accuracy:	0.9823 -	val_loss:	0.0707 -	val_accuracy:	0.9735
75/75	[======]	-	0s	3ms/step	- :	loss:	0.0543 -	accuracy:	0.9819 -	val_loss:	0.0706 -	val_accuracy:	0.9735
	403/1500 [========]	-	0s	3ms/step	- :	loss:	0.0544 -	accuracy:	0.9827 -	val_loss:	0.0706 -	val_accuracy:	0.9735
	404/1500	_	0s	2ms/sten		loss:	0.0543 -	accuracy:	0.9827 -	val loss:	0.0707 -	val_accuracv:	0.9735
Epoch	405/1500 [=======]							-		_			
Epoch	406/1500							-		_			
	[=======] 407/1500	-	0s	2ms/step	- :	loss:	0.0542 -	accuracy:	0.9823 -	val_loss:	0.0707 -	val_accuracy:	0.9735
75/75	[=======] 408/1500	-	0s	3ms/step	- :	loss:	0.0543 -	accuracy:	0.9827 -	val_loss:	0.0707 -	val_accuracy:	0.9735
75/75	[]	-	0s	3ms/step	- :	loss:	0.0542 -	accuracy:	0.9823 -	val_loss:	0.0707 -	val_accuracy:	0.9735
	409/1500 []	-	0s	3ms/step	- :	loss:	0.0542 -	accuracy:	0.9832 -	val_loss:	0.0707 -	val_accuracy:	0.9735
	410/1500	_	0s	3ms/sten		loss:	0.0542 -	accuracy:	0.9832 -	val loss:	0.0707 -	val accuracy:	0.9735
Epoch	411/1500												
Epoch	[=======] 412/1500												
	[=======] 413/1500	-	0s	3ms/step	- :	loss:	0.0541 -	accuracy:	0.9832 -	val_loss:	0.0706 -	val_accuracy:	0.9735
	[======] 414/1500	-	0s	3ms/step	- :	loss:	0.0541 -	accuracy:	0.9827 -	val_loss:	0.0706 -	val_accuracy:	0.9735
75/75	[======]	-	0s	2ms/step	- :	loss:	0.0541 -	accuracy:	0.9823 -	val_loss:	0.0706 -	val_accuracy:	0.9735
	415/1500 [=======]	-	0s	3ms/step	- :	loss:	0.0540 -	accuracy:	0.9827 -	val_loss:	0.0706 -	val_accuracy:	0.9735
	416/1500	_	0s	3ms/sten		loss:	0.0540 -	accuracy:	0.9827 -	val loss:	0.0705 -	val accuracy:	0.9735
Epoch	417/1500												
Epoch	[=======] 418/1500												
	[========] 419/1500	-	0s	2ms/step	- :	loss:	0.0540 -	accuracy:	0.9827 -	val_loss:	0.0704 -	val_accuracy:	0.9735
	[======] 420/1500	-	0s	2ms/step	- :	loss:	0.0540 -	accuracy:	0.9827 -	val_loss:	0.0704 -	val_accuracy:	0.9735
75/75	[======]	-	0s	3ms/step	- :	loss:	0.0540 -	accuracy:	0.9832 -	val_loss:	0.0705 -	val_accuracy:	0.9735
75/75	421/1500 []	-	0s	3ms/step	- :	loss:	0.0539 -	accuracy:	0.9823 -	val_loss:	0.0704 -	val_accuracy:	0.9735
	422/1500 [=======]	_	0s	3ms/step	- :	loss:	0.0539 -	accuracy:	0.9823 -	val loss:	0.0704 -	val accuracy:	0.9735
Epoch	423/1500 [======]							-		_			
Epoch	424/1500												
	[=========] 425/1500	-	0s	3ms/step		loss:	0.0539 -	accuracy:	0.9827 -	val_loss:	0.0705 -	val_accuracy:	0.9735
	[======] 426/1500	-	0s	2ms/step	- :	loss:	0.0538 -	accuracy:	0.9832 -	val_loss:	0.0705 -	val_accuracy:	0.9735
75/75	[]	-	0s	3ms/step	- :	loss:	0.0538 -	accuracy:	0.9832 -	val_loss:	0.0705 -	val_accuracy:	0.9735
75/75	427/1500 [=======]	-	0s	3ms/step	- :	loss:	0.0538 -	accuracy:	0.9827 -	val_loss:	0.0705 -	val_accuracy:	0.9735
	428/1500 [=======]	_	0s	2ms/step	- :	loss:	0.0538 -	accuracv:	0.9827 -	val_loss:	0.0704 -	val_accuracv:	0.9735
Epoch	429/1500 [======]							-		_			
Epoch	430/1500												
	[========] 431/1500	-	0s	2ms/step	- :	loss:	0.0537 -	accuracy:	0.9823 -	val_loss:	0.0707 -	val_accuracy:	0.9735
	[======] 432/1500	-	0s	3ms/step	- :	loss:	0.0537 -	accuracy:	0.9832 -	val_loss:	0.0705 -	val_accuracy:	0.9735
75/75	[]	-	0s	3ms/step	- 3	loss:	0.0537 -	accuracy:	0.9832 -	val_loss:	0.0703 -	val_accuracy:	0.9722
	433/1500 [========]	-	0s	3ms/step	- 3	loss:	0.0538 -	accuracy:	0.9832 -	val_loss:	0.0703 -	val_accuracy:	0.9735
	434/1500	_	0s	3ms/step	- :	loss:	0.0537 -	accuracy:	0.9836 -	val loss:	0.0704 -	val accuracy:	0.9735
Epoch	435/1500												
Epoch	[=======] 436/1500												
	[========] 437/1500	-	0s	3ms/step	- :	loss:	0.0536 -	accuracy:	0.9832 -	val_loss:	0.0702 -	val_accuracy:	0.9735
75/75	[======] 438/1500	-	0s	3ms/step	- :	loss:	0.0535 -	accuracy:	0.9832 -	val_loss:	0.0703 -	val_accuracy:	0.9735
75/75	[======]	-	0s	3ms/step	- :	loss:	0.0536 -	accuracy:	0.9827 -	val_loss:	0.0703 -	val_accuracy:	0.9735
75/75	439/1500 []	-	0s	2ms/step	- :	loss:	0.0535 -	accuracy:	0.9827 -	val_loss:	0.0702 -	val_accuracy:	0.9735
Epoch	440/1500												
Epoch	441/1500												
Epoch	[=======] 442/1500												
	[=======] 443/1500	-	0s	4ms/step	- :	loss:	0.0535 -	accuracy:	0.9827 -	val_loss:	0.0702 -	val_accuracy:	0.9735
75/75	[=======] 444/1500	-	0s	3ms/step	- :	loss:	0.0534 -	accuracy:	0.9823 -	val_loss:	0.0702 -	val_accuracy:	0.9735
75/75	[]	-	0s	4ms/step	- :	loss:	0.0534 -	accuracy:	0.9827 -	val_loss:	0.0702 -	val_accuracy:	0.9735
75/75	445/1500 []	-	0s	3ms/step	- :	loss:	0.0534 -	accuracy:	0.9827 -	val_loss:	0.0702 -	val_accuracy:	0.9735
Epoch	446/1500 [=======]												
Epoch	447/1500 [=======]												
Epoch	448/1500												
75/75	[======]	-	0s	4ms/step	- :	loss:	0.0533 -	accuracy:	0.9832 -	val_loss:	0.0701 -	val_accuracy:	0.9735

	449/1500											
	[========] 450/1500	- 0)s 4	lms/step	- loss	: 0.0532	- accuracy:	0.9832	· val_loss:	0.0701 -	val_accuracy:	0.9735
75/75	[======]	- 0	s 3	3ms/step	- loss	: 0.0532	- accuracy:	0.9827	val_loss:	0.0700 -	val_accuracy:	0.9735
	451/1500 [=======]	- a) s	3ms/sten	- 1nss	. 0 0532	- accuracy:	0 9823 -	val loss.	0 0699 -	val accuracy:	0 9735
	452/1500	- 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	лііз/ зсер	- 1033	. 0.0552	- accuracy.	0.3023	Va1_1033.	0.0055	var_accuracy.	0.5755
	[========] 453/1500	- 0)s :	3ms/step	- loss	: 0.0532	- accuracy:	0.9832	· val_loss:	0.0699 -	val_accuracy:	0.9735
	[]	- 0)s 4	4ms/step	- loss	: 0.0531	- accuracy:	0.9832	val_loss:	0.0699 -	val_accuracy:	0.9735
	454/1500 [=======]	- 0	ac /	1ms/stan	- 1000	. 0 0531	- accuracy:	0 0832	val loss:	0 0699 -	val accuracy:	0 9735
	455/1500	- 0	,,, -	низ/ эсер	- 1033	. 0.0551	- accuracy.	0.5052	Va1_1033.	0.0055	var_accuracy.	0.5755
	[========] 456/1500	- 0)s :	3ms/step	- loss	: 0.0531	- accuracy:	0.9832	· val_loss:	0.0698 -	val_accuracy:	0.9747
	[]	- 0)s 4	4ms/step	- loss	: 0.0531	- accuracy:	0.9827	val_loss:	0.0698 -	val_accuracy:	0.9747
	457/1500 [=======]	0	ac /	Ame/eton	1000	. 0 0520	accupacy	a 0022	val loce:	0 0700	val accupacy:	0 0747
	458/1500	- 0	,,, -	низ/ эсер	- 1033	. 0.0550	- accuracy.	0.5052	Va1_1033.	0.0700	var_accuracy.	0.5747
	[======] 459/1500	- 0)s 3	3ms/step	- loss	: 0.0531	- accuracy:	0.9832	val_loss:	0.0701 -	val_accuracy:	0.9747
75/75	[]	- 0)s :	3ms/step	- loss	: 0.0530	- accuracy:	0.9823	val_loss:	0.0699 -	val_accuracy:	0.9747
	460/1500	0	ac :	2mc/cton	1000	. 0 0520	accupacy	0 0027	val loce:	0 0600	val accupacy:	0 0747
	[========] 461/1500	- 0	,,,	mis/scep	- 1055	. 0.0550	- accuracy.	0.5627	· vai_1055.	0.0055 -	vai_accuracy.	0.3747
	[=========]	- 0)s 3	3ms/step	- loss	: 0.0530	- accuracy:	0.9827	val_loss:	0.0699 -	val_accuracy:	0.9747
	462/1500 []	- 0)s :	3ms/step	- loss	: 0.0529	- accuracy:	0.9832	val_loss:	0.0699 -	val_accuracy:	0.9747
	463/1500			Ome /eton	1000	. 0 0530		0.0022	wal lass.	0.000		0.0747
	[========] 464/1500	- 0	75 4	ılıs/step	- 1055	. 0.0529	- accuracy:	0.9632	· vai_1055:	0.0096 -	vai_accuracy:	0.9747
	[]	- 0)s 3	3ms/step	- loss	: 0.0529	- accuracy:	0.9832	val_loss:	0.0698 -	val_accuracy:	0.9747
	465/1500 []	- 0)s :	3ms/step	- loss	: 0.0528	- accuracy:	0.9832	- val_loss:	0.0699 -	val_accuracy:	0.9747
	466/1500	_		2 / - t		. 0 0520		0.0022		0.0500		0 0747
	[========] 467/1500	- 0	15 :	sms/step	- 1055	: 0.0529	- accuracy:	0.9823	· vai_ioss:	0.0698 -	vai_accuracy:	0.9747
75/75	[]	- 0)s 3	3ms/step	- loss	: 0.0528	- accuracy:	0.9832	val_loss:	0.0698 -	val_accuracy:	0.9747
	468/1500 []	- 0)s 2	2ms/step	- loss	: 0.0528	- accuracy:	0.9832	- val_loss:	0.0698 -	val_accuracy:	0.9747
Epoch	469/1500											
	[=====================================	- 0	15 :	sms/step	- 1055	: 0.0528	- accuracy:	0.9832	· vai_ioss:	0.0699 -	vai_accuracy:	0.9747
	[]	- 0)s 2	2ms/step	- loss	: 0.0528	- accuracy:	0.9823	val_loss:	0.0698 -	val_accuracy:	0.9747
	471/1500 [========]	- 0)s 2	2ms/step	- loss	: 0.0527	- accuracy:	0.9832	- val_loss:	0.0698 -	val_accuracy:	0.9747
	472/1500						-		-			
	[========] 473/1500	- 0	1S :	3ms/step	- 1oss	: 0.052/	- accuracy:	0.9827	· val_loss:	0.0697 -	val_accuracy:	0.9/4/
	[]	- 0)s 3	3ms/step	- loss	: 0.0527	- accuracy:	0.9832	val_loss:	0.0697 -	val_accuracy:	0.9747
	474/1500 []	- 0)s :	3ms/step	- loss	: 0.0527	- accuracy:	0.9832 -	- val loss:	0.0697 -	val accuracy:	0.9747
Epoch	475/1500											
	[========] 476/1500	- 0	15 :	sms/step	- 1055	: 0.0526	- accuracy:	0.9827	· vai_ioss:	0.0697 -	vai_accuracy:	0.9747
	[]	- 0)s 2	2ms/step	- loss	: 0.0526	- accuracy:	0.9827	val_loss:	0.0696 -	val_accuracy:	0.9747
	477/1500 []	- 0)s :	3ms/step	- loss	: 0.0526	- accuracy:	0.9836	val_loss:	0.0696 -	val_accuracy:	0.9747
	478/1500	_		2 / - t		. 0 0525		0.0027		0.0505		0 0747
	[=====================================	- 0	15 :	sms/step	- 1055	: 0.0526	- accuracy:	0.9827	· vai_ioss:	0.0696 -	vai_accuracy:	0.9747
	[]	- 0)s :	3ms/step	- loss	: 0.0526	- accuracy:	0.9827	val_loss:	0.0695 -	val_accuracy:	0.9747
	480/1500 []	- 0)s :	3ms/step	- loss	: 0.0526	- accuracy:	0.9832	- val_loss:	0.0695 -	val_accuracy:	0.9747
Epoch	481/1500											
	[=======] 482/1500	- 0	75 :	siis/step	- 1055	. 0.0525	- accuracy:	0.9632	· vai_1055:	0.0095 -	vai_accuracy:	0.9747
	[=======] 483/1500	- 0)s 2	2ms/step	- loss	: 0.0524	- accuracy:	0.9827	val_loss:	0.0695 -	val_accuracy:	0.9747
75/75	[]	- 0)s :	3ms/step	- loss	: 0.0524	- accuracy:	0.9836	val_loss:	0.0694 -	val_accuracy:	0.9747
	484/1500 [=======]	0	ac -	2ms/ston	1000	. 0 0524	accupacy	a 0022	val loce:	0 0605	val_accuracy:	0 0747
Epoch	485/1500											
	[======] 486/1500	- 0)s 2	2ms/step	- loss	: 0.0524	- accuracy:	0.9836	· val_loss:	0.0695 -	val_accuracy:	0.9747
75/75	[]	- 0)s :	3ms/step	- loss	: 0.0524	- accuracy:	0.9832	val_loss:	0.0695 -	val_accuracy:	0.9760
	487/1500 []	- a) s	3ms/sten	- 1nss	. 0 0524	- accuracy:	0 9836	val loss.	0 0699 -	val accuracy:	0 9760
Epoch	488/1500											
	[========] 489/1500	- 0)s 2	2ms/step	- loss	: 0.0524	- accuracy:	0.9832	· val_loss:	0.0697 -	val_accuracy:	0.9760
75/75	[]	- 0)s 2	2ms/step	- loss	: 0.0523	- accuracy:	0.9836	val_loss:	0.0697 -	val_accuracy:	0.9760
	490/1500	- 0) < :	3ms/sten	- 1055	: 0.0523	- accuracy:	0.9832	val loss:	0.0697 -	val accuracy:	0.9760
Epoch	491/1500						,		_			
	[========] 492/1500	- 0)s :	3ms/step	- loss	: 0.0523	- accuracy:	0.9827	· val_loss:	0.0696 -	val_accuracy:	0.9760
75/75	[]	- 0)s 3	3ms/step	- loss	: 0.0522	- accuracy:	0.9836	val_loss:	0.0699 -	val_accuracy:	0.9760
	493/1500 []	- 0)s 2	2ms/step	- loss	: 0.0522	- accuracy:	0.9827	- val loss:	0.0698 -	val accuracy:	0.9760
Epoch	494/1500											
	[=====================================	- 0	1S :	3ms/step	- 1oss	: 0.0522	- accuracy:	0.9832	· val_loss:	0.0697 -	val_accuracy:	0.9760
75/75	[]	- 0)s 3	3ms/step	- loss	: 0.0522	- accuracy:	0.9836	val_loss:	0.0697 -	val_accuracy:	0.9760
	496/1500 [=======]	- 0)s 3	3ms/step	- loss	: 0.0522	- accuracy:	0.9832	- val loss:	0.0696 -	val accuracy:	0.9760
Epoch	497/1500						-		_			
	[========] 498/1500	- 0)s :	3ms/step	- loss	: 0.0521	- accuracy:	0.9832 -	· val_loss:	0.0695 -	val_accuracy:	0.9760
75/75	[]	- 0	s 3	3ms/step	- loss	: 0.0521	- accuracy:	0.9836	val_loss:	0.0694 -	val_accuracy:	0.9760
	499/1500 [========]	- 0)s :	3ms/step	- loss	: 0.0521	- accuracy:	0.9836	- val loss:	0.0694 -	val accuracy:	0.9760
Epoch	500/1500						-		_			
	[========] 501/1500	- 0	7S 3	oms/step	- 10SS	. 0.0520	- accuracy:	v.9836 -	- val_loss:	v.v694 -	vai_accuracy:	0.9/60
75/75	[]	- 0)s :	3ms/step	- loss	: 0.0521	- accuracy:	0.9832	val_loss:	0.0694 -	val_accuracy:	0.9760
	502/1500 []	- 0	s :	3ms/step	- loss	: 0.0520	- accuracv:	0.9823	- val_loss:	0.0693 -	val_accuracv:	0.9747
Epoch	503/1500						-		_			
	[========] 504/1500	- 0	os 3	sms/step	- loss	: 0.0520	- accuracy:	U.9836 -	- val_loss:	U.0693 -	val_accuracy:	0.9760
75/75	[]	- 0	s e	5ms/step	- loss	: 0.0520	- accuracy:	0.9836	val_loss:	0.0694 -	val_accuracy:	0.9760
	505/1500 []	- 0)s 4	4ms/step	- loss	: 0.0519	- accuracy:	0.9836	· val loss:	0.0692 -	val_accuracv:	0.9760
Epoch	506/1500											
	[========] 507/1500	- 0	15 4	ıms/step	- loss	: 0.0519	- accuracy:	0.9832	· val_loss:	0.0690 -	val_accuracy:	0.9747
75/75	[]	- 0)s 4	4ms/step	- loss	: 0.0520	- accuracy:	0.9832	val_loss:	0.0691 -	val_accuracy:	0.9760
	508/1500 []	- A)s 4	4ms/sten	- loss	: 0.0519	- accuracy:	0.9827 -	· val loss:	0.0692 -	val accuracy:	0.9760
Epoch	509/1500											
	[=======] 510/1500	- 0	15 4	łms/step	- loss	: 0.0519	- accuracy:	0.9836	· val_loss:	0.0692 -	val_accuracy:	0.9760
75/75	[]	- 0)s !	5ms/step	- loss	: 0.0518	- accuracy:	0.9832	val_loss:	0.0692 -	val_accuracy:	0.9760
	511/1500 [========]	- A)s ¹	5ms/sten	- loss	: 0.0518	- accuracy:	0.9832	· val loss:	0.0692 -	val accuracy:	0.9760
Epoch	512/1500						-		_			
75/75	[======]	- 0)s 4	lms/step	- loss	: 0.0518	- accuracy:	0.9836	val_loss:	0.0692 -	val_accuracy:	0.9760

Epoch	513/1500										
	[]	-	0s	4ms/step -	loss:	0.0518 - accurac	y: 0.9832	<pre>- val_loss:</pre>	0.0692 -	val_accuracy:	0.9760
	514/1500	_	0s	6ms/step -	- loss:	0.0518 - accurac	v: 0.9836	- val loss:	0.0692 -	val accuracy:	0.9760
Epoch	515/1500										
	[========] 516/1500	-	0s	5ms/step -	- loss:	0.0517 - accurac	y: 0.9832	- val_loss:	0.0692 -	val_accuracy:	0.9760
75/75	[]	-	0s	6ms/step -	loss:	0.0518 - accurac	y: 0.9836	- val_loss:	0.0692 -	val_accuracy:	0.9760
	517/1500	_	0s	3ms/sten -	- loss:	0.0517 - accuracy	v: 0.9836	- val loss:	0.0692 -	val accuracy:	0.9760
Epoch	518/1500										
	[=========] 519/1500	-	0s	3ms/step -	- loss:	0.0517 - accurac	y: 0.9832	- val_loss:	0.0693 -	val_accuracy:	0.9760
	[]	-	0s	3ms/step -	loss:	0.0517 - accurac	y: 0.9836	- val_loss:	0.0692 -	val_accuracy:	0.9760
	520/1500		0.0	2ms/shon	10001	0.0517	0 0022	wal lass.	0.000		0.0760
	[========] 521/1500	-	85	oms/step -	- 1055;	0.0517 - accurac	7: 0.9632	- vai_1055:	0.0092 -	vai_accuracy:	0.9760
	[======]	-	0s	3ms/step -	loss:	0.0516 - accurac	y: 0.9836	<pre>- val_loss:</pre>	0.0692 -	val_accuracy:	0.9760
	522/1500 []	_	0s	3ms/step -	- loss:	0.0516 - accuracy	y: 0.9836	- val_loss:	0.0692 -	val_accuracy:	0.9760
Epoch	523/1500										
	[=======] 524/1500	-	05	sms/step -	- 1055:	0.0516 - accurac	/: 0.9836	- vai_ioss:	0.0692 -	vai_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0516 - accurac	y: 0.9836	- val_loss:	0.0692 -	val_accuracy:	0.9760
	525/1500 []	_	0s	3ms/sten -	- loss:	0.0516 - accurac	v: 0.9836	- val loss:	0.0693 -	val accuracy:	0.9760
Epoch	526/1500										
	[========] 527/1500	-	0s	2ms/step -	- loss:	0.0516 - accurac	y: 0.9836	- val_loss:	0.0692 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0515 - accurac	y: 0.9836	- val_loss:	0.0692 -	val_accuracy:	0.9760
	528/1500 [=======]	_	۵c	3ms/sten	. 1000	0 0515 - accurac	· 0 9836	- val loss:	0 0691 -	val accuracy:	0 9760
Epoch	529/1500							_			
	[======]	-	0s	3ms/step -	loss:	0.0514 - accurac	y: 0.9832	<pre>- val_loss:</pre>	0.0691 -	val_accuracy:	0.9760
	530/1500	_	0s	3ms/step -	loss:	0.0514 - accurac	v: 0.9836	- val loss:	0.0692 -	val accuracy:	0.9760
	531/1500		٥-	2	1	0.0514			0.000		0.0760
	[========] 532/1500	-	05	zms/step -	- 1055:	0.0514 - accurac	/: 0.9832	- vai_ioss:	0.0690 -	vai_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0514 - accurac	y: 0.9836	<pre>- val_loss:</pre>	0.0691 -	val_accuracy:	0.9760
	533/1500	_	0s	3ms/step -	- loss:	0.0513 - accurac	v: 0.9827	- val loss:	0.0692 -	val accuracy:	0.9760
Epoch	534/1500										
	[=========] 535/1500	-	0s	3ms/step -	- loss:	0.0513 - accurac	y: 0.9836	- val_loss:	0.0692 -	val_accuracy:	0.9760
	[======]	-	0s	3ms/step -	loss:	0.0513 - accurac	y: 0.9836	- val_loss:	0.0692 -	val_accuracy:	0.9760
	536/1500	_	۵s	3ms/sten -	- loss:	0 0513 - accuracy	. a 9836	- val loss:	a a692 -	val accuracy:	0 9760
Epoch	537/1500										
	[========] 538/1500	-	0s	3ms/step -	loss:	0.0513 - accurac	y: 0.9832	- val_loss:	0.0691 -	val_accuracy:	0.9760
	[======]	-	0s	3ms/step -	loss:	0.0512 - accurac	y: 0.9836	- val_loss:	0.0690 -	val_accuracy:	0.9760
	539/1500		Q.c	2mc/cton	locci	0 0E12 200Up20	a aose	val loss:	0 0601	val accumacy:	0.0760
	540/1500	-	85	oms/step -	- 1055;	0.0512 - accurac	7: 0.9630	- vai_1055:	0.0091 -	vai_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0512 - accurac	y: 0.9836	<pre>- val_loss:</pre>	0.0691 -	val_accuracy:	0.9760
	541/1500 []	_	0s	3ms/step -	- loss:	0.0512 - accuracy	y: 0.9840	- val_loss:	0.0691 -	val_accuracy:	0.9760
Epoch	542/1500										
	[=========] 543/1500	-	0s	3ms/step -	- loss:	0.0512 - accurac	y: 0.9836	- val_loss:	0.0691 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0511 - accurac	y: 0.9832	- val_loss:	0.0690 -	val_accuracy:	0.9760
	544/1500 []	_	0s	3ms/sten -	- loss:	0.0511 - accurac	v: 0.9836	- val loss:	0.0691 -	val accuracy:	0.9760
Epoch	545/1500										
	[========] 546/1500	-	0s	3ms/step -	- loss:	0.0511 - accurac	y: 0.9836	- val_loss:	0.0691 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0511 - accurac	y: 0.9832	- val_loss:	0.0690 -	val_accuracy:	0.9760
	547/1500 []	_	۵s	3ms/sten -	- loss:	0 0511 - accuracy	· 0 9836	- val loss:	a a691 -	val accuracy:	0 9760
Epoch	548/1500										
75/75 Enoch	[=========] 549/1500	-	0s	3ms/step -	loss:	0.0510 - accurac	y: 0.9836	- val_loss:	0.0690 -	val_accuracy:	0.9760
	[======]	-	0s	3ms/step -	loss:	0.0510 - accurac	y: 0.9832	- val_loss:	0.0690 -	val_accuracy:	0.9760
	550/1500 []	_	۵c	3ms/sten	. 1000	0 0510 - accurac	· 0 9836	- val loss:	0 0690 -	val accuracy:	0 9760
Epoch	551/1500										
	[========] 552/1500	-	0s	2ms/step -	loss:	0.0510 - accurac	y: 0.9832	- val_loss:	0.0690 -	val_accuracy:	0.9760
	[]	-	0s	3ms/step -	loss:	0.0509 - accurac	y: 0.9836	- val_loss:	0.0691 -	val_accuracy:	0.9760
	553/1500 []		Q.c	2mc/cton	locci	0 0E00 200Up20	a aeee	val loss:	0 0600	val accumacy:	0.0760
	554/1500	-	85	oms/step -	- 1055;	0.0309 - accurac	7: 0.9632	- Val_1055:	0.0090 -	vai_accuracy:	0.9760
	[]	-	0s	3ms/step -	loss:	0.0509 - accurac	y: 0.9836	<pre>- val_loss:</pre>	0.0690 -	val_accuracy:	0.9760
	555/1500 [=======]	_	0s	3ms/step -	- loss:	0.0509 - accuracy	y: 0.9832	- val_loss:	0.0690 -	val_accuracy:	0.9760
	556/1500										
	[========] 557/1500	-	ØS.	3ms/step -	- loss:	0.0509 - accurac	y: 0.9836	- val_loss:	0.0690 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0509 - accurac	y: 0.9832	- val_loss:	0.0689 -	val_accuracy:	0.9760
	558/1500 []	_	0s	3ms/step -	- loss:	0.0508 - accurac	v: 0.9832	- val loss:	0.0690 -	val accuracy:	0.9760
Epoch	559/1500										
	[=======] 560/1500	-	0s	3ms/step -	- loss:	0.0508 - accurac	y: 0.9832	- val_loss:	0.0689 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0508 - accurac	y: 0.9836	- val_loss:	0.0689 -	val_accuracy:	0.9760
	561/1500 []	_	۵c	3ms/sten	. 1000	0 0508 - accurac	· 0 9836	- val loss:	0 0689 -	val accuracy:	0 9760
	562/1500	-	03	oms/scep -	1055.	0.0308 - accurac	y. 0.9830	- vai_1055.	0.0009 -	vai_accuracy.	0.5700
	[======]	-	0s	3ms/step -	loss:	0.0508 - accurac	y: 0.9832	<pre>- val_loss:</pre>	0.0689 -	val_accuracy:	0.9760
	563/1500 []	-	0s	4ms/step -	loss:	0.0507 - accuracy	y: 0.9836	- val_loss:	0.0689 -	val_accuracy:	0.9760
Epoch	564/1500										
	[========] 565/1500	-	ØS.	4ms/step -	- loss:	0.050/ - accurac	y: 0.9836	- val_loss:	0.0688 -	val_accuracy:	0.9760
75/75	[]	-	0s	4ms/step -	loss:	0.0506 - accurac	y: 0.9832	- val_loss:	0.0686 -	val_accuracy:	0.9760
	566/1500 []	_	0<	4ms/sten	- 1055	0.0506 - accuracy	v: 0.9836	- val loss:	0.0687 -	val accuracy:	0.9769
Epoch	567/1500										
	[======] 568/1500	-	0s	4ms/step -	loss:	0.0506 - accurac	y: 0.9836	- val_loss:	0.0687 -	val_accuracy:	0.9760
75/75	[]	-	0s	4ms/step -	loss:	0.0505 - accurac	y: 0.9836	- val_loss:	0.0688 -	val_accuracy:	0.9760
Epoch	569/1500							_			
	[========] 570/1500	-	U S	-ms/step -	1022:	- accurac	,. v.9832	- A9T_TO22:	υ.υοδ9 -	vai_accuracy:	0.7/60
75/75	[=======]	-	0s	4ms/step -	loss:	0.0504 - accurac	y: 0.9836	- val_loss:	0.0688 -	val_accuracy:	0.9760
	571/1500 []	_	05	4ms/sten -	· loss:	0.0504 - accurac	v: 0.9836	- val loss:	0.0686 -	val accuracy:	0.9747
75/75	572/1500										
Epoch		-	0s	4ms/step -	loss:	0.0504 - accuracy	y: 0.9827	- val_loss:	0.0687 -	val_accuracy:	0.9747
Epoch 75/75	[=======] 573/1500										
Epoch 75/75 Epoch	[] 573/1500 []	-	0s	4ms/step -	loss:	0.0503 - accurac	/: 0.9836	val_loss:	0.0688 -	val_accuracy:	0.9/4/
Epoch 75/75 Epoch 75/75 Epoch	573/1500 [] 574/1500										
Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	573/1500 [] 574/1500 [] 575/1500	-	0s	4ms/step -	- loss:	0.0503 - accurac	y: 0.9827	- val_loss:	0.0688 -	val_accuracy:	0.9747
Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	573/1500 [] 574/1500 [] 575/1500 []	-	0s	4ms/step -	- loss:	0.0503 - accurac	y: 0.9827	- val_loss:	0.0688 -	val_accuracy:	0.9747
Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	573/1500 [] 574/1500 [] 575/1500	-	0s 0s	4ms/step -	loss:	0.0503 - accuracy	y: 0.9827 y: 0.9840	- val_loss:	0.0688 - 0.0688 -	<pre>val_accuracy: val_accuracy:</pre>	0.9747 0.9747

	577/1500 []	- 6	ðs -	4ms/step	- :	loss:	0.0502 -	- a	accuracy:	0.9836	- va	al_loss:	0.0689	· val_accuracy:	0.9735
	578/1500 []	- 6	ðs.	3ms/step	- :	loss:	0.0502 -	- a	accuracy:	0.9836	- va	al loss:	0.0689 -	· val accuracv:	0.9735
Epoch	579/1500														
	[=======] 580/1500	- 6	1S	3ms/step	-	loss:	0.0501 -	- a	accuracy:	0.9840	- va	al_loss:	0.0688 -	· val_accuracy:	0.9735
	[=======] 581/1500	- 6	ðs.	3ms/step	- :	loss:	0.0501 -	- â	accuracy:	0.9840	- va	al_loss:	0.0688 -	· val_accuracy:	0.9735
75/75	[]	- 6	ðs	3ms/step	- :	loss:	0.0501 -	- a	accuracy:	0.9832	- va	al_loss:	0.0688	val_accuracy:	0.9735
75/75	582/1500 []	- 6	ðs -	4ms/step	- :	loss:	0.0500 -	- a	accuracy:	0.9836	- va	al_loss:	0.0688	val_accuracy:	0.9735
	583/1500 []	- 6	ðs.	3ms/step	_ :	loss:	0.0500 -	- a	accuracy:	0.9827	- va	al loss:	0.0687 -	· val accuracy:	0.9735
Epoch	584/1500														
Epoch	[=======] 585/1500														
	[=======] 586/1500	- 6	ðs.	3ms/step	- :	loss:	0.0500 -	- â	accuracy:	0.9840	- va	al_loss:	0.0688	· val_accuracy:	0.9735
	[======] 587/1500	- 6	ðs.	3ms/step	- :	loss:	0.0499 -	- a	accuracy:	0.9836	- va	al_loss:	0.0688 -	val_accuracy:	0.9735
75/75	[]	- 6	ðs	3ms/step	- :	loss:	0.0499 -	- a	accuracy:	0.9832	- va	al_loss:	0.0687 -	val_accuracy:	0.9735
	588/1500 []	- 6	ðs.	3ms/step	_ ;	loss:	0.0499 -	- a	accuracy:	0.9836	- va	al_loss:	0.0688	· val_accuracy:	0.9735
	589/1500 []	- 6	36	3ms/sten		loss.	а адаа -	- 2	accuracy:	a 9836	- va	al loss.	a a688 -	val accuracy:	0 9735
Epoch	590/1500														
	[=======] 591/1500	- 6	1S	2ms/step		loss:	0.0499 -	- a	accuracy:	0.9832	- va	a1_10ss:	0.0688 -	· val_accuracy:	0.9/35
	[======] 592/1500	- 6	ðs.	3ms/step	- :	loss:	0.0498 -	- a	accuracy:	0.9832	- va	al_loss:	0.0688	val_accuracy:	0.9735
75/75	[]	- 6	ðs.	3ms/step	- :	loss:	0.0498 -	- a	accuracy:	0.9832	- va	al_loss:	0.0688	val_accuracy:	0.9735
	593/1500 []	- 6	ðs.	3ms/step	- :	loss:	0.0498 -	- a	accuracy:	0.9836	- va	al_loss:	0.0688	val_accuracy:	0.9735
	594/1500 [=======]	- 6	ðs.	3ms/step	_ :	loss:	0.0497 -	- a	accuracy:	0.9832	- va	al loss:	0.0687 -	· val accuracv:	0.9735
Epoch	595/1500 [======]								-			_			
Epoch	596/1500								-			_			
	[=======] 597/1500	- 6	ðs.	3ms/step	- :	loss:	0.0497 -	- a	accuracy:	0.9836	- va	al_loss:	0.0687 -	· val_accuracy:	0.9735
75/75	[=======] 598/1500	- 6	ðs.	3ms/step	- :	loss:	0.0496 -	- â	accuracy:	0.9836	- va	al_loss:	0.0687	· val_accuracy:	0.9735
75/75	[]	- 6	ðs	3ms/step	- :	loss:	0.0497 -	- a	accuracy:	0.9836	- va	al_loss:	0.0688	val_accuracy:	0.9735
	599/1500 []	- 6	ðs.	3ms/step	_ :	loss:	0.0496 -	- a	accuracy:	0.9832	- va	al_loss:	0.0688 -	· val_accuracy:	0.9735
Epoch	600/1500 []														
Epoch	601/1500														
	[=======] 602/1500	- 6	ðs	3ms/step		loss:	0.0496 -	- ĉ	accuracy:	0.9836	- va	al_loss:	0.0688	· val_accuracy:	0.9735
	[======] 603/1500	- 6	ðs.	2ms/step	- :	loss:	0.0495 -	- â	accuracy:	0.9836	- va	al_loss:	0.0687 -	val_accuracy:	0.9735
75/75	[]	- 6	ðs.	3ms/step	- :	loss:	0.0495 -	- a	accuracy:	0.9827	- va	al_loss:	0.0686	val_accuracy:	0.9747
	604/1500 [========]	- 6	ðs.	3ms/step	- :	loss:	0.0495 -	- a	accuracy:	0.9836	- va	al_loss:	0.0688	val_accuracy:	0.9735
	605/1500 []	- 6	ðs.	3ms/step	_ :	loss:	0.0495 -	- a	accuracy:	0.9832	- va	al loss:	0.0687 -	· val accuracv:	0.9735
Epoch	606/1500														
Epoch	[=======] 607/1500														
	[=======] 608/1500	- 6	ðs.	3ms/step	- :	loss:	0.0495 -	- a	accuracy:	0.9836	- va	al_loss:	0.0687 -	· val_accuracy:	0.9735
75/75	[=====================================	- 6	ðs	3ms/step	- :	loss:	0.0495 -	- a	accuracy:	0.9832	- va	al_loss:	0.0687 -	val_accuracy:	0.9735
75/75	[]	- 6	ðs	3ms/step	- :	loss:	0.0494 -	- a	accuracy:	0.9836	- va	al_loss:	0.0687	val_accuracy:	0.9747
	610/1500 []	- 6	ðs.	3ms/step	_ ;	loss:	0.0494 -	- a	accuracy:	0.9832	- va	al_loss:	0.0686	· val_accuracy:	0.9747
	611/1500 []	- 6	35	3ms/sten		loss:	0.0493 -	- 2	accuracy:	0.9832	- va	al loss:	0.0688	· val accuracy:	0.9735
Epoch	612/1500														
Epoch	[======] 613/1500								,			_		· val_accuracy:	
	[======] 614/1500	- 6	ðs.	3ms/step	- :	loss:	0.0493 -	- a	accuracy:	0.9832	- va	al_loss:	0.0688 -	· val_accuracy:	0.9735
75/75	[=====================================	- 6	ðs	3ms/step	- :	loss:	0.0493 -	- a	accuracy:	0.9836	- va	al_loss:	0.0687 -	val_accuracy:	0.9735
75/75	[]	- 6	ðs	3ms/step	- :	loss:	0.0492 -	- a	accuracy:	0.9836	- va	al_loss:	0.0687	val_accuracy:	0.9747
	616/1500 []	- 6	ðs.	3ms/step	_ :	loss:	0.0492 -	- a	accuracy:	0.9836	- va	al loss:	0.0687 -	· val accuracy:	0.9747
Epoch	617/1500 []														
Epoch	618/1500														
	[=======] 619/1500	- 6	ðs.	3ms/step	- :	loss:	0.0491 -	- a	accuracy:	0.9832	- va	al_loss:	0.0685 -	· val_accuracy:	0.9747
	[=======] 620/1500	- 6	ðs.	3ms/step	- :	loss:	0.0492 -	- â	accuracy:	0.9832	- va	al_loss:	0.0686	· val_accuracy:	0.9747
75/75	[]	- 6	ðs.	3ms/step	- :	loss:	0.0491 -	- a	accuracy:	0.9832	- va	al_loss:	0.0685	val_accuracy:	0.9747
	621/1500 []	- 6	ðs.	3ms/step	- :	loss:	0.0491 -	- a	accuracy:	0.9836	- va	al_loss:	0.0685 -	· val_accuracy:	0.9747
	622/1500 [======]	- 6	26	3ms/sten		loss.	a a491 -	- 2	accuracy:	a 9832	- va	al loss.	0 0686 -	val accuracy:	0 9747
Epoch	623/1500								-			_			
	[========] 624/1500	- 6	1S	5ms/step		loss:	0.0491 -	- a	accuracy:	0.9832	- va	a1_10ss:	0.0686 -	· val_accuracy:	0.9/4/
	[======] 625/1500	- 6	ðs ·	4ms/step	- :	loss:	0.0490 -	- a	accuracy:	0.9836	- va	al_loss:	0.0686 -	val_accuracy:	0.9747
75/75	[]	- 6	ðs -	4ms/step	- :	loss:	0.0490 -	- a	accuracy:	0.9836	- va	al_loss:	0.0686 -	val_accuracy:	0.9747
	626/1500 []	- 6	ðs -	4ms/step	- :	loss:	0.0490 -	- a	accuracy:	0.9832	- va	al_loss:	0.0686	· val_accuracy:	0.9747
	627/1500 []	- 6	35	4ms/sten		loss:	0.0490 -	- 2	accuracy:	0.9836	- va	al loss:	0.0686	· val accuracy:	0.9747
Epoch	628/1500														
	[=======] 629/1500	- 6	ðs	3ms/step		loss:	0.0489 -	- ĉ	accuracy:	0.9836	- va	al_loss:	0.0686	· val_accuracy:	0.9747
	[======] 630/1500	- 6	ðs -	4ms/step	- :	loss:	0.0489 -	- â	accuracy:	0.9832	- va	al_loss:	0.0686 -	val_accuracy:	0.9747
75/75	[]	- 6	ðs	5ms/step	- :	loss:	0.0489 -	- a	accuracy:	0.9840	- va	al_loss:	0.0685 -	val_accuracy:	0.9747
75/75	631/1500 []	- 6	ðs -	4ms/step	- :	loss:	0.0489 -	- a	accuracy:	0.9827	- va	al_loss:	0.0684	val_accuracy:	0.9747
Epoch	632/1500 []														
Epoch	633/1500														
Epoch	[=======] 634/1500														
75/75	[=======] 635/1500	- 6	ðs -	4ms/step	- :	loss:	0.0488 -	- a	accuracy:	0.9836	- va	al_loss:	0.0684	val_accuracy:	0.9747
75/75	[]	- 6	ðs -	4ms/step	- :	loss:	0.0487 -	- a	accuracy:	0.9827	- va	al_loss:	0.0684	val_accuracy:	0.9747
75/75	636/1500 [======]	- 6	ðs -	4ms/step	- :	loss:	0.0487 -	- a	accuracy:	0.9832	- va	al_loss:	0.0684	val_accuracy:	0.9747
	637/1500 []	- 6	ðs -	4ms/step		loss:	0.0487 -	- 2	accuracy:	0.9832	- va	al_loss:	0.0684	· val_accuracv:	0.9747
Epoch	638/1500														
Epoch	[======] 639/1500														
	[======] 640/1500	- 6	ðs	3ms/step	- :	loss:	0.0487 -	- â	accuracy:	0.9827	- va	al_loss:	0.0685 -	· val_accuracy:	0.9747
	[======]	- 6	ðs.	3ms/step	- :	loss:	0.0486 -	- a	accuracy:	0.9827	- va	al_loss:	0.0683	val_accuracy:	0.9747

	641/1500	- 0	c 3mc/ctor	- loss	0 0487	- accuracy.	0 9836	val loss	0 0683	val accuracy:	0 9747
Epoch	642/1500										
	[======] 643/1500	- 0	s 3ms/step	- loss:	0.0486	- accuracy:	0.9836 -	· val_loss:	0.0684 -	val_accuracy:	0.9747
75/75	[=====================================	- 0	s 3ms/step	- loss:	0.0486	- accuracy:	0.9832 -	val_loss:	0.0684 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0486	- accuracy:	0.9827 -	val_loss:	0.0683 -	val_accuracy:	0.9747
	645/1500 [======]	- 0	s 3ms/step	- loss:	0.0485	- accuracy:	0.9836 -	val_loss:	0.0684 -	val_accuracy:	0.9747
	646/1500 [======]	- 0	s 3ms/sten	- loss:	0.0485	- accuracy:	0.9827 -	· val loss:	0.0684 -	val accuracy:	0.9747
Epoch	647/1500										
	[=======] 648/1500	- 0	s 3ms/step	- loss:	0.0485	- accuracy:	0.9840 -	· val_loss:	0.0684 -	val_accuracy:	0.9/4/
75/75	[======] 649/1500	- 0	s 3ms/step	- loss:	0.0485	accuracy:	0.9827 -	val_loss:	0.0684 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0484	- accuracy:	0.9836 -	val_loss:	0.0685 -	val_accuracy:	0.9747
	650/1500 [=======]	- 0	s 3ms/step	- loss:	0.0484	- accuracy:	0.9832 -	val_loss:	0.0683 -	val_accuracy:	0.9747
	651/1500 [======]	- 0	s 3ms/step	- loss:	0.0484	- accuracy:	0.9836 -	- val loss:	0.0683 -	val accuracy:	0.9747
Epoch	652/1500										
Epoch	[=======] 653/1500					-		_			
	[=======] 654/1500	- 0	s 3ms/step	- loss:	0.0484	- accuracy:	0.9836 -	· val_loss:	0.0683 -	val_accuracy:	0.9747
75/75	[======] 655/1500	- 0	s 3ms/step	- loss:	0.0483	- accuracy:	0.9840 -	val_loss:	0.0682 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0483	- accuracy:	0.9832 -	val_loss:	0.0683 -	val_accuracy:	0.9747
	656/1500 [======]	- 0	s 3ms/sten	- loss:	0.0483	- accuracy:	0.9832 -	val loss:	0.0683 -	val accuracy:	0.9747
Epoch	657/1500										
Epoch	[======] 658/1500										
	[======] 659/1500	- 0	s 3ms/step	- loss:	0.0483	- accuracy:	0.9836 -	· val_loss:	0.0682 -	val_accuracy:	0.9747
75/75	[]	- 0	s 2ms/step	- loss:	0.0482	- accuracy:	0.9836 -	val_loss:	0.0681 -	val_accuracy:	0.9747
75/75	660/1500 []	- 0	s 3ms/step	- loss:	0.0482	- accuracy:	0.9836 -	val_loss:	0.0681 -	val_accuracy:	0.9747
	661/1500 [======]	- 0	s 3ms/sten	- loss:	0.0482	- accuracy:	0.9832 -	val loss:	0.0682 -	val accuracy:	0.9747
Epoch	662/1500										
Epoch	[======] 663/1500										
	[=======] 664/1500	- 0	s 3ms/step	- loss:	0.0481	- accuracy:	0.9832 -	· val_loss:	0.0684 -	val_accuracy:	0.9735
75/75	[]	- 0	s 3ms/step	- loss:	0.0481	- accuracy:	0.9836 -	val_loss:	0.0682 -	val_accuracy:	0.9747
	665/1500 []	- 0	s 3ms/step	- loss:	0.0481	- accuracy:	0.9836 -	val_loss:	0.0683 -	val_accuracy:	0.9747
	666/1500 [======]	- 0	s 3ms/step	- loss:	0.0481	- accuracy:	0.9827 -	- val loss:	0.0682 -	val accuracy:	0.9747
Epoch	667/1500										
Epoch	[======] 668/1500										
	[======] 669/1500	- 0	s 3ms/step	- loss:	0.0480	- accuracy:	0.9832 -	· val_loss:	0.0681 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0480	- accuracy:	0.9832 -	val_loss:	0.0681 -	val_accuracy:	0.9747
75/75	670/1500 [======]	- 0	s 3ms/step	- loss:	0.0480	- accuracy:	0.9832 -	- val_loss:	0.0681 -	val_accuracy:	0.9735
	671/1500 []	- 0	s 3ms/sten	- loss:	0.0480	- accuracy:	0.9832 -	val loss:	0.0680 -	val accuracy:	0.9747
Epoch	672/1500					-		_			
Epoch	[=======] 673/1500										
	[=====================================	- 0	s 3ms/step	- loss:	0.0479	- accuracy:	0.9832 -	· val_loss:	0.0679 -	val_accuracy:	0.9747
	[=====================================	- 0	s 3ms/step	- loss:	0.0478	- accuracy:	0.9840 -	val_loss:	0.0680 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0479	- accuracy:	0.9832 -	val_loss:	0.0679 -	val_accuracy:	0.9747
	676/1500 [======]	- 0	s 3ms/step	- loss:	0.0479	- accuracy:	0.9832 -	- val_loss:	0.0680 -	val_accuracy:	0.9747
	677/1500 [======]	- 0	s 3ms/star	- 1000	0 0178	accuracy.	0 0832 -	- val loss:	0 0680 -	val accuracy:	0 9747
Epoch	678/1500					,		_		_ ′	
	[======] 679/1500	- 0	s 3ms/step	- loss:	0.0478	- accuracy:	0.9836 -	· val_loss:	0.0679 -	val_accuracy:	0.9747
	[======] 680/1500	- 0	s 2ms/step	- loss:	0.0478	accuracy:	0.9836 -	val_loss:	0.0680 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0478	- accuracy:	0.9836 -	val_loss:	0.0680 -	val_accuracy:	0.9747
	681/1500 []	- 0	s 2ms/step	- loss:	0.0478	- accuracy:	0.9836 -	- val_loss:	0.0680 -	val_accuracy:	0.9747
Epoch	682/1500 []										
Epoch	683/1500										
	[=======] 684/1500	- 0	s 4ms/step	- loss:	0.0477	- accuracy:	0.9848 -	· val_loss:	0.0680 -	val_accuracy:	0.9747
	[======] 685/1500	- 0	s 4ms/step	- loss:	0.0477	accuracy:	0.9832 -	val_loss:	0.0679 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0477	- accuracy:	0.9836 -	val_loss:	0.0678 -	val_accuracy:	0.9747
	686/1500 [======]	- 0	s 3ms/step	- loss:	0.0476	- accuracy:	0.9840 -	val_loss:	0.0678 -	val_accuracy:	0.9747
Epoch	687/1500 []					,		_		_ ′	
Epoch	688/1500										
	[======] 689/1500	- 0	s 3ms/step	- loss:	0.0476	- accuracy:	0.9840 -	· val_loss:	0.0677 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0476	- accuracy:	0.9844 -	val_loss:	0.0677 -	val_accuracy:	0.9747
75/75	690/1500 [======]	- 0	s 3ms/step	- loss:	0.0476	- accuracy:	0.9836 -	val_loss:	0.0677 -	val_accuracy:	0.9747
	691/1500 [======]	- 0	s 5ms/step	- loss:	0.0476	- accuracy:	0.9840 -	- val_loss:	0.0677 -	val_accuracy:	0.9747
	692/1500 []	_ 1	s 7ms/star	- 1000	0 0176	accuracy:	0 9844 -	. val loss:	0 0678 -	val accuracy:	0 9747
Epoch	693/1500					-		_			
	[=======] 694/1500	- 1	s 10ms/ste	p - loss	: 0.0475	- accuracy	: 0.9840	- val_loss	: 0.0678	- val_accuracy	: 0.9747
75/75	[=======] 695/1500	- 1	s 10ms/ste	p - loss	: 0.0476	- accuracy	: 0.9844	- val_loss	: 0.0677	- val_accuracy	: 0.9747
75/75	[]	- 1	s 10ms/ste	p - loss	: 0.0475	- accuracy	: 0.9840	- val_loss	: 0.0678	- val_accuracy	: 0.9747
	696/1500 []	- 0	s 7ms/ster	- loss:	0.0475	- accuracv:	0.9844 -	· val_loss:	0.0677 -	val_accuracv:	0.9747
Epoch	697/1500 [======]										
Epoch	698/1500										
	[======] 699/1500	- 1	s 8ms/step	- loss:	0.0474	- accuracy:	0.9840 -	val_loss:	0.0677 -	val_accuracy:	0.9747
75/75	[======] 700/1500	- 1	s 7ms/step	- loss:	0.0475	- accuracy:	0.9844 -	val_loss:	0.0677 -	val_accuracy:	0.9747
75/75	[]	- 0	s 6ms/step	- loss:	0.0474	- accuracy:	0.9836 -	val_loss:	0.0677 -	val_accuracy:	0.9747
	701/1500 [=======]	- 0	s 5ms/step	- loss:	0.0474	- accuracy:	0.9844 -	val_loss:	0.0677 -	val_accuracy:	0.9747
Epoch	702/1500 [======]										
Epoch	703/1500										
	[=======] 704/1500	- 0	s 6ms/step	- loss:	0.0474	- accuracy:	v.9840 -	- val_loss:	0.0676 -	vai_accuracy:	υ.9747
	[]	- 1	s 7ms/step	- loss:	0.0474	- accuracy:	0.9844 -	val_loss:	0.0676 -	val_accuracy:	0.9747

Enoch	705/1500											
75/75	[]	-	0s	4ms/step	- los	s: 0.0473	- accuracy:	0.9844 -	val_loss:	0.0677 -	val_accuracy:	0.9747
	706/1500 [======]	-	0s	3ms/step	- los	s: 0.0473	- accuracy:	0.9836 -	val_loss:	0.0676 -	val_accuracy:	0.9747
	707/1500 []	_	as	3ms/sten	- los	. 0 0473	- accuracy:	0 9844 -	val loss:	0 0676 -	val accuracy:	a 9747
Epoch	708/1500											
Epoch	[=======] 709/1500						-		_			
	[=======] 710/1500	-	0s	3ms/step	- los	s: 0.0473	- accuracy:	0.9844 -	val_loss:	0.0676 -	val_accuracy:	0.9747
75/75	[]	-	0s	3ms/step	- los	s: 0.0473	- accuracy:	0.9844 -	val_loss:	0.0675 -	val_accuracy:	0.9760
75/75	711/1500 [=======]	-	0s	3ms/step	- los	s: 0.0473	- accuracy:	0.9840 -	val_loss:	0.0675 -	val_accuracy:	0.9747
	712/1500	_	95	3ms/sten	- los	: 0.0472	- accuracy:	0.9844 -	val loss:	0.0676 -	val accuracy:	0.9747
Epoch	713/1500											
	[========] 714/1500	-	05	5ms/step	- 105	5: 0.04/2	- accuracy:	0.9844 -	. vai_1055:	0.00/0 -	vai_accuracy:	0.9747
	[======] 715/1500	-	0s	3ms/step	- los	5: 0.0472	- accuracy:	0.9848 -	val_loss:	0.0676 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step	- los	s: 0.0472	- accuracy:	0.9840 -	val_loss:	0.0676 -	val_accuracy:	0.9760
	716/1500 [=======]	-	0s	3ms/step	- los	s: 0.0472	- accuracy:	0.9836 -	val_loss:	0.0675 -	val_accuracy:	0.9747
	717/1500	_	95	3ms/sten	- los	: 0.0472	- accuracy:	0.9844 -	val loss:	0.0675 -	val accuracy:	0.9747
Epoch	718/1500											
Epoch	[========] 719/1500											
	[======] 720/1500	-	0s	2ms/step	- los	5: 0.0471	- accuracy:	0.9840 -	val_loss:	0.0676 -	val_accuracy:	0.9747
75/75	[]	-	0s	3ms/step	- los	s: 0.0471	- accuracy:	0.9844 -	val_loss:	0.0677 -	val_accuracy:	0.9747
	721/1500 [=======]	-	0s	3ms/step	- los	s: 0.0471	- accuracy:	0.9844 -	val_loss:	0.0676 -	val_accuracy:	0.9747
	722/1500	_	95	3ms/sten	- los	: 0.0471	- accuracy:	0.9844 -	val loss:	0.0676 -	val accuracy:	0.9747
Epoch	723/1500											
	[=======] 724/1500	-	05	3ms/step	- 10S	5: 0.0470	- accuracy:	0.9840 -	· vai_ioss:	0.06/6 -	vai_accuracy:	0.9747
	[=======] 725/1500	-	0s	3ms/step	- los	s: 0.0470	- accuracy:	0.9840 -	val_loss:	0.0675 -	val_accuracy:	0.9747
75/75	[]	-	0s	4ms/step	- los	s: 0.0470	- accuracy:	0.9848 -	val_loss:	0.0675 -	val_accuracy:	0.9747
	726/1500 []	_	0s	3ms/step	- los	s: 0.0470	- accuracv:	0.9844 -	val_loss:	0.0676 -	val_accuracy:	0.9747
Epoch	727/1500											
Epoch	728/1500											
	[========] 729/1500	-	0s	3ms/step	- los	s: 0.0470	- accuracy:	0.9844 -	val_loss:	0.0675 -	val_accuracy:	0.9747
75/75	[]	-	0s	5ms/step	- los	s: 0.0469	- accuracy:	0.9840 -	val_loss:	0.0676 -	val_accuracy:	0.9747
75/75	730/1500 [======]	-	0s	4ms/step	- los	s: 0.0469	- accuracy:	0.9844 -	val_loss:	0.0675 -	val_accuracy:	0.9760
	731/1500 []	_	0s	5ms/step	- los	s: 0.0469	- accuracv:	0.9844 -	val loss:	0.0676 -	val accuracy:	0.9760
Epoch	732/1500											
Epoch	[========] 733/1500						-		_			
	[=======] 734/1500	-	0s	5ms/step	- los	5: 0.0469	- accuracy:	0.9844 -	val_loss:	0.0674 -	val_accuracy:	0.9760
75/75	[]	-	0s	4ms/step	- los	s: 0.0469	- accuracy:	0.9848 -	val_loss:	0.0674 -	val_accuracy:	0.9760
	735/1500	_	0s	4ms/step	- los	s: 0.0468	- accuracy:	0.9848 -	val_loss:	0.0674 -	val_accuracy:	0.9760
	736/1500	_	ac	Ams/stan	- 100	. 0 0/68	- accuracy:	0 9844 -	val loss:	0 0674 -	val accuracy:	0 9760
Epoch	737/1500											
	[========] 738/1500	-	ØS.	3ms/step	- 10s	5: 0.0468	- accuracy:	0.9848 -	· val_loss:	0.06/4 -	val_accuracy:	0.9760
	[======] 739/1500	-	0s	4ms/step	- los	s: 0.0469	- accuracy:	0.9848 -	val_loss:	0.0674 -	val_accuracy:	0.9760
75/75	[]	-	0s	5ms/step	- los	s: 0.0468	- accuracy:	0.9844 -	val_loss:	0.0673 -	val_accuracy:	0.9760
	740/1500 []	_	0s	4ms/step	- los	s: 0.0468	- accuracy:	0.9844 -	val_loss:	0.0673 -	val_accuracy:	0.9760
	741/1500	_	95	5ms/sten	- los	: 0.0468	- accuracy:	0.9848 -	val loss:	0.0673 -	val accuracy:	0.9760
Epoch	742/1500						,		_		_ ′	
	[=======] 743/1500	-	0s	4ms/step	- los	5: 0.0468	- accuracy:	0.9848 -	val_loss:	0.0674 -	val_accuracy:	0.9747
	[======] 744/1500	-	0s	5ms/step	- los	3: 0.0468	- accuracy:	0.9840 -	val_loss:	0.0674 -	val_accuracy:	0.9760
75/75	[]	-	0s	4ms/step	- los	s: 0.0467	- accuracy:	0.9848 -	val_loss:	0.0672 -	val_accuracy:	0.9760
	745/1500 [=======]	-	0s	3ms/step	- los	s: 0.0467	- accuracy:	0.9844 -	val_loss:	0.0672 -	val_accuracy:	0.9760
	746/1500 []	_	as	3ms/sten	- los	. 0 0467	- accuracy:	0 9844 -	val loss:	0 0674 -	val accuracy:	a 976a
Epoch	747/1500						-		_			
	[========] 748/1500	-	0s	3ms/step	- los	s: 0.0467	- accuracy:	0.9848 -	val_loss:	0.0673 -	val_accuracy:	0.9760
	[======]	-	0s	3ms/step	- los	s: 0.0467	- accuracy:	0.9844 -	val_loss:	0.0672 -	val_accuracy:	0.9760
75/75	749/1500 [=======]	-	0s	4ms/step	- los	s: 0.0467	- accuracy:	0.9848 -	val_loss:	0.0673 -	val_accuracy:	0.9760
	750/1500 []	_	0s	3ms/sten	- los	s: 0.0466	- accuracy:	0.9853 -	val loss:	0.0673 -	val_accuracv:	0.9760
Epoch	751/1500						,		_		- 1	
	[========] 752/1500	-	ØS.	3ms/step	- 10s	5: 0.0466	- accuracy:	0.985/ -	· val_loss:	0.06/3 -	val_accuracy:	0.9760
	[======] 753/1500	-	0s	3ms/step	- los	s: 0.0467	- accuracy:	0.9853 -	val_loss:	0.0673 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step	- los	s: 0.0466	- accuracy:	0.9848 -	val_loss:	0.0674 -	val_accuracy:	0.9760
	754/1500 []	_	0s	3ms/step	- los	s: 0.0466	- accuracv:	0.9848 -	val loss:	0.0673 -	val accuracy:	0.9760
Epoch	755/1500 []											
/5//5		-	05	3ms/step	- 10S	5: 0.0465	- accuracy:	0.9844 -	· vai_ioss:	0.06/3 -	vai_accuracy:	0.9760
Epoch	756/1500				100	3: 0.0466	- accuracy:	0.9844 -	val_loss:	0 0673 -	val accuracy:	0.9760
75/75	756/1500 [======]	-	0s	3ms/step	- 103					0.0075	var_accuracy.	
75/75 Epoch 75/75	756/1500 [======] 757/1500 [======]					s: 0.0465	- accuracy:	0.9853 -	val_loss:			
75/75 Epoch 75/75 Epoch	756/1500 [======] 757/1500	-	0s	3ms/step	- los					0.0676 -	val_accuracy:	0.9773
75/75 Epoch 75/75 Epoch 75/75 Epoch	756/1500 [] 757/1500 [] 758/1500 [] 759/1500	-	0s 0s	3ms/step 3ms/step	- los - los	s: 0.0466	- accuracy:	0.9840 -	val_loss:	0.0676 - 0.0675 -	val_accuracy:	0.9773 0.9747
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	756/1500 [] 757/1500 [] 758/1500 [] 758/1500 [] 759/1500 [] 760/1500	-	0s 0s 0s	3ms/step 3ms/step 3ms/step	- los - los - los	s: 0.0466 s: 0.0465	- accuracy:	0.9840 -	val_loss:	0.0676 - 0.0675 - 0.0673 -	val_accuracy: val_accuracy: val_accuracy:	0.9773 0.9747 0.9760
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	756/1500 [] 757/1500 [] 758/1500 [] 759/1500 [] 760/1500 []	-	0s 0s 0s	3ms/step 3ms/step 3ms/step	- los - los - los	s: 0.0466 s: 0.0465	- accuracy:	0.9840 -	val_loss:	0.0676 - 0.0675 - 0.0673 -	val_accuracy: val_accuracy: val_accuracy:	0.9773 0.9747 0.9760
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	756/1500 [] 757/1500 [] 758/1500 [] 758/1500 [] 759/1500 [] 760/1500 []	-	0s 0s 0s 0s	3ms/step 3ms/step 3ms/step 3ms/step	- los - los - los - los	s: 0.0466 s: 0.0465 s: 0.0465	accuracy:accuracy:accuracy:	0.9840 - 0.9844 - 0.9848 -	val_loss: val_loss: val_loss:	0.0676 - 0.0675 - 0.0673 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.9773 0.9747 0.9760 0.9760
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	756/1500 [757/1500 [757/1500 [] 758/1500 [] 759/1500 [] 760/1500 [] 760/1500 []		0s 0s 0s 0s	3ms/step 3ms/step 3ms/step 3ms/step 3ms/step	- los - los - los - los - los	s: 0.0466 s: 0.0465 s: 0.0465 s: 0.0465	- accuracy: - accuracy: - accuracy: - accuracy:	0.9840 - 0.9844 - 0.9848 -	val_loss: val_loss: val_loss: val_loss:	0.0676 - 0.0675 - 0.0673 - 0.0673 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.9773 0.9747 0.9760 0.9760 0.9760
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	756/1500 [] 757/1500 [] 758/1500 [] 759/1500 [] 760/1500 [] 761/1500 [] 762/1500 [] 762/1500 []		0s 0s 0s 0s 0s	3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step	- los - los - los - los - los - los	s: 0.0466 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0465	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.9840 - 0.9844 - 0.9848 - 0.9844 -	val_loss: val_loss: val_loss: val_loss: val_loss:	0.0676 - 0.0675 - 0.0673 - 0.0673 - 0.0672 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9773 0.9747 0.9760 0.9760 0.9760 0.9760
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	756/1500 [] 757/1500 [] 758/1500 [] 759/1500 [] 760/1500 [] 761/1500 [] 762/1500 [] 763/1500 [] 763/1500		0s 0s 0s 0s 0s	3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 2ms/step	- los	s: 0.0466 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0464	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.9840 - 0.9844 - 0.9844 - 0.9844 - 0.9848 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0676 - 0.0675 - 0.0673 - 0.0673 - 0.0672 - 0.0672 - 0.0673 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9773 0.9747 0.9760 0.9760 0.9760 0.9760 0.9760
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	756/1500 [0s 0s 0s 0s 0s	3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 2ms/step	- los	s: 0.0466 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0464	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.9840 - 0.9844 - 0.9844 - 0.9844 - 0.9848 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0676 - 0.0675 - 0.0673 - 0.0673 - 0.0672 - 0.0672 - 0.0673 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9773 0.9747 0.9760 0.9760 0.9760 0.9760 0.9760
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	756/1500 [0s 0s 0s 0s 0s 0s	3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step	- los	s: 0.0466 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0464	- accuracy: - accuracy: - accuracy: - accuracy: - accuracy: - accuracy:	0.9840 - 0.9844 - 0.9844 - 0.9844 - 0.9848 - 0.9848 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0676 - 0.0675 - 0.0673 - 0.0673 - 0.0672 - 0.0672 - 0.0673 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9773 0.9747 0.9760 0.9760 0.9760 0.9760 0.9760 0.9760
75/75 Epoch 75/75	756/1500 [0s 0s 0s 0s 0s 0s	3ms/step 3ms/step 3ms/step 3ms/step 3ms/step 2ms/step 3ms/step 3ms/step 3ms/step	- los	s: 0.0466 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0464 s: 0.0464	- accuracy:	0.9840 - 0.9844 - 0.9848 - 0.9848 - 0.9848 - 0.9848 - 0.9848 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0676 - 0.0675 - 0.0673 - 0.0672 - 0.0672 - 0.0673 - 0.0673 - 0.0673 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9773 0.9747 0.9760 0.9760 0.9760 0.9760 0.9760 0.9760
75/75 Epoch	756/1500 [0s 0s 0s 0s 0s 0s 0s	3ms/step	- los	s: 0.0466 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0464 s: 0.0464 s: 0.0464	- accuracy:	0.9840 - 0.9844 - 0.9848 - 0.9848 - 0.9848 - 0.9848 - 0.9853 -	val_loss:	0.0676 - 0.0675 - 0.0673 - 0.0672 - 0.0672 - 0.0673 - 0.0673 - 0.0673 - 0.0672 -	val_accuracy:	0.9773 0.9747 0.9760 0.9760 0.9760 0.9760 0.9760 0.9760 0.9760
75/75 Epoch	756/1500 [0s 0s 0s 0s 0s 0s 0s	3ms/step	- los	s: 0.0466 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0465 s: 0.0464 s: 0.0464 s: 0.0464	- accuracy:	0.9840 - 0.9844 - 0.9848 - 0.9848 - 0.9848 - 0.9848 - 0.9853 - 0.9848 -	val_loss:	0.0676 - 0.0675 - 0.0673 - 0.0672 - 0.0672 - 0.0673 - 0.0672 - 0.0673 - 0.0672 - 0.0672 -	val_accuracy:	0.9773 0.9747 0.9760 0.9760 0.9760 0.9760 0.9760 0.9760 0.9760 0.9760

	769/1500								
	[=======] 770/1500	- 09	3ms/step	- loss:	0.0464 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9760	Э
75/75	[]	- 09	3ms/step	- loss:	0.0463 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9747	7
	771/1500 []	- 00	: 3mc/stan	- 1055	0 0463 - accuracy	. 0 0844 - va	1 1000 0 0671 -	val accuracy: 0 9766	a
	772/1500	- 0.	э эшэ/эсер	- 1033.	0.0403 - accuracy	. 0.3044 - Va	11_1033. 0.0071	var_accaracy. 0.5700	
	[] 773/1500	- 09	3ms/step	- loss:	0.0464 - accuracy	: 0.9848 - va	1_loss: 0.0672 -	val_accuracy: 0.9747	7
	[=======]	- 09	3ms/step	- loss:	0.0463 - accuracy	: 0.9844 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	0
	774/1500 []	- 00	: 3mc/stan	- 1055	0 0463 - accuracy	. 0 0844 - va	1 1000 0 0671 -	val accuracy: 0 9766	a
Epoch	775/1500								
	[=======] 776/1500	- 09	3ms/step	- loss:	0.0462 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9773	3
	[]	- 09	3ms/step	- loss:	0.0463 - accuracy	: 0.9844 - va	nl_loss: 0.0671 -	val_accuracy: 0.9773	3
	777/1500 []	0.	2mc/c+on	1000	0 0462 accuracy	. a agaa ya	1 1000 0 0071	val accuracy: 0.0773	2
	778/1500	- 0.	э эшэ/эсер	- 1033.	0.0403 - accuracy	. 0.3044 - Va	11_1033. 0.0071	var_accaracy. 0.5775	,
	[======] 779/1500	- 09	3ms/step	- loss:	0.0462 - accuracy	: 0.9848 - va	al_loss: 0.0671 -	val_accuracy: 0.9773	3
	[=======]	- 09	3ms/step	- loss:	0.0462 - accuracy	: 0.9853 - va	al_loss: 0.0670 -	val_accuracy: 0.9773	3
	780/1500 []	0.	2mc/c+on	1000	0 0461 accuracy	. a agaa ya	1 1000 0 0071	val accuracy: 0.0773	2
	781/1500	- 0:	5 31115/5 CEP	- 1055.	0.0401 - accuracy	. 0.3044 - va	11_1055. 0.0071 -	var_accuracy. 0.5773	,
	[=========]	- 09	3ms/step	- loss:	0.0462 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9760	0
	782/1500 [======]	- 09	3ms/step	- loss:	0.0462 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9760	0
	783/1500	0.	2mc/c+on	locci	0 0452 accuracy	. a asaa wa	1 1000 0 0072	val accuracy: 0.0766	a
	[=====================================	- 65	s siiis/step	- 1055:	0.0462 - accuracy	: 0.9644 - Va	11_1055: 0.0072 -	vai_accuracy: 0.9760	0
	[======]	- 09	3ms/step	- loss:	0.0462 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9760	0
	785/1500 [======]	- 09	3ms/step	- loss:	0.0462 - accuracy	: 0.9844 - va	al_loss: 0.0671 -	val_accuracy: 0.9773	3
	786/1500		2		0.0464			0.077	2
	[=======] 787/1500	- 05	s 3ms/step	- 10SS:	0.0461 - accuracy	: 0.9844 - va	11_10SS: 0.06/1 -	vai_accuracy: 0.9//3	3
	[]	- 09	3ms/step	- loss:	0.0461 - accuracy	: 0.9848 - va	al_loss: 0.0672 -	val_accuracy: 0.9760	0
	788/1500 []	- 09	4ms/step	- loss:	0.0461 - accuracy	: 0.9844 - va	al_loss: 0.0678 -	val_accuracy: 0.9760	0
Epoch	789/1500								
	[=====================================	- 65		- 1055:	o.o4oz - accuracy	. 0.9646 - Va	1033: 0.00/3 -	vai_accuracy: 0.9/60	U
	[]	- 09	4ms/step	- loss:	0.0461 - accuracy	: 0.9848 - va	al_loss: 0.0672 -	val_accuracy: 0.9773	3
	791/1500 []	- 09	4ms/step	- loss:	0.0461 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9773	3
Epoch	792/1500								
	[=====================================	- 09	4ms/step	- loss:	0.0461 - accuracy	: 0.9848 - va	11_10ss: 0.06/1 -	val_accuracy: 0.9//	3
	[]	- 09	4ms/step	- loss:	0.0461 - accuracy	: 0.9853 - va	al_loss: 0.0671 -	val_accuracy: 0.9773	3
	794/1500	- 09	3ms/step	- loss:	0.0460 - accuracy	: 0.9844 - va	al loss: 0.0671 -	val accuracy: 0.9773	3
Epoch	795/1500								
	[========] 796/1500	- 05	4ms/step	- 1055:	0.0460 - accuracy	: 0.9844 - va	11_10SS: 0.06/2 -	vai_accuracy: 0.9//3	3
	[]	- 09	4ms/step	- loss:	0.0460 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9773	3
	797/1500	- 09	4ms/step	- loss:	0.0460 - accuracy	: 0.9848 - va	al_loss: 0.0671 -	val_accuracy: 0.9773	3
	798/1500		2		0.0450	0.0040		0.077	2
	[=====================================	- 05	s 3ms/step	- 10SS:	0.0460 - accuracy	: 0.9848 - Va	11_10SS: 0.06/1 -	vai_accuracy: 0.9//3	3
	[======]	- 09	4ms/step	- loss:	0.0460 - accuracy	: 0.9844 - va	al_loss: 0.0671 -	val_accuracy: 0.9773	3
	800/1500 [======]	- 09	4ms/step	- loss:	0.0460 - accuracy	: 0.9848 - va	al_loss: 0.0671 -	val_accuracy: 0.9773	3
	801/1500				0.0450		.1.1		2
	[========] 802/1500	- 65	4ms/step	- 1055:	0.0459 - accuracy	: 0.9644 - Va	11_1055: 0.0070 -	vai_accuracy: 0.9773	>
	[======] 803/1500	- 09	4ms/step	- loss:	0.0459 - accuracy	: 0.9844 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	0
	[]	- 09	4ms/step	- loss:	0.0459 - accuracy	: 0.9844 - va	al_loss: 0.0672 -	val_accuracy: 0.9760	0
	804/1500 []	0.	· Ame/ston	1000	0 04E0 200UD20	. a aoao wa	1 1000 0 0072	val_accuracy: 0.9760	a
	805/1500	- 0:	- 4 ш5/ 5 сер	- 1055.	0.0439 - accuracy	. 0.3040 - va	11_1033. 0.0072 -	var_accuracy. 0.9700	U
	[=======] 806/1500	- 09	3ms/step	- loss:	0.0459 - accuracy	: 0.9848 - va	al_loss: 0.0672 -	val_accuracy: 0.9773	3
	[]	- 09	3ms/step	- loss:	0.0460 - accuracy	: 0.9844 - va	1_loss: 0.0669 -	val_accuracy: 0.9785	5
	807/1500 []	- 00	: 3mc/stan	- 1055	0 0459 - accuracy	. 0 0844 - va	1 1000 0 0670 -	val accuracy: 0 9773	2
	808/1500	- 0.	э эшэ/эсер	- 1033.	0.0455 - accuracy	. 0.3044 - Va	11_1033. 0.0070	var_accaracy. 0.5775	,
	[======] 809/1500	- 09	2ms/step	- loss:	0.0459 - accuracy	: 0.9848 - va	l_loss: 0.0671 -	val_accuracy: 0.9760	0
	[=======]	- 09	3ms/step	- loss:	0.0458 - accuracy	: 0.9848 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	0
	810/1500	0.	2mc/c+on	1000	0 04E9 200UD20	. a aoao wa	1 1000 0 0070	val accuracy: 0.0773	2
Epoch	[=======] 811/1500						_		
75/75	[]	- 09	3ms/step	- loss:	0.0458 - accuracy	: 0.9844 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	Э
75/75	812/1500 []	- 09	3ms/step	- loss:	0.0458 - accuracy	: 0.9848 - va	al_loss: 0.0670 -	val_accuracy: 0.9773	3
Epoch	813/1500 []								
Epoch	814/1500								
	[======] 815/1500	- 09	3ms/step	- loss:	0.0458 - accuracy	: 0.9848 - va	al_loss: 0.0670 -	val_accuracy: 0.9773	3
75/75	[]	- 09	3ms/step	- loss:	0.0458 - accuracy	: 0.9848 - va	al_loss: 0.0670 -	val_accuracy: 0.9773	3
	816/1500	- 0-	3ms/etan	- 1000	0.0458 - accuracy	: 0.9849	al loss a acta	val accuracy: A 07co	Р
Epoch	817/1500						_		
	[======] 818/1500	- 09	3ms/step	- loss:	0.0457 - accuracy	: 0.9848 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	а
75/75	[======]	- 09	3ms/step	- loss:	0.0457 - accuracy	: 0.9844 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	0
	819/1500 []	- a-	3ms/stan	- 1055.	0.0457 - accuracy	: 0.9853 - ٧٦	al loss: a as7a	val accuracy. A 07co	0
Epoch	820/1500								
	[======] 821/1500	- 09	3ms/step	- loss:	0.0457 - accuracy	: 0.9848 - va	al_loss: 0.0670 -	val_accuracy: 0.9760	а
75/75	[]	- 09	3ms/step	- loss:	0.0457 - accuracy	: 0.9848 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	0
	822/1500 [======]	_ 0,	3ms/stan	- 1000	0.0457 - accuracy	: 0.9853 - 1/2	al loss. A A672	val accuracy. A 0766	Р
	823/1500	- 0.	э эшэ/эсер	- 1033.	0.0457 - accuracy	. 0.3033 - va	11_1033. 0.0072	var_accaracy. 0.5700	
	[========]	- 09	3ms/step	- loss:	0.0456 - accuracy	: 0.9848 - va	al_loss: 0.0669 -	val_accuracy: 0.9773	3
75/75	824/1500 []	- 09	3ms/step	- loss:	0.0456 - accuracy	: 0.9848 - va	al_loss: 0.0670 -	val_accuracy: 0.9760	0
	825/1500 [======]	_ 0,	3ms/stan	- 1000	0.0456 - accuracy	: 0.9848 - 1/2	al loss. a asta	val accuracy. A 0766	А
Epoch	826/1500						_		
	[======] 827/1500	- 09	3ms/step	- loss:	0.0456 - accuracy	: 0.9844 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	Э
75/75	[]	- 09	3ms/step	- loss:	0.0456 - accuracy	: 0.9848 - va	al_loss: 0.0671 -	val_accuracy: 0.9760	0
	828/1500 []	_ 0-	3mc/c+or	- 1000	0 0456 - accuracy	. 0 0823	al loss. a acza	val accuracy: 0 07co	а
Epoch	829/1500								
75/75	[======] 830/1500	- 09	3ms/step	- loss:	0.0456 - accuracy	: 0.9844 - va	al_loss: 0.0670 -	val_accuracy: 0.9760	а
75/75	[]	- 09	3ms/step	- loss:	0.0455 - accuracy	: 0.9848 - va	al_loss: 0.0671 -	val_accuracy: 0.9773	3
Epoch	831/1500								
		03		1033;	1.0-50 - accuracy	. 0.2070 - Vd	1000. 0.0070 -	accuracy. 0.5//3	-
	832/1500								
Epoch	832/1500 []	- 09	3ms/step	- loss:	0.0455 - accuracy	: 0.9844 - va	al_loss: 0.0670 -	val_accuracy: 0.9760	0

	833/1500													
	[======] 834/1500	-	0s	3ms/step	-	loss:	0.0456 -	accuracy	: 0.9848	-	val_loss:	0.0670 -	val_accuracy:	0.9760
75/75	[]	-	0s	2ms/step	-	loss:	0.0455 -	accuracy	: 0.9848	-	val_loss:	0.0670 -	val_accuracy:	0.9773
75/75	835/1500 []	-	0s	3ms/step	-	loss:	0.0455 -	accuracy	: 0.9848	-	val_loss:	0.0671 -	val_accuracy:	0.9760
	836/1500 [=======]	_	0s	3ms/step	_	loss:	0.0455 -	accuracy	: 0.9853	_	val_loss:	0.0671 -	val_accuracy:	0.9760
	837/1500 []	_	0s	3ms/step	_	loss:	0.0455 -	accuracv	: 0.9848	_	val loss:	0.0671 -	val accuracy:	0.9773
Epoch	838/1500													
Epoch	[=======] 839/1500													
	[========] 840/1500	-	0s	3ms/step	-	loss:	0.0455 -	accuracy	: 0.9848	-	val_loss:	0.0670 -	val_accuracy:	0.9773
75/75	[======] 841/1500	-	0s	3ms/step	-	loss:	0.0455 -	accuracy	: 0.9848	-	val_loss:	0.0671 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step	-	loss:	0.0455 -	accuracy	: 0.9848	-	val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	842/1500 [======]	-	0s	3ms/step	-	loss:	0.0454 -	accuracy	: 0.9848	-	val_loss:	0.0669 -	val_accuracy:	0.9760
	843/1500 [========]	-	0s	3ms/step	-	loss:	0.0454 -	accuracy	: 0.9844	_	val_loss:	0.0670 -	val_accuracy:	0.9760
	844/1500	-	0s	3ms/sten	_	loss:	0.0454 -	accuracy	: 0.9848	_	val loss:	0.0670 -	val accuracy:	0.9760
Epoch	845/1500 [======]							-			_			
Epoch	846/1500													
Epoch	[========] 847/1500							-			_			
	[=======] 848/1500	-	0s	3ms/step	-	loss:	0.0454 -	accuracy	: 0.9848	-	val_loss:	0.0670 -	val_accuracy:	0.9760
75/75	[=======] 849/1500	-	0s	3ms/step	-	loss:	0.0453 -	accuracy	: 0.9853	-	val_loss:	0.0671 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step	-	loss:	0.0454 -	accuracy	: 0.9853	-	val_loss:	0.0669 -	val_accuracy:	0.9773
75/75	850/1500 [=======]	-	0s	4ms/step	-	loss:	0.0453 -	accuracy	: 0.9848	-	val_loss:	0.0669 -	val_accuracy:	0.9773
	851/1500 [======]	_	0s	4ms/step	_	loss:	0.0453 -	accuracy	: 0.9844	_	val loss:	0.0669 -	val accuracy:	0.9773
Epoch	852/1500 [======]										_			
Epoch	853/1500							-			_			
Epoch	[======] 854/1500													
	[=======] 855/1500	-	0s	3ms/step	-	loss:	0.0453 -	accuracy	: 0.9844	-	val_loss:	0.0669 -	val_accuracy:	0.9773
	[======] 856/1500	-	0s	3ms/step	-	loss:	0.0453 -	accuracy	: 0.9848	-	val_loss:	0.0670 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step	-	loss:	0.0452 -	accuracy	: 0.9848	-	val_loss:	0.0669 -	val_accuracy:	0.9773
75/75	857/1500 [======]	-	0s	3ms/step	-	loss:	0.0453 -	accuracy	: 0.9848	-	val_loss:	0.0669 -	val_accuracy:	0.9773
	858/1500 [========]	-	0s	4ms/step	-	loss:	0.0452 -	accuracy	: 0.9848	_	val_loss:	0.0670 -	val_accuracy:	0.9773
	859/1500 []	_	0s	4ms/step	_	loss:	0.0453 -	accuracy	: 0.9853	_	val loss:	0.0670 -	val accuracy:	0.9760
Epoch	860/1500 []													
Epoch	861/1500													
Epoch	[======] 862/1500													
	[=======] 863/1500	-	0s	4ms/step	-	loss:	0.0452 -	accuracy	: 0.9853	-	val_loss:	0.0668 -	val_accuracy:	0.9760
	[======] 864/1500	-	0s	4ms/step	-	loss:	0.0452 -	accuracy	: 0.9848	-	val_loss:	0.0668 -	val_accuracy:	0.9760
75/75	[]	-	0s	4ms/step	-	loss:	0.0452 -	accuracy	: 0.9848	-	val_loss:	0.0668 -	val_accuracy:	0.9760
75/75	865/1500 [======]	-	0s	5ms/step	-	loss:	0.0452 -	accuracy	: 0.9848	-	val_loss:	0.0669 -	val_accuracy:	0.9760
	866/1500 [=======]	-	0s	4ms/step	-	loss:	0.0451 -	accuracy	: 0.9844	_	val_loss:	0.0668 -	val_accuracy:	0.9773
	867/1500 []	_	0s	4ms/step	_	loss:	0.0452 -	accuracy	: 0.9844	_	val_loss:	0.0669 -	val_accuracy:	0.9760
Epoch	868/1500												val accuracy:	
Epoch	869/1500 [======]							,			_		_ ′	
Epoch	870/1500							-			_			
Epoch	[======] 871/1500							,			_		_ ′	
	[======] 872/1500	-	0s	3ms/step	-	loss:	0.0451 -	accuracy	: 0.9848	-	val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[=====================================	-	0s	3ms/step	-	loss:	0.0451 -	accuracy	: 0.9848	-	val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step	-	loss:	0.0451 -	accuracy	: 0.9848	-	val_loss:	0.0668 -	val_accuracy:	0.9760
75/75	874/1500 []	-	0s	3ms/step	-	loss:	0.0451 -	accuracy	: 0.9853	-	val_loss:	0.0667 -	val_accuracy:	0.9760
	875/1500 []	_	0s	3ms/step	_	loss:	0.0451 -	accuracy	: 0.9848	_	val_loss:	0.0668 -	val_accuracy:	0.9760
Epoch	876/1500 [======]													
Epoch	877/1500 [======]							-			_			
Epoch	878/1500							-			_			
Epoch	[======] 879/1500							,			_		_ ′	
	[=======] 880/1500	-	0s	3ms/step	-	loss:	0.0450 -	accuracy	: 0.9853	-	val_loss:	0.0667 -	val_accuracy:	0.9760
75/75	[======] 881/1500	-	0s	3ms/step	-	loss:	0.0450 -	accuracy	: 0.9848	-	val_loss:	0.0667 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step	-	loss:	0.0450 -	accuracy	: 0.9848	-	val_loss:	0.0668 -	val_accuracy:	0.9760
	882/1500 []	-	0s	3ms/step	-	loss:	0.0450 -	accuracy	: 0.9848	-	val_loss:	0.0668 -	val_accuracy:	0.9760
	883/1500 []	_	0s	3ms/step	_	loss:	0.0450 -	accuracy	: 0.9844	_	val_loss:	0.0668 -	val_accuracy:	0.9760
	884/1500 [======]	-	0s	3ms/sten	_	loss:	0.0450 -	accuracy	: 0.9844	_	val loss:	0.0669 -	val accuracy:	0.9760
Epoch	885/1500 [======]							-			_			
Epoch	886/1500													
Epoch	[=======] 887/1500							-			_			
	[======] 888/1500	-	0s	3ms/step	-	loss:	0.0449 -	accuracy	: 0.9848	-	val_loss:	0.0667 -	val_accuracy:	0.9773
75/75	[=======] 889/1500	-	0s	3ms/step	-	loss:	0.0449 -	accuracy	: 0.9844	-	val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step	-	loss:	0.0449 -	accuracy	: 0.9848	-	val_loss:	0.0666 -	val_accuracy:	0.9773
75/75	890/1500 [======]	-	0s	3ms/step	-	loss:	0.0449 -	accuracy	: 0.9853	-	val_loss:	0.0668 -	val_accuracy:	0.9760
	891/1500 []	_	0s	3ms/step	_	loss:	0.0449 -	accuracy	: 0.9853	_	val_loss:	0.0667 -	val_accuracy:	0.9773
Epoch	892/1500 [======]													
Epoch	893/1500							-			_			
Epoch	[======] 894/1500													
Epoch	[=======] 895/1500													
	[======] 896/1500	-	0s	3ms/step	-	loss:	0.0448 -	accuracy	: 0.9848	-	val_loss:	0.0670 -	val_accuracy:	0.9760
	[======]	-	0s	3ms/step	-	loss:	0.0449 -	accuracy	: 0.9857	-	val_loss:	0.0667 -	val_accuracy:	0.9760

Epoch	897/1500										
	[======]	-	0s	3ms/step -	loss:	0.0448 - accuracy	: 0.9853	<pre>- val_loss:</pre>	0.0666 -	val_accuracy:	0.9760
	898/1500 []	_	0s	3ms/step -	loss:	0.0447 - accuracy	: 0.9848	- val loss:	0.0668 -	val accuracy:	0.9760
Epoch	899/1500										
	[=======] 900/1500	-	0s	3ms/step -	loss:	0.0448 - accuracy	: 0.9848	- val_loss:	0.0668 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0448 - accuracy	: 0.9848	- val_loss:	0.0668 -	val_accuracy:	0.9760
	901/1500	_	9s	3ms/sten -	loss:	0.0448 - accuracy	: 0.9857	- val loss:	0.0667 -	val accuracy:	0.9760
Epoch	902/1500										
	[=======] 903/1500	-	0s	3ms/step -	loss:	0.0448 - accuracy	: 0.9857	- val_loss:	0.0666 -	val_accuracy:	0.9760
	[=======]	-	0s	3ms/step -	loss:	0.0447 - accuracy	: 0.9844	- val_loss:	0.0667 -	val_accuracy:	0.9760
	904/1500		ac	2ms/ston	1000	0 0447 accuracy	. 0 0057	val loss:	0 0000	val accumacy:	0.0760
	905/1500	-	05	Jiis/step -	1055.	0.0447 - accuracy	. 0.3637	- vai_1055.	0.0008 -	vai_accuracy.	0.5700
	[=======] 906/1500	-	0s	3ms/step -	loss:	0.0447 - accuracy	: 0.9848	- val_loss:	0.0668 -	val_accuracy:	0.9760
	[]	-	0s	3ms/step -	loss:	0.0448 - accuracy	: 0.9853	- val_loss:	0.0667 -	val_accuracy:	0.9760
	907/1500		ac	2ms/ston	1000	0 0447 accuracy	. 0 0010	val loss:	0 0667	val accumacy:	0.0760
	908/1500		03	31113/3CEP -	1033.	0.0447 - accuracy	. 0.5040	- vai_1033.	0.0007	var_accuracy.	0.5700
	[======]	-	0s	3ms/step -	loss:	0.0447 - accuracy	: 0.9853	<pre>- val_loss:</pre>	0.0665 -	val_accuracy:	0.9760
	909/1500	_	0s	3ms/step -	loss:	0.0446 - accuracy	: 0.9844	- val_loss:	0.0666 -	val_accuracy:	0.9760
Epoch	910/1500										
	[=====================================	-	0s	3ms/step -	loss:	0.0446 - accuracy	: 0.9853	- val_loss:	0.0666 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0446 - accuracy	: 0.9848	- val_loss:	0.0667 -	val_accuracy:	0.9760
	912/1500	_	9s	4ms/sten -	loss:	0.0446 - accuracy	: 0.9848	- val loss:	0.0668 -	val accuracy:	0.9760
Epoch	913/1500							_			
	[======] 914/1500	-	0s	4ms/step -	loss:	0.0446 - accuracy	: 0.9853	- val_loss:	0.0666 -	val_accuracy:	0.9773
75/75	[]	-	0s	4ms/step -	loss:	0.0446 - accuracy	: 0.9853	- val_loss:	0.0667 -	val_accuracy:	0.9760
	915/1500	_	as	Ams/sten -	loss	0 0446 - accuracy	· 0 9853	- val loss:	0 0668 -	val accuracy:	0 9760
Epoch	916/1500										
	[=======] 917/1500	-	0s	4ms/step -	loss:	0.0446 - accuracy	: 0.9857	- val_loss:	0.0668 -	val_accuracy:	0.9760
75/75	[]	-	0s	4ms/step -	loss:	0.0446 - accuracy	: 0.9848	- val_loss:	0.0668 -	val_accuracy:	0.9760
	918/1500		ac	Ams /ston	1000	0 044E 200UD20	. 0 0057	val loss:	0 0667	val accumacy:	0 0772
	[=======] 919/1500	-	05	41113/3CEP -	1055.	0.0443 - accuracy	. 0.3637	- vai_1055.	0.0007 -	vai_accuracy.	0.3773
	[=========]	-	0s	4ms/step -	loss:	0.0446 - accuracy	: 0.9848	- val_loss:	0.0668 -	val_accuracy:	0.9760
	920/1500	-	0s	4ms/step -	loss:	0.0445 - accuracy	: 0.9853	- val_loss:	0.0668 -	val_accuracy:	0.9760
	921/1500		0-	2ms (ston	10001	0.0445	. 0 0057	wal lass.	0.0000		0.0760
	[=======] 922/1500	-	05	oms/step -	1055.	0.0445 - accuracy	. 0.965/	- vai_1055:	0.0009 -	vai_accuracy:	0.9760
	[======]	-	0s	4ms/step -	loss:	0.0445 - accuracy	: 0.9853	<pre>- val_loss:</pre>	0.0669 -	val_accuracy:	0.9760
	923/1500	-	0s	4ms/step -	loss:	0.0445 - accuracy	: 0.9853	- val_loss:	0.0668 -	val_accuracy:	0.9760
Epoch	924/1500										
	[=====================================	-	0s	4ms/step -	loss:	0.0445 - accuracy	: 0.9853	- val_loss:	0.0667 -	val_accuracy:	0.9773
75/75	[]	-	0s	4ms/step -	loss:	0.0445 - accuracy	: 0.9853	- val_loss:	0.0668 -	val_accuracy:	0.9760
	926/1500	_	0s	4ms/step -	loss:	0.0444 - accuracy	: 0.9861	- val loss:	0.0668 -	val accuracy:	0.9760
Epoch	927/1500										
	[=====================================	-	0s	4ms/step -	loss:	0.0444 - accuracy	: 0.9853	- val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[]	-	0s	4ms/step -	loss:	0.0444 - accuracy	: 0.9853	- val_loss:	0.0667 -	val_accuracy:	0.9773
	929/1500	_	ac	3ms/sten -	1000	0 0444 - accuracy	· 0 9853	- val loss:	0 0660 -	val accuracy:	0 9760
	930/1500		03	31113/3CEP -	1033.	0.0444 - accuracy	. 0.5055	- vai_1033.	0.0005	var_accuracy.	0.5700
	[=======] 931/1500	-	0s	2ms/step -	loss:	0.0444 - accuracy	: 0.9853	- val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0444 - accuracy	: 0.9848	- val_loss:	0.0669 -	val_accuracy:	0.9760
Epoch 75/75	932/1500		0s	2ms/ston	1000	0.0443 - accuracy	. 0 0052	val loss:	0 0000	val accumacy:	0.0760
	933/1500		03	31113/3CEP -	1033.	0.0445 - accuracy	. 0.5055	- vai_1033.	0.0000	var_accuracy.	0.5700
	[=====================================	-	0s	3ms/step -	loss:	0.0444 - accuracy	: 0.9857	- val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0444 - accuracy	: 0.9848	- val_loss:	0.0678 -	val_accuracy:	0.9760
	935/1500	_	ac	3ms/sten -	1000	0 0446 - accuracy	· 0 9857	- val loss:	0 0674 -	val accuracy:	0 9760
	936/1500		03	31113/3CEP -	1033.	0.0440 - accuracy	. 0.5057	- vai_1033.	0.0074	var_accuracy.	0.5700
	[======] 937/1500	-	0s	3ms/step -	loss:	0.0444 - accuracy	: 0.9857	- val_loss:	0.0670 -	val_accuracy:	0.9760
	[]	-	0s	3ms/step -	loss:	0.0443 - accuracy	: 0.9848	- val_loss:	0.0668 -	val_accuracy:	0.9760
	938/1500		٥-	2	1	0.0443			0.0000		0.0760
	[=======] 939/1500	-	US	∍ms/step -	1055:	v.v443 - accuracy	. 0.985/	- vaT_1022:	a.appg -	vai_accuracy:	0.9/60
75/75	[]	-	0s	3ms/step -	loss:	0.0443 - accuracy	: 0.9848	- val_loss:	0.0668 -	val_accuracy:	0.9760
	940/1500	_	0s	3ms/step -	loss:	0.0443 - accuracy	: 0.9857	- val_loss:	0.0669 -	val_accuracv:	0.9760
Epoch	941/1500										
	[=======] 942/1500	-	ØS.	3ms/step -	loss:	0.0442 - accuracy	: 0.9861	- val_loss:	0.0668 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0442 - accuracy	: 0.9853	- val_loss:	0.0668 -	val_accuracy:	0.9760
	943/1500	_	0s	3ms/step -	loss:	0.0443 - accuracy	: 0.9857	- val_loss:	0.0669 -	val_accuracv:	0.9760
Epoch	944/1500										
	[=======] 945/1500	-	0s	∃ms/step -	loss:	0.0442 - accuracy	: 0.9853	- val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0442 - accuracy	: 0.9857	- val_loss:	0.0668 -	val_accuracy:	0.9760
	946/1500	_	٥<	3ms/sten -	loss	0.0442 - accuracy	: 0.9848	- val loss	0.0668 -	val accuracy:	0.9760
Epoch	947/1500							_			
	[======] 948/1500	-	0s	3ms/step -	loss:	0.0442 - accuracy	: 0.9861	- val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0442 - accuracy	: 0.9857	- val_loss:	0.0669 -	val_accuracy:	0.9760
	949/1500	_	0c	3ms/sten	loser	0.0442 - accuracy	r: 0 9853	- val locc	0.0660	val accuracy:	0.9760
Epoch	950/1500										
	[======] 951/1500	-	0s	3ms/step -	loss:	0.0441 - accuracy	: 0.9857	- val_loss:	0.0669 -	val_accuracy:	0.9760
	951/1500 [=======]	-	0s	3ms/step -	loss:	0.0441 - accuracy	: 0.9857	- val_loss:	0.0669 -	val_accuracy:	0.9760
Epoch	952/1500										
	[=======] 953/1500	-	US	∍ms/step -	1055:	0.0441 - accuracy	. 6.9853	- vaT_1022:	v.Vbb9 -	vai_accuracy:	0.9/60
75/75	[]	-	0s	3ms/step -	loss:	0.0442 - accuracy	: 0.9853	- val_loss:	0.0669 -	val_accuracy:	0.9760
	954/1500	_	0s	3ms/step -	loss:	0.0441 - accuracy	: 0.9857	- val loss:	0.0668 -	val_accuracv:	0.9773
Epoch	955/1500							_			
	[======] 956/1500	-	0s	3ms/step -	loss:	0.0441 - accuracy	: 0.9861	- val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0441 - accuracy	: 0.9861	- val_loss:	0.0669 -	val_accuracy:	0.9760
Epoch	957/1500										
	[======] 958/1500	-	US	>ma/areh -	1022;	o.o1 - accuracy	. 0.203/	A01_1022;	- 6000.	.ar_accuracy:	0.2/00
75/75	[]	-	0s	3ms/step -	loss:	0.0441 - accuracy	: 0.9848	- val_loss:	0.0670 -	val_accuracy:	0.9760
	959/1500 []	-	0s	3ms/step -	loss:	0.0441 - accuracy	: 0.9861	- val_loss:	0.0670 -	val_accuracy:	0.9760
Epoch	960/1500										
75/75	[]	-	0s	∃ms/step -	loss:	0.0440 - accuracy	: 0.9857	- val_loss:	0.0670 -	val_accuracy:	0.9760

	961/1500				_						_	
	[=====================================	-	0s	3ms/step	- loss:	0.0440 -	accuracy:	0.9857 -	· val_loss:	0.0670 -	val_accuracy:	0.9760
	[======]] -	0s	3ms/step	- loss:	0.0440 -	accuracy:	0.9861 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	963/1500 []] -	0s	3ms/step	- loss:	0.0440 -	accuracy:	0.9861 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	964/1500 [========]	1	Q.c	2mc/ston	1000	0 0110	accupacy:	0 0053	val loss:	0 0671	val accumacy:	0.760
Epoch	965/1500						-		_			
	[=====================================] -	0s	3ms/step	- loss:	0.0440 -	accuracy:	0.9861 -	val_loss:	0.0671 -	val_accuracy:	0.9760
75/75	[]] -	0s	3ms/step -	- loss:	0.0440 -	accuracy:	0.9857 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	967/1500 []	1 -	0s	3ms/step	- loss:	0.0439 -	accuracy:	0.9857 -	val loss:	0.0670 -	val accuracy:	0.9760
Epoch	968/1500											
	[=====================================] -	ØS.	3ms/step	- loss:	0.0439 -	accuracy:	0.9861 -	val_loss:	0.06/0 -	val_accuracy:	0.9760
75/75	[]] -	0s	3ms/step	- loss:	0.0439 -	accuracy:	0.9857 -	val_loss:	0.0669 -	val_accuracy:	0.9760
75/75	970/1500 [==========]] -	0s	3ms/step	- loss:	0.0439 -	accuracy:	0.9861 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	971/1500 []	1 -	9s	3ms/sten	- loss:	0.0439 -	accuracy:	0.9861 -	val loss:	0.0670 -	val accuracy:	0.9760
Epoch	972/1500											
	[=====================================] -	0s	3ms/step	- loss:	0.0438 -	accuracy:	0.9857 -	val_loss:	0.0670 -	val_accuracy:	0.9760
75/75	[]] -	0s	4ms/step	- loss:	0.0438 -	accuracy:	0.9861 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	974/1500 []	1 -	0s	5ms/step	- loss:	0.0439 -	accuracy:	0.9857 -	val loss:	0.0669 -	val accuracy:	0.9760
Epoch	975/1500											
	[=====================================	-	ØS	4ms/step	- loss:	0.0438 -	accuracy:	0.9857 -	· val_loss:	0.06/1 -	val_accuracy:	0.9760
75/75	[]] -	0s	4ms/step	- loss:	0.0438 -	accuracy:	0.9857 -	val_loss:	0.0671 -	val_accuracy:	0.9760
	977/1500 [=========]] -	0s	4ms/step	- loss:	0.0438 -	accuracy:	0.9857 -	val_loss:	0.0671 -	val_accuracy:	0.9760
	978/1500 [========]	1 -	Оc	Ams/stan	- 1000	0 0/38 -	accuracy:	a 9861 _	val loss:	0 0670 -	val accuracy:	0 9760
Epoch	979/1500						-		_			
	[=====================================	-	0s	4ms/step	- loss:	0.0438 -	accuracy:	0.9861 -	val_loss:	0.0671 -	val_accuracy:	0.9760
75/75	[]] -	0s	4ms/step	- loss:	0.0438 -	accuracy:	0.9857 -	val_loss:	0.0672 -	val_accuracy:	0.9760
	981/1500 [========]	1 -	0s	5ms/step	- loss:	0.0438 -	accuracy:	0.9853 -	val loss:	0.0672 -	val accuracy:	0.9760
Epoch	982/1500						-		_			
	[=====================================] -	ØS.	4ms/step	- loss:	0.0438 -	accuracy:	0.9853 -	val_loss:	0.06/1 -	val_accuracy:	0.9760
	[======================================] -	0s	5ms/step	- loss:	0.0437 -	accuracy:	0.9857 -	val_loss:	0.0671 -	val_accuracy:	0.9760
75/75	984/1500 [=========]] -	0s	4ms/step	- loss:	0.0437 -	accuracy:	0.9853 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	985/1500 []	1 -	۵s	Ams/sten	- loss:	0 0439 -	accuracy:	a 9853 -	val loss.	0 0669 -	val accuracy:	0 9760
Epoch	986/1500											
	[=====================================	-	0s	5ms/step	- loss:	0.0437 -	accuracy:	0.9857 -	val_loss:	0.0671 -	val_accuracy:	0.9760
75/75	[]] -	0s	4ms/step	- loss:	0.0438 -	accuracy:	0.9853 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	988/1500 [========]	1 -	0s	4ms/step	- loss:	0.0437 -	accuracy:	0.9853 -	val loss:	0.0670 -	val accuracy:	0.9760
Epoch	989/1500						-		_			
	[=====================================	1 -	05	oms/step	- 1055:	0.0437 -	accuracy:	0.9001 -	. A91_1022:	0.0009 -	vai_accuracy:	0.9773
	[=====================================	-	0s	3ms/step	- loss:	0.0437 -	accuracy:	0.9861 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	[========]] -	0s	4ms/step	- loss:	0.0436 -	accuracy:	0.9857 -	val_loss:	0.0671 -	val_accuracy:	0.9760
	992/1500 []	1 -	۵s	3ms/sten	- loss:	0 0436 -	accuracy.	a 9857 -	val loss.	0 0670 -	val accuracy:	0 9760
Epoch	993/1500											
	[=====================================	-	0s	3ms/step	- loss:	0.0437 -	accuracy:	0.9857 -	val_loss:	0.0669 -	val_accuracy:	0.9773
75/75	[]] -	0s	3ms/step -	- loss:	0.0436 -	accuracy:	0.9853 -	val_loss:	0.0669 -	val_accuracy:	0.9773
	995/1500 [=========]] -	0s	3ms/step	- loss:	0.0436 -	accuracy:	0.9853 -	val_loss:	0.0670 -	val_accuracy:	0.9760
	996/1500 [========]	1	Q.c	Ame/ston	1000	0 0126	accupacy:	0 0053	val loss:	0 0670	val accumacy:	0.0760
Epoch	997/1500						-		_			
	[============] 998/1500] -	0s	3ms/step	- loss:	0.0435 -	accuracy:	0.9857 -	val_loss:	0.0673 -	val_accuracy:	0.9760
75/75	[======]] -	0s	3ms/step	- loss:	0.0436 -	accuracy:	0.9861 -	val_loss:	0.0671 -	val_accuracy:	0.9760
	999/1500 []	1 -	0s	3ms/step	- loss:	0.0435 -	accuracy:	0.9861 -	val loss:	0.0672 -	val accuracy:	0.9760
Epoch	1000/1500											
	[=====================================	-	0s	3ms/step	- loss:	0.0435 -	accuracy:	0.9857 -	val_loss:	0.0672 -	val_accuracy:	0.9760
75/75	[]] -	0s	3ms/step	- loss:	0.0436 -	accuracy:	0.9853 -	val_loss:	0.0672 -	val_accuracy:	0.9760
	1002/1500] -	0s	3ms/step	- loss:	0.0435 -	accuracy:	0.9857 -	val_loss:	0.0671 -	val_accuracy:	0.9760
Epoch	1003/1500 [=======]											
Epoch	1004/1500											
	[=====================================] -	0s	3ms/step	- loss:	0.0435 -	accuracy:	0.9857 -	val_loss:	0.0672 -	val_accuracy:	0.9760
75/75	[]] -	0s	3ms/step -	- loss:	0.0435 -	accuracy:	0.9857 -	val_loss:	0.0672 -	val_accuracy:	0.9760
	1006/1500	1 -	0s	3ms/step	- loss:	0.0435 -	accuracv:	0.9861 -	val loss:	0.0671 -	val accuracy:	0.9773
Epoch	1007/1500						-		_			
	[=====================================	-	0s	3ms/step	- loss:	0.0434 -	accuracy:	0.9861 -	val_loss:	0.0671 -	val_accuracy:	0.9773
75/75	[]] -	0s	3ms/step	- loss:	0.0435 -	accuracy:	0.9857 -	val_loss:	0.0670 -	val_accuracy:	0.9773
	1009/1500] -	0s	3ms/step	- loss:	0.0434 -	accuracy:	0.9857 -	val_loss:	0.0671 -	val_accuracy:	0.9773
	1010/1500	,	0.0	2me/etan	10001	0.0422		0.0057	wal lass.	0.0070		0.0773
	[=====================================	1 -	05	oms/step	- 1055:	0.0455 -	accuracy:	0.9657 -	. A91_1022:	0.0070 -	vai_accuracy:	0.9773
	[======================================] -	0s	3ms/step	- loss:	0.0434 -	accuracy:	0.9857 -	val_loss:	0.0672 -	val_accuracy:	0.9760
75/75	1012/1500 [=======]] -	0s	3ms/step	- loss:	0.0434 -	accuracy:	0.9857 -	val_loss:	0.0672 -	val_accuracy:	0.9760
	1013/1500 []	1 -	0<	3ms/sten	- loss:	0.0434 -	accuracy:	0.9857 -	val loss.	0.0672 -	val accuracy:	0.9760
Epoch	1014/1500											
	[=======] 1015/1500	-	0s	3ms/step	- loss:	0.0434 -	accuracy:	0.9857 -	val_loss:	0.0672 -	val_accuracy:	0.9760
75/75	[]] -	0s	4ms/step	- loss:	0.0433 -	accuracy:	0.9853 -	val_loss:	0.0671 -	val_accuracy:	0.9760
	1016/1500 []] -	0s	3ms/step	- loss:	0.0433 -	accuracy:	0.9857 -	val_loss:	0.0671 -	val_accuracv:	0.9773
Epoch	1017/1500											
	[=====================================		۷S	oms/step ⋅	- 10SS:	v.0433 -	accuracy:	ש.שא57 -	. AaT_TO22:	0.00/2 -	vai_accuracy:	60/ע.ט
75/75	[]] -	0s	3ms/step	- loss:	0.0433 -	accuracy:	0.9861 -	val_loss:	0.0673 -	val_accuracy:	0.9773
75/75	1019/1500 [=======]] -	0s	3ms/step	- loss:	0.0433 -	accuracy:	0.9857 -	val_loss:	0.0673 -	val_accuracy:	0.9760
Epoch	1020/1500 [======]											
Epoch	1021/1500						-		_			
	[=======] 1022/1500] -	0s	3ms/step	- loss:	0.0433 -	accuracy:	0.9861 -	val_loss:	0.0673 -	val_accuracy:	0.9760
75/75	[]] -	0s	3ms/step	- loss:	0.0433 -	accuracy:	0.9861 -	val_loss:	0.0673 -	val_accuracy:	0.9760
	1023/1500 []	1 -	0<	3ms/sten	- loss	0.0433 -	accuracy.	0.9857 -	val loss:	0.0673 -	val accuracy:	0.9760
Epoch	1024/1500											
75/75	[]] -	0s	3ms/step	- loss:	0.0432 -	accuracy:	0.9861 -	val_loss:	0.0673 -	val_accuracy:	0.9760

	1025/1500	- 0	s 3ms/ster	o -	loss:	0.0432 -	accuracy:	0.9857 -	val loss:	0.0673 -	val accuracy:	0.9773
Epoch	1026/1500 []											
Epoch	1027/1500											
	[========] 1028/1500	- 0	s 3ms/step) -	loss:	0.0432 -	accuracy:	0.9853 -	val_loss:	0.0672 -	val_accuracy:	0.9773
	[=======] 1029/1500	- 0	s 3ms/step	- 0	loss:	0.0432 -	accuracy:	0.9861 -	val_loss:	0.0673 -	val_accuracy:	0.9760
75/75	[]	- 0	s 4ms/step	o -	loss:	0.0432 -	accuracy:	0.9861 -	val_loss:	0.0673 -	val_accuracy:	0.9773
75/75	1030/1500 [=======]	- 0	s 4ms/step	o -	loss:	0.0432 -	accuracy:	0.9857 -	val_loss:	0.0673 -	val_accuracy:	0.9773
	1031/1500	- 0	s 4ms/ster	o -	loss:	0.0431 -	accuracy:	0.9865 -	val loss:	0.0672 -	val accuracy:	0.9773
Epoch	1032/1500											
Epoch	[=======] 1033/1500						-		_			
	[========] 1034/1500	- 0	s 5ms/step) -	loss:	0.0432 -	accuracy:	0.9861 -	val_loss:	0.0673 -	val_accuracy:	0.9760
75/75	[=======] 1035/1500	- 0	s 4ms/step	o -	loss:	0.0431 -	accuracy:	0.9857 -	val_loss:	0.0672 -	val_accuracy:	0.9773
75/75	[]	- 0	s 4ms/step	o -	loss:	0.0431 -	accuracy:	0.9857 -	val_loss:	0.0674 -	val_accuracy:	0.9760
	1036/1500	- 0	s 4ms/ster	o -	loss:	0.0431 -	accuracy:	0.9861 -	val loss:	0.0674 -	val accuracy:	0.9760
Epoch	1037/1500 []						-		_			
Epoch	1038/1500											
	[=========] 1039/1500	- 0	s 5ms/step	o -	loss:	0.0431 -	accuracy:	0.9861 -	val_loss:	0.0675 -	val_accuracy:	0.9760
	[=======] 1040/1500	- 0	s 5ms/step	- 0	loss:	0.0431 -	accuracy:	0.9857 -	val_loss:	0.0675 -	val_accuracy:	0.9760
75/75	[]	- 0	s 4ms/step	o -	loss:	0.0431 -	accuracy:	0.9857 -	val_loss:	0.0675 -	val_accuracy:	0.9760
	1041/1500 [=========]	- 0	s 4ms/step	o -	loss:	0.0430 -	accuracy:	0.9861 -	val_loss:	0.0670 -	val_accuracy:	0.9785
	1042/1500	- 6	s 4ms/ster	n -	loss:	0.0431 -	accuracy:	0.9857 -	val loss:	0.0673 -	val accuracy:	0.9773
Epoch	1043/1500											
Epoch	[=======] 1044/1500											
	[=======] 1045/1500	- 0	s 3ms/step	o -	loss:	0.0430 -	accuracy:	0.9861 -	val_loss:	0.0674 -	val_accuracy:	0.9773
75/75	[]	- 0	s 3ms/step	o -	loss:	0.0430 -	accuracy:	0.9861 -	val_loss:	0.0674 -	val_accuracy:	0.9773
75/75	1046/1500 []	- 0	s 3ms/step	o -	loss:	0.0430 -	accuracy:	0.9857 -	val_loss:	0.0674 -	val_accuracy:	0.9773
Epoch	1047/1500 []											
Epoch	1048/1500											
Epoch	[========] 1049/1500											
	[========] 1050/1500	- 0	s 3ms/step	- 0	loss:	0.0429 -	accuracy:	0.9861 -	val_loss:	0.0674 -	val_accuracy:	0.9773
75/75	[=======] 1051/1500	- 0	s 3ms/step	o -	loss:	0.0429 -	accuracy:	0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9760
75/75	[]	- 0	s 3ms/step	o -	loss:	0.0430 -	accuracy:	0.9857 -	val_loss:	0.0675 -	val_accuracy:	0.9773
	1052/1500	- 0	s 3ms/step	o -	loss:	0.0429 -	accuracy:	0.9857 -	val_loss:	0.0675 -	val_accuracy:	0.9773
Epoch	1053/1500 []											
Epoch	1054/1500											
	[========] 1055/1500	- 0	s 3ms/step	- 0	loss:	0.0429 -	accuracy:	0.9861 -	val_loss:	0.0675 -	val_accuracy:	0.9760
75/75	[=======] 1056/1500	- 0	s 3ms/step	o -	loss:	0.0429 -	accuracy:	0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9760
75/75	[]	- 0	s 3ms/step	o -	loss:	0.0429 -	accuracy:	0.9857 -	val_loss:	0.0676 -	val_accuracy:	0.9760
	1057/1500	- 0	s 3ms/step	o -	loss:	0.0429 -	accuracy:	0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9760
Epoch	1058/1500 []											
Epoch	1059/1500											
	[=======] 1060/1500	- 0	s 3ms/step	- 0	loss:	0.0429 -	accuracy:	0.9853 -	val_loss:	0.0674 -	val_accuracy:	0.9773
,	[=======] 1061/1500	- 0	s 3ms/step	o -	loss:	0.0428 -	accuracy:	0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9760
75/75	[]	- 0	s 3ms/step	o -	loss:	0.0429 -	accuracy:	0.9853 -	val_loss:	0.0675 -	val_accuracy:	0.9760
	1062/1500 []	- 0	s 3ms/step	o -	loss:	0.0428 -	accuracy:	0.9857 -	val_loss:	0.0674 -	val_accuracy:	0.9773
	1063/1500	- 6	s 3ms/ster	n -	loss:	0.0428 -	accuracy:	0.9857 -	val loss:	0.0674 -	val accuracy:	0.9773
Epoch	1064/1500						-		_			
	[========] 1065/1500	- 6	s 3ms/step	o -	loss:	0.0428 -	accuracy:	0.9857 -	val_loss:	0.06/4 -	val_accuracy:	0.97/3
	[=======] 1066/1500	- 0	s 3ms/step	o -	loss:	0.0428 -	accuracy:	0.9857 -	val_loss:	0.0675 -	val_accuracy:	0.9760
75/75	[]	- 0	s 3ms/step	o -	loss:	0.0428 -	accuracy:	0.9853 -	val_loss:	0.0675 -	val_accuracy:	0.9760
75/75	1067/1500 []	- 0	s 4ms/step	o -	loss:	0.0427 -	accuracy:	0.9861 -	val_loss:	0.0677 -	val_accuracy:	0.9760
	1068/1500 []	- 0	s 3ms/ster	o -	loss	0.0427 -	accuracy.	0.9857 -	val loss.	0.0673 -	val accuracy:	0.9773
Epoch	1069/1500						-		_			
Epoch	[=======] 1070/1500											
	[=======] 1071/1500	- 0	s 3ms/step	o -	loss:	0.0427 -	accuracy:	0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9760
75/75	[]	- 0	s 4ms/step	o -	loss:	0.0427 -	accuracy:	0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9760
75/75	1072/1500 []	- 0	s 3ms/step	o -	loss:	0.0427 -	accuracy:	0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9760
Epoch	1073/1500 []											
Epoch	1074/1500											
Epoch	[=======] 1075/1500											
	[=======] 1076/1500	- 0	s 3ms/step	o -	loss:	0.0427 -	accuracy:	0.9861 -	val_loss:	0.0675 -	val_accuracy:	0.9773
75/75	[======]	- 0	s 3ms/step	o -	loss:	0.0426 -	accuracy:	0.9865 -	val_loss:	0.0677 -	val_accuracy:	0.9760
75/75	1077/1500 []	- 0	s 3ms/step	o -	loss:	0.0426 -	accuracy:	0.9857 -	val_loss:	0.0676 -	val_accuracy:	0.9773
Epoch	1078/1500 []											
Epoch	1079/1500						-		_			
Epoch	[=======] 1080/1500											
75/75	[=======] 1081/1500	- 0	s 4ms/step	o -	loss:	0.0426 -	accuracy:	0.9865 -	val_loss:	0.0676 -	val_accuracy:	0.9773
75/75	[]	- 0	s 3ms/step	o -	loss:	0.0427 -	accuracy:	0.9861 -	val_loss:	0.0677 -	val_accuracy:	0.9760
75/75	1082/1500 [=======]	- 0	s 3ms/step	o -	loss:	0.0425 -	accuracy:	0.9861 -	val_loss:	0.0678 -	val_accuracy:	0.9760
Epoch	1083/1500 []											
Epoch	1084/1500											
Epoch	[=======] 1085/1500						-		_			
75/75	[=======] 1086/1500	- 0	s 3ms/step	o -	loss:	0.0426 -	accuracy:	0.9861 -	val_loss:	0.0677 -	val_accuracy:	0.9760
75/75	[======]	- 0	s 4ms/step	o -	loss:	0.0425 -	accuracy:	0.9865 -	val_loss:	0.0677 -	val_accuracy:	0.9760
75/75	1087/1500 []	- 0	s 4ms/step	o -	loss:	0.0425 -	accuracy:	0.9865 -	val_loss:	0.0677 -	val_accuracy:	0.9760
Epoch	1088/1500 []											
. 2/ /2		- 6	1113/318	-		J.U+43 -	uccuracy:	J. JOUL -	1022;	J.00/0 -	.uuccurdcy:	0.2//3

Epoch	1089/1500										
	[======] 1090/1500	-	0s	3ms/step	loss:	0.0425 - accu	racy: 0.9861 -	val_loss:	0.0677 -	val_accuracy:	0.9760
	[]	-	0s	4ms/step	loss:	0.0425 - accu	racy: 0.9857 -	val_loss:	0.0677 -	val_accuracy:	0.9760
Epoch	1091/1500										
	[========] 1092/1500	-	05	Sms/step -	- 10SS:	0.0425 - accu	racy: 0.9861 -	val_loss:	0.0680 -	vai_accuracy:	0.9760
75/75	[]	-	0s	4ms/step	loss:	0.0425 - accu	ıracy: 0.9861 -	val_loss:	0.0678 -	val_accuracy:	0.9760
	1093/1500 []	_	0s	5ms/step	loss:	0.0425 - accu	racy: 0.9861 -	val loss:	0.0676 -	val accuracy:	0.9773
Epoch	1094/1500										
	[=========] 1095/1500	-	0s	4ms/step	- loss:	0.0425 - accu	racy: 0.9865 -	val_loss:	0.0678 -	val_accuracy:	0.9760
75/75	[]	-	0s	4ms/step	- loss:	0.0425 - accu	racy: 0.9861 -	val_loss:	0.0677 -	val_accuracy:	0.9760
	1096/1500 []	-	95	3ms/sten	- loss:	0.0424 - accui	racv: 0.9853 -	val loss:	0.0678 -	val accuracy:	0.9760
Epoch	1097/1500						-	_			
	[========] 1098/1500	-	0s	4ms/step	- loss:	0.0424 - accu	racy: 0.9861 -	val_loss:	0.0678 -	val_accuracy:	0.9760
75/75	[======]	-	0s	5ms/step -	- loss:	0.0425 - accu	racy: 0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9773
	1099/1500 []	_	95	4ms/sten	- loss:	0.0423 - accui	racv: 0.9857 -	val loss:	0.0679 -	val accuracy:	0.9760
Epoch	1100/1500										
	[========] 1101/1500	-	0s	5ms/step	loss:	0.0424 - accu	ıracy: 0.9865 -	val_loss:	0.0677 -	val_accuracy:	0.9773
	[]	-	0s	4ms/step	loss:	0.0424 - accu	racy: 0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9773
	1102/1500 []		ac	Emc/ston	1000	0.0422 20011	macv: 0 0961	val loce:	0 0677	val accumacy:	0 0772
	1103/1500		03	эшэ/ эсер	1033.	0.0425 - accu	. acy. 0.5001	V01_1033.	0.0077	vai_accuracy.	0.5775
	[========] 1104/1500	-	0s	3ms/step	loss:	0.0423 - accu	ıracy: 0.9865 -	val_loss:	0.0678 -	val_accuracy:	0.9760
	[]	-	0s	3ms/step	loss:	0.0423 - accu	racy: 0.9861 -	val_loss:	0.0676 -	val_accuracy:	0.9773
	1105/1500 []		ac	2mc/ston	1000	0.0422 20011	macv: 0 0961	val loce:	0 0677	val accumacy:	0 0772
	1106/1500		05	oms/scep	1055.	0.0423 - accu	11 acy. 0.3001 -	vai_1055.	0.00// -	vai_accuracy.	0.5775
	[=======] 1107/1500	-	0s	3ms/step	- loss:	0.0423 - accu	racy: 0.9861 -	val_loss:	0.0677 -	val_accuracy:	0.9773
75/75	[======]	-	0s	3ms/step	- loss:	0.0422 - accu	racy: 0.9865 -	val_loss:	0.0680 -	val_accuracy:	0.9760
Epoch	1108/1500 []										
Epoch	1109/1500										
75/75	[]	-	0s	3ms/step	loss:	0.0423 - accu	ıracy: 0.9861 -	val_loss:	0.0678 -	val_accuracy:	0.9773
	1110/1500 [========]	-	0s	3ms/step	loss:	0.0423 - accu	racy: 0.9861 -	val_loss:	0.0678 -	val_accuracy:	0.9773
	1111/1500 []		ac	2mc/ston	1000	0.0422 2000	macv: 0 0957	val loce:	0 0677	val accumacy:	0 0772
	1112/1500		05	oms/scep	1055.	0.0422 - accu	11 acy. 0.3637 -	vai_1055.	0.00// -	vai_accuracy.	0.5775
	[======] 1113/1500	-	0s	3ms/step	- loss:	0.0423 - accu	racy: 0.9861 -	val_loss:	0.0677 -	val_accuracy:	0.9773
	[]	-	0s	3ms/step	loss:	0.0422 - accu	racy: 0.9861 -	val_loss:	0.0679 -	val_accuracy:	0.9760
	1114/1500		ac	2mc/ston	1000	0.0422 2000	macv: 0 0961	val loce:	0 0677	val accupacy:	0 0772
	[========] 1115/1500	-	05	oms/step	- 1055:	0.0422 - accui	iracy: 0.9661 -	Va1_1055:	0.00// -	vai_accuracy:	0.9773
	[=========]	-	0s	3ms/step	loss:	0.0423 - accu	racy: 0.9861 -	val_loss:	0.0678 -	val_accuracy:	0.9773
	1116/1500 []	-	0s	3ms/step	- loss:	0.0422 - accu	racy: 0.9857 -	val_loss:	0.0680 -	val_accuracy:	0.9773
	1117/1500		0-	2ms/stan	10001	0.0422	0 0057	wal lass.	0.0670		0.0773
	[========] 1118/1500	-	05	oms/step	- 1055:	0.0422 - accui	iracy: 0.9657 -	Va1_1055:	0.00/6 -	vai_accuracy:	0.9773
	[]	-	0s	3ms/step -	loss:	0.0422 - accu	racy: 0.9861 -	val_loss:	0.0679 -	val_accuracy:	0.9773
	1119/1500 []	-	0s	3ms/step	loss:	0.0421 - accu	racy: 0.9857 -	val_loss:	0.0679 -	val_accuracy:	0.9773
	1120/1500		0-	2ms/stan	10001	0.0422	0 0061	wal lass.	0.0070		0.0773
	[========] 1121/1500	-	05	oms/step	- 1055:	0.0422 - accui	iracy: 0.9661 -	Va1_1055:	0.00/9 -	vai_accuracy:	0.9773
	[]	-	0s	3ms/step	loss:	0.0421 - accu	racy: 0.9861 -	val_loss:	0.0678 -	val_accuracy:	0.9773
	1122/1500 []	-	0s	3ms/step	loss:	0.0422 - accu	racy: 0.9861 -	val_loss:	0.0679 -	val_accuracy:	0.9773
	1123/1500 []		ac	2mc/ston	1000	0.0421 2000	macv: 0 0957	val loce:	0 0601	val accumacy:	0.0760
	1124/1500										
75/75 Enoch	[======] 1125/1500	-	0s	3ms/step	- loss:	0.0421 - accu	racy: 0.9861 -	val_loss:	0.0681 -	val_accuracy:	0.9760
	[]	-	0s	3ms/step	loss:	0.0421 - accu	racy: 0.9861 -	val_loss:	0.0681 -	val_accuracy:	0.9760
	1126/1500 []		ac	2mc/ston	1000	0.0421 2000	macv: 0 0957	val loce:	0 0670	val accumacy:	0 0772
Epoch	1127/1500										
	[========] 1128/1500	-	0s	3ms/step	- loss:	0.0420 - accu	racy: 0.9865 -	val_loss:	0.0680 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step	loss:	0.0421 - accu	racy: 0.9861 -	val_loss:	0.0681 -	val_accuracy:	0.9760
	1129/1500 []	_	as	3ms/sten	- loss	0 0421 - acciii	racv: 0 9865 -	val loss:	0 0681 -	val accuracy:	0 9760
Epoch	1130/1500						-	_			
	[========] 1131/1500	-	0s	3ms/step	- loss:	0.0421 - accu	racy: 0.9861 -	val_loss:	0.0680 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step	loss:	0.0420 - accu	ıracy: 0.9865 -	val_loss:	0.0682 -	val_accuracy:	0.9760
	1132/1500 []		٩c	3ms/sten	.]nee.	0.0420 - 2000	racv: 0 0861	val loss.	0.0680	val accuracy:	0.9772
Epoch	1133/1500										
	[========] 1134/1500	-	0s	3ms/step	- loss:	0.0420 - accu	racy: 0.9861 -	val_loss:	0.0679 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step -	- loss:	0.0420 - accu	racy: 0.9861 -	val_loss:	0.0678 -	val_accuracy:	0.9773
	1135/1500 []	_	0s	3ms/step	- loss:	0.0420 - accu	racv: 0.9865 -	val loss:	0.0679 -	val accuracy:	0.9773
Epoch	1136/1500										
	[========] 1137/1500	-	Øs.	∃ms/step -	- loss:	0.0420 - accu	ıracy: 0.9861 -	val_loss:	0.0679 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step	loss:	0.0419 - accu	racy: 0.9857 -	val_loss:	0.0677 -	val_accuracy:	0.9773
	1138/1500 []	_	0.5	3ms/sten	- loss:	0.0420 - accus	racy: 0.9861 -	val loss.	0.0678 -	val accuracy:	0.9773
Epoch	1139/1500						-	_			
	[========] 1140/1500	-	US	≾ms/step ⋅	- loss:	v.⊎420 - accu	ıracy: 0.9861 -	vai_loss:	u.u679 -	val_accuracy:	v.9773
75/75	[]	-	0s	3ms/step	loss:	0.0419 - accu	ıracy: 0.9861 -	val_loss:	0.0681 -	val_accuracy:	0.9760
	1141/1500 []	-	0s	3ms/step	· loss:	0.0420 - accu	racy: 0.9861 -	val_loss:	0.0680 -	val_accuracy:	0.9773
Epoch	1142/1500										
	[========] 1143/1500	-	US	≾ms/step ⋅	- loss:	⊌.⊎419 - accu	ıracy: 0.9865 -	vai_loss:	u.u680 -	val_accuracy:	v.9773
75/75	[]	-	0s	3ms/step	loss:	0.0419 - accu	ıracy: 0.9865 -	val_loss:	0.0679 -	val_accuracy:	0.9773
	1144/1500 []	_	0s	4ms/sten	· loss·	0.0419 - accum	racy: 0.9857 -	val loss:	0.0679 -	val_accuracv	0.9785
Epoch	1145/1500						-	_			
	[========] 1146/1500	-	US	4ms/step	- loss:	ช.ช419 - accu	ıracy: 0.9865 -	vai_loss:	u.u680 -	val_accuracy:	v.9773
75/75	[======]	-	0s	4ms/step	loss:	0.0418 - accu	racy: 0.9857 -	val_loss:	0.0680 -	val_accuracy:	0.9773
	1147/1500 []	_	٥<	3ms/sten	· loss·	0.0418 - accus	racv: 0.9865 -	val loss.	0.0682 -	val accuracy:	0.9773
Epoch	1148/1500										
	[======] 1149/1500	-	0s	5ms/step	loss:	0.0419 - accu	iracy: 0.9865 -	val_loss:	0.0681 -	val_accuracy:	0.9773
75/75	[]	-	0s	4ms/step	loss:	0.0418 - accu	ıracy: 0.9870 -	val_loss:	0.0679 -	val_accuracy:	0.9785
	1150/1500 []	_	0.5	4ms/sten	- loss:	0.0418 - accus	racy: 0.9857 -	val loss.	0.0681 -	val accuracy:	0.9773
Epoch	1151/1500										
	[========] 1152/1500	-	Øs.	5ms/step	- loss:	0.0418 - accu	ıracy: 0.9865 -	val_loss:	0.0684 -	val_accuracy:	0.9760
	[======]	-	0s	4ms/step	loss:	0.0418 - accu	racy: 0.9865 -	val_loss:	0.0681 -	val_accuracy:	0.9773

Epoch	1153/1500										
	[======] 1154/1500	-	0s	5ms/step -	loss:	0.0418 - accuracy	: 0.9861 -	val_loss:	0.0682 -	val_accuracy:	0.9773
	[=========]	_	0s	6ms/step -	loss:	0.0418 - accuracy	: 0.9861	val_loss:	0.0687 -	val_accuracy:	0.9760
	1155/1500		0.0	Ame (etem	1000.	0.0410	. 0 0001	- wal lass.	0.000		0.0760
	[========] 1156/1500	-	05	4ms/step -	- 1055:	0.0418 - accuracy	: 0.9861 -	· vai_ioss:	0.0685 -	vai_accuracy:	0.9760
75/75	[]	-	0s	4ms/step -	loss:	0.0417 - accuracy	: 0.9861	val_loss:	0.0681 -	val_accuracy:	0.9773
	1157/1500 []	_	0s	5ms/step -	loss:	0.0417 - accuracy	: 0.9865 -	- val loss:	0.0690 -	val accuracy:	0.9760
Epoch	1158/1500										
	[======] 1159/1500	-	0s	4ms/step -	- loss:	0.0418 - accuracy	: 0.9865 -	· val_loss:	0.0685 -	val_accuracy:	0.9773
75/75	[]	-	0s	4ms/step -	- loss:	0.0417 - accuracy	: 0.9870 -	val_loss:	0.0685 -	val_accuracy:	0.9760
	1160/1500 []	_	95	3ms/sten -	- loss:	0.0417 - accuracy	: 0.9861 ·	val loss:	0.0684 -	val accuracy:	0.9773
Epoch	1161/1500					•		_			
	[=======] 1162/1500	-	0s	3ms/step -	- loss:	0.0417 - accuracy	: 0.9861 -	· val_loss:	0.0683 -	val_accuracy:	0.9773
75/75	[=======]	-	0s	3ms/step -	loss:	0.0418 - accuracy	: 0.9861	val_loss:	0.0682 -	val_accuracy:	0.9773
	1163/1500 []		ac	2mc/cton	1000	0 0417 accuracy	. 0 0057	val loce:	0 0000	val accumacy:	0.705
	1164/1500		05	Jiis/step -	1055.	0.0417 - accuracy	. 0.3637	· vai_1055.	0.0082 -	vai_accuracy.	0.5765
75/75	[]	-	0s	3ms/step -	loss:	0.0417 - accuracy	: 0.9870 -	val_loss:	0.0684 -	val_accuracy:	0.9773
	1165/1500 []	_	0s	3ms/step -	- loss:	0.0417 - accuracy	: 0.9861 -	- val_loss:	0.0684 -	val_accuracy:	0.9773
Epoch	1166/1500										
	[=========] 1167/1500	-	0s	3ms/step -	- loss:	0.0416 - accuracy	: 0.9865	· val_loss:	0.0684 -	val_accuracy:	0.97/3
75/75	[]	-	0s	3ms/step -	loss:	0.0416 - accuracy	: 0.9861 -	val_loss:	0.0686 -	val_accuracy:	0.9760
	1168/1500 []	_	as	3ms/sten -	- loss	0 0417 - accuracy	· a 9865 -	val loss.	0 0686 -	val accuracy:	0 9773
Epoch	1169/1500					•		_			
	[=======] 1170/1500	-	0s	3ms/step -	loss:	0.0416 - accuracy	: 0.9870 -	· val_loss:	0.0696 -	val_accuracy:	0.9760
	[]	-	0s	3ms/step -	loss:	0.0419 - accuracy	: 0.9861	val_loss:	0.0689 -	val_accuracy:	0.9760
	1171/1500 []		0.0	2ms /ston	1	0.0417	. 0 0001	wal lass.	0.000		0.0760
	1172/1500	-	05	Jiis/step -	1055.	0.0417 - accuracy	. 0.3801	· vai_1055.	0.0000 -	vai_accuracy.	0.5700
75/75	[]	-	0s	3ms/step -	loss:	0.0416 - accuracy	: 0.9861 -	val_loss:	0.0684 -	val_accuracy:	0.9773
75/75	1173/1500 [=======]	-	0s	3ms/step -	loss:	0.0416 - accuracy	: 0.9865	- val_loss:	0.0684 -	val_accuracy:	0.9773
Epoch	1174/1500					•		_			
	[=========] 1175/1500	-	0s	3ms/step -	- loss:	0.0416 - accuracy	: 0.9865	· val_loss:	0.0685 -	val_accuracy:	0.97/3
75/75	[]	-	0s	3ms/step -	loss:	0.0416 - accuracy	: 0.9870	val_loss:	0.0685 -	val_accuracy:	0.9773
	1176/1500 []	_	0s	3ms/step -	- loss:	0.0415 - accuracy	: 0.9857 -	- val loss:	0.0683 -	val accuracy:	0.9773
Epoch	1177/1500										
	[=========] 1178/1500	-	0s	3ms/step -	- loss:	0.0415 - accuracy	: 0.9865	· val_loss:	0.0684 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step -	loss:	0.0415 - accuracy	: 0.9865	val_loss:	0.0685 -	val_accuracy:	0.9773
	1179/1500 []	_	as	4ms/sten -	- loss	0 0415 - accuracy	· a 9861 -	val loss.	0 0684 -	val accuracy:	0 9773
Epoch	1180/1500										
	[========] 1181/1500	-	0s	3ms/step -	- loss:	0.0415 - accuracy	: 0.9861 -	· val_loss:	0.0683 -	val_accuracy:	0.9773
	[]	-	0s	3ms/step -	loss:	0.0415 - accuracy	: 0.9861	val_loss:	0.0684 -	val_accuracy:	0.9773
	1182/1500 []		ac	2mc/cton	1000	0 041E accuracy	. a 007a	val loce:	0 0000	val accumacy:	0 0772
	1183/1500	-	05	Jiis/step -	1055.	0.0413 - accuracy	. 0.3670	· vai_1055.	0.0003 -	vai_accuracy.	0.5775
	[]	-	0s	3ms/step -	loss:	0.0414 - accuracy	: 0.9865	val_loss:	0.0684 -	val_accuracy:	0.9773
	1184/1500 []	_	0s	3ms/step -	loss:	0.0414 - accuracy	: 0.9865	val_loss:	0.0685 -	val_accuracy:	0.9773
	1185/1500		٥-	2		0.0414	. 0 0070		0.0005		0.0773
	[=======] 1186/1500	-	05	3ms/step -	- 1055:	0.0414 - accuracy	: 0.9870	· vai_ioss:	0.0685 -	vai_accuracy:	0.9773
	[]	-	0s	3ms/step -	loss:	0.0414 - accuracy	: 0.9861	val_loss:	0.0685 -	val_accuracy:	0.9773
	1187/1500 []	_	0s	3ms/step -	loss:	0.0414 - accuracy	: 0.9865 -	- val loss:	0.0685 -	val accuracy:	0.9773
Epoch	1188/1500										
75/75 Epoch	[========] 1189/1500	-	0s	3ms/step -	- loss:	0.0414 - accuracy	: 0.9861 -	· val_loss:	0.0684 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	loss:	0.0414 - accuracy	: 0.9865	val_loss:	0.0685 -	val_accuracy:	0.9773
	1190/1500 [========]	_	95	3ms/sten -	- loss:	0.0414 - accuracy	: 0.9865 ·	val loss:	0.0686 -	val accuracy:	0.9773
Epoch	1191/1500										
	[========] 1192/1500	-	0s	3ms/step -	- loss:	0.0414 - accuracy	: 0.9865	· val_loss:	0.0686 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step -	loss:	0.0414 - accuracy	: 0.9865	val_loss:	0.0687 -	val_accuracy:	0.9773
	1193/1500 []	_	as	3ms/sten -	- loss	0 0413 - accuracy	· a 987a -	val loss.	0 0687 -	val accuracy:	0 9760
Epoch	1194/1500					•		_			
	[========] 1195/1500	-	0s	4ms/step -	loss:	0.0413 - accuracy	: 0.9865 -	· val_loss:	0.0689 -	val_accuracy:	0.9760
75/75	[]	-	0s	3ms/step -	loss:	0.0413 - accuracy	: 0.9870	val_loss:	0.0686 -	val_accuracy:	0.9773
Epoch	1196/1500										
Epoch	[========] 1197/1500										
75/75	[]	-	0s	3ms/step -	loss:	0.0413 - accuracy	: 0.9865	val_loss:	0.0686 -	val_accuracy:	0.9773
75/75	1198/1500 [========]	-	0s	3ms/step -	loss:	0.0413 - accuracy	: 0.9865	- val_loss:	0.0686 -	val_accuracy:	0.9773
Epoch	1199/1500										
	[========] 1200/1500	-	۳S	∍ms/step -	- 1088:	0.0412 - accuracy	. 0.9861 ·	. AaT_TO22:	ჟ.ძხგე -	vai_accuracy:	0.9//3
75/75	[======]	-	0s	4ms/step -	loss:	0.0413 - accuracy	: 0.9865	val_loss:	0.0687 -	val_accuracy:	0.9773
	1201/1500 []	_	0s	4ms/step -	loss:	0.0413 - accuracy	: 0.9865	- val_loss:	0.0686 -	val_accuracy:	0.9773
Epoch	1202/1500										
	[========] 1203/1500	-	ØS	4ms/step -	- 10SS:	ช.0413 - accuracy	: 0.9865 -	- val_loss:	U.0686 -	val_accuracy:	0.9773
75/75	[======]	-	0s	5ms/step -	loss:	0.0413 - accuracy	: 0.9861	val_loss:	0.0688 -	val_accuracy:	0.9773
	1204/1500 []	_	05	5ms/sten -	· loss·	0.0413 - accuracy	: 0.9865 -	· val loss:	0.0687 -	val accuracy:	0.9773
Epoch	1205/1500										
	[=======] 1206/1500	-	0s	5ms/step -	loss:	0.0412 - accuracy	: 0.9865 -	· val_loss:	0.0688 -	val_accuracy:	0.9773
75/75	[]	-	0s	5ms/step -	loss:	0.0412 - accuracy	: 0.9861	val_loss:	0.0687 -	val_accuracy:	0.9773
Epoch	1207/1500										
Epoch	[=======] 1208/1500										
75/75	[]	-	0s	4ms/step -	loss:	0.0412 - accuracy	: 0.9865	val_loss:	0.0687 -	val_accuracy:	0.9773
	1209/1500 [========]	-	0s	5ms/step -	loss:	0.0412 - accuracy	: 0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
Epoch	1210/1500										
	[========] 1211/1500	-	۳S	⊶ms/step -	- 1088:	0.0412 - accuracy	. ש.שאוט -	. AaT_TO22:	a.apgg -	vai_accuracy:	0.9//3
75/75	[]	-	0s	4ms/step -	loss:	0.0412 - accuracy	: 0.9865	val_loss:	0.0684 -	val_accuracy:	0.9785
	1212/1500 []	_	0s	4ms/step -	loss:	0.0412 - accuracy	: 0.9865	- val_loss:	0.0685 -	val_accuracy:	0.9785
Epoch	1213/1500										
	[========] 1214/1500	-	ØS	4ms/step -	- 10SS:	v.v412 - accuracy	. 0.9865 ·	- val_loss:	v.0686 -	vai_accuracy:	o.9/73
75/75	[]	-	0s	6ms/step -	loss:	0.0411 - accuracy	: 0.9861	val_loss:	0.0688 -	val_accuracy:	0.9773
	1215/1500 [========]	_	0s	6ms/step -	loss:	0.0411 - accuracy	: 0.9865 -	· val loss:	0.0687 -	val_accuracv:	0.9773
Epoch	1216/1500					•		_			
75/75	[======]	-	0s	5ms/step -	loss:	0.0411 - accuracy	: 0.9865	val_loss:	0.0688 -	val_accuracy:	0.9760

Epoch	1217/1500										
	[=======] 1218/1500	-	0s	4ms/step -	loss:	0.0411 - accuracy	0.9861	- val_loss:	0.0686 -	val_accuracy:	0.9773
	[========]	-	0s	4ms/step -	loss:	0.0411 - accuracy	0.9870	- val_loss:	0.0685 -	val_accuracy:	0.9773
	1219/1500		0.0	Ame (etan	1000.	0.0411	0.0005	- wal lass.	0.000		0.0773
	[========] 1220/1500	-	05	4ms/step -	- 1055:	0.0411 - accuracy	. 0.9865	- vai_ioss:	0.0686 -	vai_accuracy:	0.9773
75/75	[]	-	0s	3ms/step -	loss:	0.0410 - accuracy	0.9870	- val_loss:	0.0686 -	val_accuracy:	0.9773
	1221/1500 []	_	0s	3ms/step -	loss:	0.0410 - accuracy	0.9870	- val loss:	0.0686 -	val accuracy:	0.9773
Epoch	1222/1500										
	[=========] 1223/1500	-	0s	3ms/step -	- loss:	0.0410 - accuracy	: 0.9870 -	- val_loss:	0.0686 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step -	- loss:	0.0411 - accuracy	0.9865	- val_loss:	0.0686 -	val_accuracy:	0.9785
	1224/1500 []	_	0s	3ms/sten -	- loss:	0.0410 - accuracy	. 0.9861	- val loss:	0.0689 -	val accuracy:	0.9773
Epoch	1225/1500					•		_			
	[========] 1226/1500	-	0s	3ms/step -	- loss:	0.0410 - accuracy	: 0.9865	- val_loss:	0.0687 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step -	- loss:	0.0410 - accuracy	0.9865	- val_loss:	0.0686 -	val_accuracy:	0.9773
	1227/1500 []	_	0s	3ms/sten -	- loss:	0.0410 - accuracy	. 0.9865	- val loss:	0.0687 -	val accuracy:	0.9773
Epoch	1228/1500					-		_			
	[========] 1229/1500	-	0s	3ms/step -	loss:	0.0410 - accuracy	0.9865	- val_loss:	0.0687 -	val_accuracy:	0.9773
	[========]	-	0s	3ms/step -	loss:	0.0410 - accuracy	0.9865	- val_loss:	0.0688 -	val_accuracy:	0.9773
	1230/1500 []		ac	2mc/cton	1000	9 9419 accuracy	. a 007a	val loss:	0 0000	val accumacy:	0 0772
	1231/1500		03	эшэ/ эсер	1033.	0.0410 - accuracy	. 0.3070	vai_1033.	0.0000	var_accuracy.	0.5775
	[========] 1232/1500	-	0s	3ms/step -	loss:	0.0410 - accuracy	0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
	[]	-	0s	4ms/step -	loss:	0.0409 - accuracy	0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
	1233/1500 []	_	۵c	3ms/sten	. 1000	0 0400 - accuracy	· a 9865 .	- val loss:	0 0689 -	val accuracy:	0 9760
	1234/1500		03	oms/scep -	1055.	0.0405 - accuracy	. 0.3003	- vai_1055.	0.0009 -	var_accuracy.	0.5700
	[=======] 1235/1500	-	0s	3ms/step -	loss:	0.0409 - accuracy	0.9861	- val_loss:	0.0690 -	val_accuracy:	0.9760
	[=========]	-	0s	3ms/step -	loss:	0.0409 - accuracy	0.9870	- val_loss:	0.0689 -	val_accuracy:	0.9773
Epoch	1236/1500										
Epoch	[=======] 1237/1500										
75/75	[]	-	0s	3ms/step -	loss:	0.0409 - accuracy	0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
	1238/1500 [========]	-	0s	3ms/step -	loss:	0.0409 - accuracy	0.9865	- val_loss:	0.0689 -	val_accuracy:	0.9773
	1239/1500		0.0	2me /etan	1000.	0.0400	0.0005	- wal lass.	0.000		0.0705
	[========] 1240/1500	-	85	oms/step -	- 1055;	0.0409 - accuracy	. 0.9605	- vai_1055:	0.0005 -	vai_accuracy:	0.9765
	[=======]	-	0s	3ms/step -	loss:	0.0409 - accuracy	0.9865	- val_loss:	0.0686 -	val_accuracy:	0.9773
	1241/1500 [========]	-	0s	3ms/step -	loss:	0.0409 - accuracy	0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9773
	1242/1500		٥-	2		0.0407	0.0070		0.000		0.0773
	[========] 1243/1500	-	05	3ms/step -	- 1055:	0.0407 - accuracy	: 0.98/0	- vai_ioss:	0.0688 -	vai_accuracy:	0.9773
	[]	-	0s	3ms/step -	loss:	0.0408 - accuracy	0.9870	- val_loss:	0.0689 -	val_accuracy:	0.9773
	1244/1500 []	_	0s	3ms/step -	loss:	0.0408 - accuracy	0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
Epoch	1245/1500										
	[========] 1246/1500	-	ØS	3ms/step -	- loss:	0.0408 - accuracy	: 0.9861 -	- val_loss:	0.0687 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	loss:	0.0408 - accuracy	0.9870	- val_loss:	0.0686 -	val_accuracy:	0.9785
	1247/1500 []	_	0s	3ms/step -	loss:	0.0408 - accuracy	0.9861	- val loss:	0.0687 -	val accuracy:	0.9773
Epoch	1248/1500										
	[========] 1249/1500	-	ØS.	3ms/step -	- loss:	0.0408 - accuracy	: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	loss:	0.0407 - accuracy	0.9861	- val_loss:	0.0689 -	val_accuracy:	0.9773
	1250/1500 []	_	0s	4ms/step -	loss:	0.0407 - accuracy	0.9870	- val loss:	0.0687 -	val accuracy:	0.9773
Epoch	1251/1500										
	[=======] 1252/1500	-	ØS.	3ms/step -	- loss:	0.0408 - accuracy	: 0.9870	- val_loss:	0.0689 -	val_accuracy:	0.97/3
75/75	[]	-	0s	3ms/step -	loss:	0.0407 - accuracy	0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9785
	1253/1500 []	_	0s	3ms/step -	loss:	0.0407 - accuracy	0.9870	- val loss:	0.0686 -	val accuracy:	0.9773
Epoch	1254/1500										
	[=======] 1255/1500	-	0s	4ms/step -	- loss:	0.0406 - accuracy	: 0.9861 -	- val_loss:	0.0689 -	val_accuracy:	0.9760
	[]	-	0s	3ms/step -	loss:	0.0407 - accuracy	0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
	1256/1500 []	_	0s	4ms/step -	- loss:	0.0407 - accuracy	0.9870	- val loss:	0.0686 -	val accuracy:	0.9773
Epoch	1257/1500					•		_			
	[========] 1258/1500	-	0s	4ms/step -	- loss:	0.0406 - accuracy	: 0.9870 -	- val_loss:	0.0687 -	val_accuracy:	0.9773
75/75	[=======]	-	0s	4ms/step -	loss:	0.0407 - accuracy	0.9865	- val_loss:	0.0686 -	val_accuracy:	0.9785
	1259/1500 []	_	0s	4ms/step -	loss:	0.0406 - accuracy	0.9870	- val loss:	0.0687 -	val_accuracv:	0.9773
Epoch	1260/1500					-		_			
	[========] 1261/1500	-	ØS	ьms/step -	- 10SS:	ช.ช4ช/ - accuracy	: 0.9865 -	- val_loss:	U.0685 -	val_accuracy:	0.9785
75/75	[]	-	0s	4ms/step -	loss:	0.0406 - accuracy	0.9865	- val_loss:	0.0687 -	val_accuracy:	0.9773
	1262/1500 []	_	0s	5ms/step -	loss:	0.0406 - accuracy	0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9773
Epoch	1263/1500					-		_			
	[========] 1264/1500	-	ØS	4ms/step -	- 10SS:	v.0406 - accuracy	. 9.9870 ·	- val_loss:	v.0687 -	vai_accuracy:	o.9/73
75/75	[======]	-	0s	5ms/step -	loss:	0.0405 - accuracy	0.9865	- val_loss:	0.0688 -	val_accuracy:	0.9773
	1265/1500 []	_	0s	4ms/step -	loss:	0.0406 - accuracy	0.9870	- val loss:	0.0686 -	val_accuracv:	0.9773
Epoch	1266/1500										
	[========] 1267/1500	-	ØS	∍ms/step -	- 10SS:	accuracy - co40.	. 0.9861 ·	- val_loss:	v.0689 -	vai_accuracy:	o.9/73
75/75	[]	-	0s	4ms/step -	loss:	0.0405 - accuracy	0.9870	- val_loss:	0.0686 -	val_accuracy:	0.9773
	1268/1500 []	_	0s	5ms/step -	loss:	0.0406 - accuracy	0.9870	- val loss:	0.0687 -	val_accuracv:	0.9773
Epoch	1269/1500										
	[=========] 1270/1500	-	ØS	4ms/step -	- 10SS:	ช.0405 - accuracy	: U.9870 -	- val_loss:	U.0686 -	val_accuracy:	0.9773
75/75	[]	-	0s	4ms/step -	loss:	0.0406 - accuracy	0.9870	- val_loss:	0.0686 -	val_accuracy:	0.9773
	1271/1500 []	_	05	4ms/sten -	· loss·	0.0405 - accuracy	0.9870	- val loss:	0.0686 -	val accuracy:	0.9785
Epoch	1272/1500										
	[=======] 1273/1500	-	0s	3ms/step -	loss:	0.0405 - accuracy	0.9865	- val_loss:	0.0685 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	loss:	0.0404 - accuracy	0.9861	- val_loss:	0.0688 -	val_accuracy:	0.9773
	1274/1500 [========]	_	Qc.	3ms/sten	-]nee-	0.0404 - accuracy	0.9865	- val locc	0.0685	val accuracy:	0.9725
Epoch	1275/1500					•		_			
	[=======] 1276/1500	-	0s	3ms/step -	loss:	0.0405 - accuracy	0.9870	- val_loss:	0.0685 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	loss:	0.0404 - accuracy	0.9865	- val_loss:	0.0686 -	val_accuracy:	0.9773
Epoch	1277/1500 []										
	[======] 1278/1500	-	υS	> step -	1022:	o.o-o accuracy	. 0.50/0	A91_1022;	J. 50005 -	.ur_accuracy:	0.2/05
75/75	[=======] 1279/1500	-	0s	3ms/step -	loss:	0.0405 - accuracy	0.9870	- val_loss:	0.0686 -	val_accuracy:	0.9785
	12/9/1500 [=======]	-	0s	3ms/step -	loss:	0.0404 - accuracy	0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
Epoch	1280/1500										
/5/75	[]	-	Øs	зms/steр -	- loss:	ช.ช4ช4 - accuracy	. U.9870 ·	- val_loss:	0.0686 -	vai_accuracy:	u.9785

	1281/1500		0-	2 (-+	1	0.0404	0 0070		0.000		0.0705
	[========] 1282/1500	-	0s	3ms/step -	- loss:	0.0404 - accuracy	/: 0.9870	- val_loss:	0.0686 -	val_accuracy:	0.9785
	[=======]	-	0s	3ms/step -	- loss:	0.0405 - accuracy	: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9785
	1283/1500 []	_	0s	3ms/step ·	- loss:	0.0404 - accuracy	: 0.9870	- val loss:	0.0687 -	val accuracy:	0.9785
Epoch	1284/1500										
	[========] 1285/1500	-	ØS.	3ms/step -	- loss:	0.0404 - accuracy	/: 0.9865	- val_loss:	0.0689 -	val_accuracy:	0.9//3
75/75	[]	-	0s	3ms/step -	- loss:	0.0403 - accuracy	: 0.9874	<pre>- val_loss:</pre>	0.0689 -	val_accuracy:	0.9773
	1286/1500 []	_	0s	3ms/step ·	- loss:	0.0404 - accuracy	/: 0.9865	- val_loss:	0.0688 -	val_accuracy:	0.9773
Epoch	1287/1500										
	[========] 1288/1500	-	05	3ms/step -	- 1055:	0.0403 - accuracy	7: 0.9874	- vai_ioss:	0.0686 -	vai_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	- loss:	0.0403 - accuracy	: 0.9870	<pre>- val_loss:</pre>	0.0687 -	val_accuracy:	0.9785
	1289/1500 []	_	0s	3ms/step	- loss:	0.0403 - accuracy	: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9773
	1290/1500		0.0	2me /etan	10001	0.0403	0 0074	wal lass.	0.0007		0.0705
	[========] 1291/1500		03	Jiis/step -	- 1055.	0.0403 - accuracy	7. 0.3874	- vai_1055.	0.0087 -	vai_accuracy.	0.5765
	[=========] 1292/1500	-	0s	3ms/step -	- loss:	0.0403 - accuracy	/: 0.9870	- val_loss:	0.0686 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	- loss:	0.0403 - accuracy	: 0.9874	- val_loss:	0.0687 -	val_accuracy:	0.9773
	1293/1500 [========]	_	0s	3ms/step ·	- loss:	0.0402 - accuracy	: 0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
	1294/1500		0-	2 / - 4	1	0.0403	0 0074		0.0500		0.0773
Epoch	[=========] 1295/1500										
	[========] 1296/1500	-	0s	3ms/step -	- loss:	0.0402 - accuracy	/: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9785
75/75	[]	-	0s	4ms/step -	- loss:	0.0402 - accuracy	: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9773
	1297/1500 []	_	0s	3ms/step ·	- loss:	0.0403 - accuracy	: 0.9870	- val loss:	0.0687 -	val accuracy:	0.9785
Epoch	1298/1500										
	[========] 1299/1500	-	05	4ms/step -	- 1055:	0.0402 - accuracy	7: 0.9870	- vai_ioss:	0.0687 -	vai_accuracy:	0.9785
	[] 1300/1500	-	0s	4ms/step -	- loss:	0.0402 - accuracy	: 0.9874	- val_loss:	0.0687 -	val_accuracy:	0.9785
75/75	[]	-	0s	4ms/step -	- loss:	0.0402 - accuracy	: 0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9773
	1301/1500 []	_	0s	3ms/step ·	- loss:	0.0402 - accuracy	/: 0.9870	- val_loss:	0.0688 -	val_accuracv:	0.9785
Epoch	1302/1500 [======]										
	[=======] 1303/1500	-	05	3ms/step -	- 1055:	0.0401 - accuracy	7: 0.9865	- vai_ioss:	0.0689 -	vai_accuracy:	0.97/3
	[========] 1304/1500	-	0s	3ms/step -	- loss:	0.0401 - accuracy	/: 0.9874	- val_loss:	0.0689 -	val_accuracy:	0.9773
75/75	[]	-	0s	3ms/step -	- loss:	0.0402 - accuracy	: 0.9874	- val_loss:	0.0689 -	val_accuracy:	0.9773
	1305/1500 []	_	0s	3ms/step ·	- loss:	0.0401 - accuracy	: 0.9874	- val_loss:	0.0690 -	val_accuracy:	0.9785
Epoch	1306/1500										
	[========] 1307/1500	-	05	3ms/step -	- 1055:	0.0400 - accuracy	7: 0.9861	- vai_ioss:	0.0687 -	vai_accuracy:	0.9785
	[] 1308/1500	-	0s	3ms/step -	- loss:	0.0401 - accuracy	/: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	- loss:	0.0400 - accuracy	/: 0.9865	- val_loss:	0.0691 -	val_accuracy:	0.9785
	1309/1500 []	_	0s	3ms/step ·	- loss:	0.0401 - accuracy	/: 0.9865	- val loss:	0.0688 -	val accuracy:	0.9773
Epoch	1310/1500							_			
	[=========] 1311/1500	-	ØS.	3ms/step -	- loss:	0.0400 - accuracy	/: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9785
	[========] 1312/1500	-	0s	3ms/step -	- loss:	0.0400 - accuracy	/: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	- loss:	0.0401 - accuracy	: 0.9870	- val_loss:	0.0687 -	val_accuracy:	0.9785
	1313/1500 []	_	0s	4ms/step ·	- loss:	0.0401 - accuracy	/: 0.9870	- val loss:	0.0689 -	val accuracy:	0.9785
Epoch	1314/1500										
	[========] 1315/1500	-	05	Sms/step -	- 1055:	0.0400 - accuracy	7: 0.9861	- vai_ioss:	0.0689 -	vai_accuracy:	0.9785
	[========] 1316/1500	-	0s	4ms/step -	- loss:	0.0400 - accuracy	/: 0.9870	- val_loss:	0.0688 -	val_accuracy:	0.9785
75/75	[]	-	0s	4ms/step -	- loss:	0.0401 - accuracy	: 0.9874	- val_loss:	0.0689 -	val_accuracy:	0.9785
	1317/1500 []	_	0s	4ms/step ·	- loss:	0.0400 - accuracy	: 0.9874	- val_loss:	0.0688 -	val_accuracy:	0.9785
	1318/1500 [======]		0=	Fmc/cton	10001	0.0400	0 0074	- ual lass.	0 0700		0.0773
Epoch	1319/1500							_			
	[=========] 1320/1500	-	0s	4ms/step -	- loss:	0.0401 - accuracy	/: 0.9865	- val_loss:	0.0692 -	val_accuracy:	0.9785
75/75	[]	-	0s	4ms/step -	- loss:	0.0400 - accuracy	: 0.9874	- val_loss:	0.0690 -	val_accuracy:	0.9785
	1321/1500 []	_	0s	5ms/step ·	- loss:	0.0400 - accuracy	: 0.9874	- val loss:	0.0690 -	val accuracy:	0.9785
Epoch	1322/1500							_			
	[=========] 1323/1500	-	ØS.	5ms/step -	- loss:	0.0400 - accuracy	/: 0.98/4	- val_loss:	0.0691 -	val_accuracy:	0.9785
	[========] 1324/1500	-	0s	3ms/step -	- loss:	0.0399 - accuracy	: 0.9874	- val_loss:	0.0690 -	val_accuracy:	0.9785
75/75	[]	-	0s	4ms/step -	- loss:	0.0400 - accuracy	: 0.9874	- val_loss:	0.0690 -	val_accuracy:	0.9785
	1325/1500 [========]	_	0.5	4ms/sten ·	- loss:	0.0400 - accuracy	/: 0.9874	- val loss:	0.0689 -	val accuracy:	0.9785
Epoch	1326/1500							_			
	[=========] 1327/1500	-	ØS	эms/steр -	- loss:	ช.ช399 - accuracy	7: 0.9874	- vai_loss:	v.0690 -	vai_accuracy:	υ.9 <i>7</i> 85
75/75	[]	-	0s	4ms/step -	- loss:	0.0399 - accuracy	: 0.9874	- val_loss:	0.0691 -	val_accuracy:	0.9785
75/75	1328/1500 []	-	0s	4ms/step	- loss:	0.0399 - accuracy	: 0.9874	- val_loss:	0.0690 -	val_accuracy:	0.9785
Epoch	1329/1500 [======]										
Epoch	1330/1500										
	[=========] 1331/1500	-	0s	⊰ms/step -	- loss:	0.0398 - accuracy	/: 0.9865	- val_loss:	0.0689 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	- loss:	0.0398 - accuracy	: 0.9874	- val_loss:	0.0690 -	val_accuracy:	0.9798
75/75	1332/1500 [=======]	-	0s	3ms/step ·	- loss:	0.0398 - accuracy	: 0.9874	- val_loss:	0.0691 -	val_accuracy:	0.9785
Epoch	1333/1500 []							_			
Epoch	1334/1500							_			
	[=======] 1335/1500	-	0s	3ms/step -	- loss:	0.0398 - accuracy	/: 0.9870	- val_loss:	0.0690 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step -	- loss:	0.0397 - accuracy	: 0.9874	- val_loss:	0.0690 -	val_accuracy:	0.9785
	1336/1500 []	_	0s	3ms/step	- loss:	0.0398 - accuracy	/: 0.9874	- val_loss:	0.0692 -	val_accuracy:	0.9785
Epoch	1337/1500										
Epoch	[=======] 1338/1500										
75/75	[======] 1339/1500	-	0s	3ms/step -	- loss:	0.0398 - accuracy	: 0.9874	- val_loss:	0.0691 -	val_accuracy:	0.9798
75/75	[]	-	0s	4ms/step -	- loss:	0.0398 - accuracy	: 0.9874	- val_loss:	0.0691 -	val_accuracy:	0.9785
	1340/1500 []	_	0s	3ms/step ·	- loss:	0.0398 - accuracy	/: 0.9874	- val_loss:	0.0691 -	val_accuracv:	0.9785
Epoch	1341/1500							_			
	[=========] 1342/1500	-	Ø\$	₃ms/step -	- loss:	0.0397 - accuracy	/: 0.9874	- val_loss:	0.0690 -	vai_accuracy:	ø.9785
75/75	[=======] 1343/1500	-	0s	3ms/step -	- loss:	0.0397 - accuracy	: 0.9874	- val_loss:	0.0690 -	val_accuracy:	0.9785
75/75	[]	-	0s	3ms/step -	- loss:	0.0397 - accuracy	: 0.9874	- val_loss:	0.0692 -	val_accuracy:	0.9785
	1344/1500 []	_	۵c	3ms/ston	- 1000	0.0397 - accuracy	/: A 987A	- val locc	0.0600	val accuració	0.9700
, , , / 5	J	-	υS	Jacep -	1022;	J. J. J accuracy	. 0.30/0	va1_1055:	- 00000 -	var_accuracy:	0.5/98

Epoch	1345/1500											
	[========]	-	0s	3ms/step	- loss:	0.0397 - acc	curacy: 6	0.9874 -	val_loss:	0.0686 -	val_accuracy:	0.9785
	1346/1500	-	0s	4ms/step	- loss:	0.0398 - acc	curacy: 6	0.9874 -	val_loss:	0.0688 -	val_accuracy:	0.9785
	1347/1500		0.0	2me/etan	10001	0.0307		0.0074	- lass.	0.000		0.700
	[========] 1348/1500	-	05	sms/step -	- 10SS:	0.0397 - acc	curacy: 6	0.9874 -	vai_ioss:	0.0690 -	vai_accuracy:	0.9798
	[=======]	-	0s	3ms/step	- loss:	0.0397 - acc	curacy: 6	0.9874 -	val_loss:	0.0689 -	val_accuracy:	0.9798
	1349/1500 [========]	-	0s	3ms/step	- loss:	0.0396 - acc	curacy: 6	0.9874 -	val_loss:	0.0690 -	val_accuracy:	0.9798
	1350/1500		ac	2mc/ston	1000	0.0207 26	cupacy: (9 0074	val loce:	0 0601	val accuracy:	0.700
Epoch	[=======] 1351/1500											
	[======] 1352/1500	-	0s	3ms/step	- loss:	0.0397 - acc	curacy: (0.9874 -	val_loss:	0.0691 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step	- loss:	0.0396 - acc	curacy: 6	0.9874 -	val_loss:	0.0691 -	val_accuracy:	0.9798
	1353/1500	_	95	3ms/sten	- loss:	0.0396 - acc	curacy: 6	9.9874 -	val loss:	0.0691 -	val accuracy:	0.9798
Epoch	1354/1500											
	[=======] 1355/1500	-	ØS.	3ms/step	- loss:	0.0396 - acc	curacy: 6	0.98/4 -	val_loss:	0.0691 -	val_accuracy:	0.9798
	[=======] 1356/1500	-	0s	3ms/step	- loss:	0.0396 - acc	curacy: 6	0.9874 -	val_loss:	0.0692 -	val_accuracy:	0.9798
75/75	[======]	-	0s	3ms/step	- loss:	0.0396 - acc	curacy: 6	0.9874 -	val_loss:	0.0691 -	val_accuracy:	0.9798
	1357/1500	_	0s	3ms/step	- loss:	0.0394 - acc	curacy: 6	0.9874 -	val loss:	0.0692 -	val accuracy:	0.9798
Epoch	1358/1500											
	[=======] 1359/1500	-	05	sms/step -	- 10SS:	0.0395 - acc	curacy: 6	0.9874 -	vai_ioss:	0.0691 -	vai_accuracy:	0.9798
	[======] 1360/1500	-	0s	3ms/step	- loss:	0.0396 - acc	curacy: 6	0.9874 -	val_loss:	0.0692 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step	- loss:	0.0395 - acc	curacy: 6	0.9874 -	val_loss:	0.0691 -	val_accuracy:	0.9798
	1361/1500	_	0s	3ms/step	- loss:	0.0395 - acc	curacy: 6	0.9874 -	val_loss:	0.0690 -	val_accuracy:	0.9798
	1362/1500		ac	2mc/ston	1000	0 0205 26	cupacy: (0 0074	val loce:	0.000	val accumacy:	0 0700
Epoch	1363/1500											
	[=======] 1364/1500	-	0s	3ms/step	- loss:	0.0395 - acc	curacy: 6	0.9874 -	val_loss:	0.0691 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step	- loss:	0.0395 - acc	curacy: (0.9874 -	val_loss:	0.0690 -	val_accuracy:	0.9798
	1365/1500 [========]	-	0s	3ms/step	- loss:	0.0394 - acc	curacy: 6	0.9874 -	val_loss:	0.0692 -	val_accuracy:	0.9798
	1366/1500	_	ac	3ms/stan	- 1000	0 0395 - 200	curacy: 6	9 9874 -	val loss:	0 0694 -	val accuracy:	0 9785
Epoch	1367/1500											
	[=======] 1368/1500	-	0s	3ms/step	- loss:	0.0395 - acc	curacy: 6	0.9874 -	val_loss:	0.0692 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step	- loss:	0.0394 - acc	curacy: 6	0.9874 -	val_loss:	0.0692 -	val_accuracy:	0.9798
75/75	1369/1500 [=======]	-	0s	3ms/step	- loss:	0.0395 - acc	curacy: 6	0.9874 -	val_loss:	0.0692 -	val_accuracy:	0.9798
	1370/1500	_	as	Ams/sten	- loss.	0 0395 - acc	curacy: 6	9 9874 -	val loss:	0 0694 -	val accuracy:	0 9798
Epoch	1371/1500											
	[========] 1372/1500	-	0s	4ms/step	- loss:	0.0394 - acc	curacy: 6	0.9874 -	val_loss:	0.0691 -	val_accuracy:	0.9798
	[========]	-	0s	4ms/step	- loss:	0.0393 - acc	curacy: 6	0.9874 -	val_loss:	0.0690 -	val_accuracy:	0.9798
	1373/1500 []	-	0s	3ms/step	- loss:	0.0394 - acc	curacy: 6	0.9874 -	val_loss:	0.0691 -	val_accuracy:	0.9798
	1374/1500	_	95	4ms/sten	- loss:	0.0394 - acc	curacy: 6	a.9874 -	val loss:	0.0692 -	val accuracy:	0.9798
Epoch	1375/1500											
	[=======] 1376/1500	-	ØS.	5ms/step	- loss:	0.0395 - acc	curacy: 6	0.98/4 -	val_loss:	0.0692 -	val_accuracy:	0.9798
	[=======] 1377/1500	-	0s	6ms/step	- loss:	0.0394 - acc	curacy: 6	0.9874 -	val_loss:	0.0691 -	val_accuracy:	0.9798
75/75	[]	-	0s	4ms/step	- loss:	0.0394 - acc	curacy: 0	0.9874 -	val_loss:	0.0693 -	val_accuracy:	0.9798
	1378/1500	_	0s	4ms/step	- loss:	0.0393 - acc	curacy: 6	0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
	1379/1500	_	ac	Smc/stan .	- 1000	0 0303 - 200	curacy: 6	9 9874 -	val loss:	0 0693 -	val accuracy:	0 9798
Epoch	1380/1500											
75/75 Epoch	[=======] 1381/1500	-	0s	4ms/step	- loss:	0.0394 - acc	curacy: 6	0.9874 -	val_loss:	0.0692 -	val_accuracy:	0.9798
75/75	[=======] 1382/1500	-	0s	4ms/step	- loss:	0.0394 - acc	curacy: 6	0.9874 -	val_loss:	0.0693 -	val_accuracy:	0.9798
75/75	[======]	-	0s	5ms/step	- loss:	0.0393 - acc	curacy: 6	0.9874 -	val_loss:	0.0692 -	val_accuracy:	0.9798
	1383/1500	_	0s	5ms/step	- loss:	0.0393 - acc	curacy: 6	0.9874 -	val loss:	0.0692 -	val accuracy:	0.9798
Epoch	1384/1500											
	[========] 1385/1500	-	ØS.	6ms/step	- loss:	0.0393 - acc	curacy: 6	0.98/4 -	val_loss:	0.0693 -	val_accuracy:	0.9798
	[=======] 1386/1500	-	0s	4ms/step	- loss:	0.0393 - acc	curacy: 6	0.9874 -	val_loss:	0.0693 -	val_accuracy:	0.9798
75/75	[======]	-	0s	4ms/step	- loss:	0.0393 - acc	curacy: 6	0.9874 -	val_loss:	0.0693 -	val_accuracy:	0.9798
	1387/1500	_	0s	3ms/step	- loss:	0.0393 - acc	curacy: 6	0.9874 -	val_loss:	0.0694 -	val_accuracy:	0.9798
Epoch	1388/1500						-		_			
Epoch	[=======] 1389/1500											
	[======] 1390/1500	-	0s	4ms/step	- loss:	0.0393 - acc	curacy: 6	0.9874 -	val_loss:	0.0694 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step	- loss:	0.0392 - acc	curacy: (0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
75/75	1391/1500 [=======]	-	0s	4ms/step	- loss:	0.0392 - acc	curacy: 6	0.9874 -	val_loss:	0.0694 -	val_accuracy:	0.9798
Epoch	1392/1500 []											
Epoch	1393/1500						-		_			
	[=======] 1394/1500	-	0s	3ms/step	- loss:	0.0391 - acc	curacy: 6	0.9874 -	val_loss:	0.0697 -	val_accuracy:	0.9785
75/75	[======]	-	0s	3ms/step	- loss:	0.0392 - acc	curacy: 6	0.9874 -	val_loss:	0.0694 -	val_accuracy:	0.9798
75/75	1395/1500 [=======]	-	0s	4ms/step	- loss:	0.0392 - acc	curacy: 6	0.9874 -	val_loss:	0.0693 -	val_accuracy:	0.9798
	1396/1500	_	as	3ms/sten	- loss.	0 0392 - acc	curacy: 6	9 9874 -	val loss:	0 0694 -	val accuracy:	0 9798
Epoch	1397/1500											
	[========] 1398/1500	-	ØS.	3ms/step	- loss:	0.0392 - acc	curacy: 6	0.98/4 -	val_loss:	0.0695 -	val_accuracy:	0.9798
75/75	[======] 1399/1500	-	0s	3ms/step	- loss:	0.0391 - acc	curacy: (0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step	- loss:	0.0391 - acc	curacy: 6	0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
	1400/1500	_	0s	4ms/sten	- loss:	0.0391 - acc	curacv: 4	0.9874 -	val loss:	0.0694 -	val_accuracv	0.9798
Epoch	1401/1500						-		_			
Epoch	[=======] 1402/1500											
75/75	[=======] 1403/1500	-	0s	3ms/step	- loss:	0.0391 - acc	curacy: (0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step	- loss:	0.0391 - acc	curacy: (0.9874 -	val_loss:	0.0701 -	val_accuracy:	0.9785
	1404/1500	_	0s	4ms/step	- loss:	0.0392 - acc	curacv: 6	0.9874 -	val loss:	0.0697 -	val_accuracv:	0.9798
Epoch	1405/1500											
Epoch	[=======] 1406/1500											
75/75	[=======] 1407/1500	-	0s	3ms/step	- loss:	0.0390 - acc	curacy: 6	0.9874 -	val_loss:	0.0698 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step	- loss:	0.0391 - acc	curacy: (0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
	1408/1500	_	0s	3ms/step	- loss:	0.0391 - acc	curacy: 6	0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
	,						, ,			-	,.	-

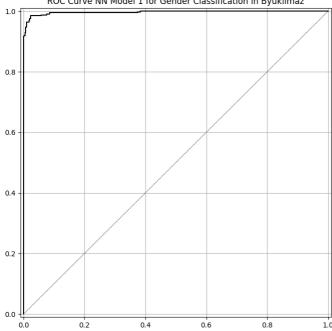
	1409/1500		. 2mc/chon	. 10000	0.0201		0.0074	wal lass.	0.000		0.700
Epoch	1410/1500					-		_			
	[=======] 1411/1500	- 0	s 3ms/step	- loss:	0.0390 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
75/75	[]	- 0	s 3ms/step	- loss:	0.0390 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1412/1500	- 0:	s 3ms/sten	- loss:	0.0391 -	accuracv:	0.9874 -	val loss:	0.0695 -	val accuracy:	0.9798
Epoch	1413/1500										
	[========] 1414/1500	- 6	s ams/step	- 10SS:	0.0390 -	accuracy:	0.9874 -	vai_ioss:	0.0695 -	vai_accuracy:	0.9798
	[=======]	- 0	s 3ms/step	- loss:	0.0390 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1415/1500 [========]	- 0	s 4ms/step	- loss:	0.0390 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1416/1500	0	- Emc/stor	1000	0 0200	accupacy:	0 0074	val loss:	0 0606	val accumacy:	0.700
Epoch	1417/1500					-		_			
	[=======] 1418/1500	- 0	s 4ms/step	- loss:	0.0390 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
75/75	[]	- 0	s 3ms/step	- loss:	0.0390 -	accuracy:	0.9874 -	val_loss:	0.0697 -	val_accuracy:	0.9798
	1419/1500	- 0:	s 3ms/step	- loss:	0.0389 -	accuracy:	0.9870 -	val loss:	0.0695 -	val accuracy:	0.9798
Epoch	1420/1500										
	[========] 1421/1500	- 0:	s 4ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	[========]	- 0	s 3ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1422/1500 [========]	- 0	s 4ms/step	- loss:	0.0390 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1423/1500	- a	s 4ms/sten	- loss	a a389 -	accuracy.	0 9874 -	val loss.	0 0696 -	val accuracy:	0 9798
Epoch	1424/1500										
	[======] 1425/1500	- 0	s 3ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val_loss:	0.0698 -	val_accuracy:	0.9798
75/75	[]	- 0	s 4ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1426/1500	- 0:	s 5ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val loss:	0.0697 -	val accuracy:	0.9798
	1427/1500				0.0200		0.0074	- ual lasse	0.007		0.700
	[========] 1428/1500	- 6:	s sms/step	- 1055:	0.0369 -	accuracy:	0.9674 -	Va1_1055:	0.0097 -	vai_accuracy:	0.9798
	[=======]	- 0	s 4ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
	1429/1500 [========]	- 0	s 5ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1430/1500	- a	. Ame/ston	- 1055	0 0388 -	accuracy:	0 9874 -	val loss:	0 0695 -	val accuracy:	0 9798
Epoch	1431/1500					-		_			
	[========] 1432/1500	- 0:	s 4ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val_loss:	0.0702 -	val_accuracy:	0.9785
75/75	[]	- 0	s 4ms/step	- loss:	0.0390 -	accuracy:	0.9874 -	val_loss:	0.0701 -	val_accuracy:	0.9785
	1433/1500	- 0:	s 5ms/step	- loss:	0.0389 -	accuracy:	0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
Epoch	1434/1500										
	[========] 1435/1500	- 6	s ams/step	- 10SS:	0.0388 -	accuracy:	0.9874 -	vai_ioss:	0.0694 -	vai_accuracy:	0.9798
	[======] 1436/1500	- 0	s 5ms/step	- loss:	0.0388 -	accuracy:	0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
75/75	[]	- 0	s 4ms/step	- loss:	0.0388 -	accuracy:	0.9874 -	val_loss:	0.0697 -	val_accuracy:	0.9798
	1437/1500	- 0:	s 4ms/sten	- loss:	0.0387 -	accuracv:	0.9874 -	val loss:	0.0695 -	val accuracy:	0.9798
Epoch	1438/1500										
	[========] 1439/1500	- 0:	s 4ms/step	- loss:	0.0387 -	accuracy:	0.9874 -	val_loss:	0.0697 -	val_accuracy:	0.9798
75/75	[]	- 0	s 4ms/step	- loss:	0.0387 -	accuracy:	0.9874 -	val_loss:	0.0695 -	val_accuracy:	0.9798
	1440/1500 [========]	- 0:	s 5ms/step	- loss:	0.0388 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1441/1500	0	- 2mc/c+on	1000	0 0207	2001112011	0 0074	val loss:	0 0600	val accumacy:	0.700
Epoch	1442/1500										
	[======] 1443/1500	- 0	s 3ms/step	- loss:	0.0387 -	accuracy:	0.9870 -	val_loss:	0.0695 -	val_accuracy:	0.9798
75/75	[======]	- 0	s 4ms/step	- loss:	0.0388 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
	1444/1500	- 0:	s 4ms/step	- loss:	0.0388 -	accuracy:	0.9874 -	val loss:	0.0695 -	val_accuracy:	0.9798
Epoch	1445/1500										
	[========] 1446/1500	- 6:	s 4ms/step	- 1055:	0.0307 -	accuracy:	0.9674 -	Va1_1055:	0.0095 -	vai_accuracy:	0.9798
	[======] 1447/1500	- 0	s 4ms/step	- loss:	0.0387 -	accuracy:	0.9874 -	val_loss:	0.0696 -	val_accuracy:	0.9798
75/75	[]	- 0	s 4ms/step	- loss:	0.0386 -	accuracy:	0.9874 -		0.0703		
	1448/1500							vai_ioss:	0.0/03 -	val_accuracy:	
Epoch		- 0	s 3ms/sten	- loss:	0.0389 -	accuracy:	0.9874 -	_			0.9785
75/75	1449/1500					-		val_loss:	0.0701 -	val_accuracy:	0.9785 0.9798
Epoch	1449/1500 [=======]					-		val_loss:	0.0701 -	val_accuracy:	0.9785 0.9798
75/75	1449/1500 [] 1450/1500 []	- 0	s 4ms/step	- loss:	0.0388 -	accuracy:	0.9874 -	val_loss:	0.0701 - 0.0698 -	val_accuracy:	0.9785 0.9798 0.9798
75/75 Epoch	1449/1500 [=======] 1450/1500	- 0: - 0:	s 4ms/step	- loss:	0.0388 - 0.0386 -	accuracy:	0.9874 - 0.9874 -	val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 -	val_accuracy: val_accuracy: val_accuracy:	0.9785 0.9798 0.9798 0.9798
75/75 Epoch 75/75 Epoch	1449/1500 [] 1459/1500 [] 1451/1500 [] 1451/1500 [] 1452/1500	- 0: - 0: - 0:	s 4ms/step s 3ms/step s 3ms/step	- loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 -	accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 -	val_loss: val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 -	<pre>val_accuracy: val_accuracy: val_accuracy:</pre>	0.9785 0.9798 0.9798 0.9798 0.9798
75/75 Epoch 75/75 Epoch 75/75 Epoch	1449/1500 [] 1459/1500 [] 1451/1500 [] 1452/1500 [] 1453/1500	- 0: - 0: - 0:	s 4ms/step s 3ms/step s 3ms/step s 4ms/step	- loss: - loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 -	accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 -	val_loss: val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 - 0.0698 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	1449/1500 [] 1459/1500 [] 1451/1500 [] 1452/1500 [] 1452/1500 []	- 0: - 0: - 0:	s 4ms/step s 3ms/step s 3ms/step s 4ms/step	- loss: - loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 -	accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 -	val_loss: val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 - 0.0698 -	<pre>val_accuracy: val_accuracy: val_accuracy: val_accuracy:</pre>	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	1449/1500 [] 1450/1500 [] 1451/1500 [] 1452/1500 [] 1453/1500 [] 1453/1500 []	- 0: - 0: - 0: - 0:	s 4ms/step s 3ms/step s 3ms/step s 4ms/step s 3ms/step	- loss: - loss: - loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 -	accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 - 0.9874 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 - 0.0698 - 0.0694 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	1449/1500 [] 1459/1500 [] 1452/1500 [] 1452/1500 [] 1453/1500 [] 1454/1500 []	- 0: - 0: - 0: - 0:	s 4ms/step s 3ms/step s 3ms/step s 4ms/step s 3ms/step s 3ms/step	- loss: - loss: - loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 - 0.0387 -	accuracy: accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 - 0.0698 - 0.0694 - 0.0696 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	1449/1500 [- 0: - 0: - 0: - 0: - 0:	s 4ms/step s 3ms/step s 3ms/step s 4ms/step s 3ms/step s 3ms/step	- loss: - loss: - loss: - loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 - 0.0387 - 0.0387 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 - 0.0698 - 0.0694 - 0.0696 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	1449/1500 [- 0: - 0: - 0: - 0: - 0:	s 4ms/step s 3ms/step s 3ms/step s 4ms/step s 3ms/step s 3ms/step	- loss: - loss: - loss: - loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 - 0.0387 - 0.0387 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 - 0.0698 - 0.0694 - 0.0696 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798
75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75	1449/1500 [- 0: - 0: - 0: - 0: - 0: - 0:	s 4ms/steps 3ms/steps 4ms/steps 4ms/steps 3ms/steps 3ms/steps 3ms/steps 3ms/steps 3ms/steps 3ms/steps 3ms/steps 3ms/steps	- loss: - loss: - loss: - loss: - loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0387 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 -	val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss: val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 - 0.0698 - 0.0694 - 0.0696 - 0.0698 -	val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy: val_accuracy:	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798
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75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	1449/1500 [- 0: - 0: - 0: - 0: - 0: - 0: - 0: - 0: - 0:	s 4ms/steps s 3ms/steps s 3ms/steps s 4ms/steps s 4ms/steps s 3ms/steps	- loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss: - loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0387 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 -	val_loss:	0.0701 - 0.0698 - 0.0696 - 0.0697 - 0.0698 - 0.0698 - 0.0698 - 0.0698 -	val_accuracy:	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798
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75/75 Epoch 75/75	1449/1500 [- 0: - 0: - 0: - 0: - 0: - 0: - 0: - 0:	s 4ms/steps s 3ms/steps	- loss:	0.0388 - 0.0386 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0386 - 0.0386 - 0.0386 - 0.0386 - 0.0385 - 0.0385 - 0.0385 -	accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy: accuracy:	0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 - 0.9874 -	val_loss:	0.0701 - 0.0698 - 0.0698 - 0.0698 - 0.0698 - 0.0698 - 0.0698 - 0.0698 - 0.0697 - 0.0697 - 0.0699 - 0.0699 - 0.0699 - 0.0699 - 0.0699 - 0.0690 - 0.0700 - 0.0700 - 0.0700 -	val_accuracy:	0.9785 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798 0.9798
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75/75 Epoch 75/75	1449/1500 [- 0: - 0: - 0: - 0: - 0: - 0: - 0: - 0:	s 4ms/steps s 3ms/steps s 4ms/steps	1 1 1 1 1 1 1 1 1 1	0.0388 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0387 - 0.0386 - 0.0386 - 0.0386 - 0.0386 - 0.0385 - 0.0385 - 0.0385 - 0.0385 - 0.0385 - 0.0385 -	accuracy:	0.9874 - 0.9874 -	val_loss:	0.0701 - 0.0698 - 0.0698 - 0.0698 - 0.0698 - 0.0698 - 0.0698 - 0.0697 - 0.0698 - 0.0697 - 0.0698 - 0.0699 - 0.0699 - 0.0700 - 0.0700 - 0.0700 - 0.0700 - 0.0698 - 0.0700 - 0.0698 - 0.0700 - 0.0698 - 0.0700 - 0.0698 - 0.0698 -	val_accuracy:	0.9785 0.9798
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Epoch 1473/1500
                                     75/75 [===
          Epoch 1474/1500
           75/75 [==:
                                   Epoch 1475/1500
75/75 [===---
                                                   0s 4ms/step - loss: 0.0384 - accuracy: 0.9870 - val_loss: 0.0700 - val_accuracy: 0.9798
          Epoch 1476/1500
                                                 - 0s 4ms/step - loss: 0.0384 - accuracy: 0.9874 - val_loss: 0.0700 - val_accuracy: 0.9798
           75/75 [
          Epoch 1477/1500
           75/75 [==
                                    Epoch 1478/1500
75/75 [======
                                                      4ms/step - loss: 0.0384 - accuracy: 0.9874 - val_loss: 0.0701 - val_accuracy: 0.9798
           Epoch 147
75/75 [==
                                              ==] - 0s 4ms/step - loss: 0.0384 - accuracy: 0.9874 - val_loss: 0.0700 - val_accuracy: 0.9798
          Epoch 1480/1500
           75/75
                                       :======] - 0s 4ms/step - loss: 0.0384 - accuracy: 0.9874 - val_loss: 0.0699 - val_accuracy: 0.9798
          Epoch 1481/1500
75/75 [======
                                                   0s 4ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0703 - val_accuracy: 0.9798
           /5//5 [======
Epoch 1482/1500
                                                 - 0s 5ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0701 - val_accuracy: 0.9798
           75/75 [==
          Epoch 1483/1500
           75/75 [==:
                                     ========] - 0s 4ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0698 - val_accuracy: 0.9798
          Epoch 1484/1500
75/75 [======
                                                   0s 4ms/step - loss: 0.0385 - accuracy: 0.9874 - val_loss: 0.0699 - val_accuracy: 0.9798
          Epoch 1485/1500
                                                   Os 4ms/step - loss: 0.0383 - accuracy: 0.9874 - val loss: 0.0701 - val accuracy: 0.9798
           75/75 [===
          Epoch 1486/1500
           75/75 F
                                      :======] - 0s 3ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0703 - val_accuracy: 0.9798
          75/75 [======
Epoch 1487/1500
75/75 [======
                                                      4ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0701 - val_accuracy: 0.9798
          Epoch 1488/1500
                                            :===] - 0s 4ms/step - loss: 0.0383 - accuracy: 0.9874 - val loss: 0.0703 - val accuracy: 0.9798
           75/75 [===
          Epoch 1489/1500
           75/75 [==
                                     ========] - 0s 4ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0701 - val_accuracy: 0.9798
          Epoch 1490/1500
75/75 [======
                                                   0s 4ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0700 - val_accuracy: 0.9798
                1491/1500
           Epoch
                                            ===] - 0s 5ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0701 - val_accuracy: 0.9798
          75/75 [==:
          Epoch 1492/1500
75/75 [======
                                        ======] - 0s 4ms/step - loss: 0.0382 - accuracy: 0.9874 - val_loss: 0.0701 - val_accuracy: 0.9798
          Epoch 1493/1500
75/75 [=====
                                                   0s 4ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0701 - val_accuracy: 0.9798
          Epoch 1494/1500
                                            ====l - 0s 4ms/step - loss: 0.0383 - accuracv: 0.9874 - val loss: 0.0700 - val accuracv: 0.9798
           75/75 [==:
          Epoch 1495/1500
           75/75 I
                                      ========] - 0s 4ms/step - loss: 0.0382 - accuracy: 0.9874 - val_loss: 0.0706 - val_accuracy: 0.9798
          Epoch 1496/1500
75/75 [======
                                                   0s 3ms/step - loss: 0.0384 - accuracy: 0.9870 - val_loss: 0.0701 - val_accuracy: 0.9798
          75/75 [======
Epoch 1497/1500
                                              ==] - 0s 3ms/step - loss: 0.0383 - accuracy: 0.9870 - val loss: 0.0700 - val accuracy: 0.9811
           75/75 [===
          Epoch 1498/1500
75/75 [======
                                    =======] - 0s 3ms/step - loss: 0.0383 - accuracy: 0.9874 - val_loss: 0.0703 - val_accuracy: 0.9798
              ch 1499/1500
                          75/75 [======
Epoch 1500/1500
          In [112... y_pred_prob_nn_supp = model_supp.predict(X_test_norm)
y_pred_class_nn_supp = (y_pred_prob_nn_supp > 0.5).astype('int32')
          25/25 [=======] - 0s 1ms/step
In [113... y_pred_class_nn_supp[:10]
Out[113]: array([[1],
                  [1],
[1],
                 [0]], dtype=int32)
In [114... y_pred_prob_nn_supp[:10]
Out[114]: array([[9.9989748e-01],
                  [9.9905604e-01].
                  [9.9817389e-01].
                  [9 9999958e-01]
                  [9.9989897e-01],
[9.9819648e-01],
                  [9.9983877e-01]
                  [9.8757589e-01],
                  [5.3232161e-05]
                  [3.3626668e-05]], dtype=float32)
In [115... run_hist_supp.history.keys()
Out[115]: dict_keys(['loss', 'accuracy', 'val_loss', 'val_accuracy'])
In [116... fig, ax = plt.subplots()
ax.plot(run_hist_supp.history['loss'], 'r', label = 'Train loss
ax.plot(run_hist_supp.history['val_loss'], 'b', label = "Val los")
          <matplotlib.legend.Legend at 0x7b29bddc6a10>
           0.7

    Train loss

                                                                        Val loss
           0.6
           0.5
           0.4
           0.3
           0.2
           0.1
                         200
                                 400
                                         600
                                                  800
                                                         1000
                                                                  1200
                                                                          1400
         def plot_roc(y_test, y_pred, model_name):
    fpr, tpr, thr = roc_curve(y_test, y_pred)
    fig, ax = plt.subplots(figsize=(8, 8))
    ax.plot(fpr, tpr, 'k-')
```

```
In [118_
print('accuracy is {:.3f}'.format(accuracy_score(y_test,y_pred_class_nn_supp)))
print('roc-auc is {:.3f}'.format(roc_auc_score(y_test,y_pred_prob_nn_supp)))
plot_roc(y_test, y_pred_prob_nn_supp, "NN Model 1")
                         ROC Curve NN Model 1 for Gender Classification in Byukilmaz
```



• The model shows above has a great result by having a high accuracy and roc-auc result. After testing it out with 1 hidden layer and 1500 epoch and .003 learning rate.

2hidden layer, 200 epoch, .003 learning rate

```
model_supp2 = Sequential([
  Dense(6, input_shape = (20, ), activation = 'relu'),
  Dense(6, input_shape = (20, ), activation = 'relu'),
  Dense(1, activation = 'sigmoid')
])
In [103...
In [104... model_supp2.compile(SGD(lr = 0.003), "binary_crossentropy", metrics = ['accuracy'])
             run_hist_supp2 = model_supp2.fit(X_train_norm, y_train, validation_data = (X_test_norm, y_test), epochs = 200)
             WARNING:absl:'lr' is deprecated in Keras optimizer, please use 'learning_rate' or use the legacy optimizer, e.g.,tf.keras.optimizers.legacy.SGD.
```

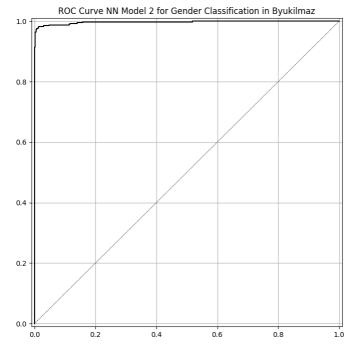
```
Epoch 1/200
                                 ==] - 1s 5ms/step - loss: 0.6613 - accuracy: 0.7189 - val_loss: 0.6347 - val_accuracy: 0.7386
75/75 [===
Epoch 2/200
75/75 [====
                      Epoch 3/200
75/75 [===-
                                      0s 2ms/step - loss: 0.5591 - accuracy: 0.8215 - val_loss: 0.5387 - val_accuracy: 0.8295
Epoch 4/200
                                      0s 2ms/step - loss: 0.5108 - accuracy: 0.8413 - val_loss: 0.4904 - val_accuracy: 0.8535
75/75 [====
Epoch 5/200
                    75/75 [===
Epoch 6/200
75/75 [====
Epoch 7/200
75/75 [====
                                         3ms/step - loss: 0.3743 - accuracy: 0.8796 - val_loss: 0.3544 - val_accuracy: 0.8965
Epoch 8/200
75/75 [=
                                      0s 3ms/step - loss: 0.3352 - accuracy: 0.8893 - val loss: 0.3143 - val accuracy: 0.9028
Epoch 9/200
75/75 [====
                                                 - loss: 0.2988 -
                                                                 accuracy: 0.9011 - val_loss: 0.2782 - val_accuracy: 0.9129
75/75 [====
Epoch 10/200
                                    - 0s 2ms/step - loss: 0.2657 - accuracy: 0.9137 - val_loss: 0.2464 - val_accuracy: 0.9179
75/75 [=
Epoch 11/200
75/75 T
                       Epoch 12/200
75/75 [====
                                         4ms/step - loss: 0.2103 - accuracy: 0.9377 - val_loss: 0.1954 - val_accuracy: 0.9457
75/75 [=====
Epoch 13/200
                                      0s 4ms/step - loss: 0.1883 - accuracy: 0.9461 - val loss: 0.1763 - val accuracy: 0.9482
75/75 [==
Epoch 14/200
75/75
                                      0s 5ms/step - loss: 0.1700 - accuracy: 0.9541 - val loss: 0.1599 - val accuracy: 0.9520
Epoch
75/75
  och 15/200
                                                                 accuracy: 0.9588 - val_loss: 0.1466 - val_accuracy: 0.9520
75/75 [====
Epoch 16/200
75/75 [====
Epoch 17/200
                                      0s 4ms/step - loss: 0.1416 - accuracy: 0.9613 - val loss: 0.1357 - val accuracy: 0.9533
75/75 [
                      =========] - 0s 4ms/step - loss: 0.1308 - accuracy: 0.9634 - val loss: 0.1269 - val accuracy: 0.9520
Epoch 18/200
75/75 [====
     19/200
Epoch
                                      0s 5ms/step - loss: 0.1149 - accuracy: 0.9672 - val_loss: 0.1141 - val_accuracy: 0.9558
75/75 [====
Epoch 20/200
75/75 [====
                                      0s 4ms/step - loss: 0.1088 - accuracy: 0.9668 - val_loss: 0.1097 - val_accuracy: 0.9558
  och 21/200
                                                 - loss: 0.1037 - accuracy: 0.9697 - val_loss: 0.1059 -
                                                                                                    val_accuracy: 0.9571
Epoch 22/200
                                    - 1s 8ms/step - loss: 0.0996 - accuracy: 0.9697 - val loss: 0.1030 - val accuracy: 0.9583
75/75 [=:
Epoch 23/200
75/75 I
                        Fpoch 24/200
75/75 [====
                                      Os 3ms/step - loss: 0.0929 - accuracy: 0.9710 - val loss: 0.0987 - val accuracy: 0.9583
     25/200
Epoch
75/75 [==:
                                      0s 2ms/step - loss: 0.0902 - accuracy: 0.9693 - val loss: 0.0969 - val accuracy: 0.9583
Epoch 26/200
75/75 [=====
                                         3ms/step - loss: 0.0879 - accuracy: 0.9710 - val_loss: 0.0954 - val_accuracy: 0.9596
Epoch
75/75
   ch 27/200
                                         2ms/step - loss: 0.0861 - accuracy: 0.9718 - val_loss: 0.0939 - val_accuracy: 0.9596
75/75 [====
Epoch 28/200
75/75 [===
                      =========] - 0s 2ms/step - loss: 0.0844 - accuracy: 0.9718 - val_loss: 0.0929 - val_accuracy: 0.9609
Fnoch 29/200
75/75 I
                                      Os 3ms/step - loss: 0.0827 - accuracy: 0.9726 - val loss: 0.0918 - val accuracy: 0.9609
      30/200
     31/200
Epoch
75/75 [==
                                      0s 2ms/step - loss: 0.0801 - accuracy: 0.9726 - val loss: 0.0903 - val accuracy: 0.9609
Epoch 32/200
75/75 [=====
                                         3ms/step - loss: 0.0791 - accuracy: 0.9731 - val_loss: 0.0894 - val_accuracy: 0.9609
Epoch 33
75/75 [=
      1====
33/200
                                      0s 3ms/step - loss: 0.0779 - accuracy: 0.9739 - val loss: 0.0889
                                                                                                   - val accuracy: 0.9596
Epoch 34/200
75/75 [=:
                        ========1 - 0s 3ms/step - loss: 0.0769 - accuracv: 0.9743 - val loss: 0.0883 - val accuracv: 0.9596
Epoch 35/200
75/75
                                      0s 3ms/step - loss: 0.0761 - accuracy: 0.9743 - val_loss: 0.0878 - val_accuracy: 0.9609
      36/200
Epoch
                                      0s 3ms/step - loss: 0.0754 - accuracy: 0.9743 - val_loss: 0.0871 - val_accuracy: 0.9634
75/75 [====
Epoch 37/200
75/75 [==
                                      0s 3ms/step - loss: 0.0748 - accuracy: 0.9739 - val loss: 0.0868 - val accuracy: 0.9634
Epoch
75/75
     38/200
                                         4ms/step - loss: 0.0741 - accuracy: 0.9739 - val_loss: 0.0865 - val_accuracy: 0.9634
      [=====
39/200
Epoch 39,
75/75 [==
                                         3ms/step - loss: 0.0735 - accuracy: 0.9769 - val_loss: 0.0863 - val_accuracy: 0.9697
Epoch 40/200
75/75 [
                     Fnoch 41/200
75/75
                                         4ms/step - loss: 0.0724 - accuracy: 0.9781 - val loss: 0.0862 - val accuracy: 0.9710
     42/200
Epoch
                                         4ms/step - loss: 0.0721 - accuracy: 0.9785 - val loss: 0.0858 - val accuracy: 0.9710
75/75 [====
Epoch 43/200
75/75 [==
                        ========] - 0s 5ms/step - loss: 0.0716 - accuracv: 0.9785 - val loss: 0.0855 - val accuracv: 0.9710
Epoch 44/200
75/75 [====
Epoch 45/200
                                         8ms/step - loss: 0.0712 -
                                                                 accuracy: 0.9794 - val_loss: 0.0856 -
                                      0s 5ms/step - loss: 0.0709 - accuracy: 0.9785 - val_loss: 0.0852 - val_accuracy: 0.9710
75/75 [==
Epoch 46/200
75/75 [==
                       ========= 1 - 0s 2ms/step - loss: 0.0705 - accuracy: 0.9798 - val loss: 0.0850 - val accuracy: 0.9710
 noch 47/200
75/75 [====
Epoch 48/200
                                      0s 2ms/step - loss: 0.0700 - accuracy: 0.9798 - val_loss: 0.0847 - val_accuracy: 0.9710
                                      Os 2ms/step - loss: 0.0697 - accuracy: 0.9811 - val loss: 0.0846 - val accuracy: 0.9722
75/75 [====
Epoch 49/200
75/75 [==
                                      0s 2ms/step - loss: 0.0694 - accuracy: 0.9806 - val loss: 0.0843 - val accuracy: 0.9710
     50/200
                                                                 accuracy: 0.9811 - val_loss: 0.0841 - val_accuracy: 0.9710
     51/200
Epoch 51,
75/75 [==
                                      0s 4ms/step - loss: 0.0687 - accuracy: 0.9815 - val_loss: 0.0841 - val_accuracy: 0.9710
Epoch 52/200
75/75
                       ========] - 0s 3ms/step - loss: 0.0685 - accuracy: 0.9811 - val loss: 0.0837 - val accuracy: 0.9722
Epoch 53/200
75/75 [====
     54/200
Epoch
                                      0s 4ms/step - loss: 0.0678 - accuracy: 0.9811 - val_loss: 0.0832 - val_accuracy: 0.9710
75/75 [====
Epoch 55/200
75/75 [==
                        :=======] - 0s 6ms/step - loss: 0.0675 - accuracy: 0.9811 - val_loss: 0.0829 - val_accuracy: 0.9710
      56/200
                                         7ms/step - loss: 0.0674 - accuracy: 0.9811 - val_loss: 0.0827 - val_accuracy: 0.9722
     57/200
Epoch
                                ===] - 1s 8ms/step - loss: 0.0670 - accuracy: 0.9811 - val loss: 0.0828 - val accuracy: 0.9735
75/75 [=
Epoch 58/200
75/75 [
                       Epoch
75/75
     59/200
     60/200
Epoch
75/75 [====
Epoch 61/200
                         :=======] - 0s 5ms/step - loss: 0.0665 - accuracy: 0.9811 - val loss: 0.0823 - val accuracy: 0.9722
75/75 [:
                      62/200
                                      0s 3ms/step - loss: 0.0661 - accuracy: 0.9819 - val_loss: 0.0820 - val_accuracy: 0.9722
75/75 [====
Epoch 63/200
                      :=======] - 0s 4ms/step - loss: 0.0657 - accuracy: 0.9815 - val_loss: 0.0818 - val_accuracy: 0.9722
75/75 [==
Fnoch 64/200
```

```
Epoch 65/200
                                            Os 4ms/step - loss: 0.0654 - accuracy: 0.9823 - val_loss: 0.0819 - val_accuracy: 0.9735
 75/75 [===
Epoch 66/200
 75/75 [==
                                            0s 4ms/step - loss: 0.0655 - accuracy: 0.9811 - val loss: 0.0813 - val accuracy: 0.9722
Epoch 6:
       67/200
                                               5ms/step - loss: 0.0650 - accuracy: 0.9819 - val_loss: 0.0811 - val_accuracy: 0.9722
Epoch 68/200
                                            0s 4ms/step - loss: 0.0649 - accuracy: 0.9819 - val_loss: 0.0810 - val_accuracy: 0.9722
75/75 [====
Epoch 69/200
 75/75 [==
                                            0s 4ms/step - loss: 0.0647 - accuracy: 0.9815 - val loss: 0.0810 - val accuracy: 0.9735
       70/200
 75/75
                                               5ms/step - loss: 0.0644 - accuracy: 0.9811 - val loss: 0.0806 - val accuracy: 0.9722
Epoch 72/200
 75/75
                                               3ms/step - loss: 0.0641 - accuracy: 0.9823 - val loss: 0.0803 - val accuracy: 0.9722
       73/200
                                                           loss: 0.0639 -
                                                                           accuracy: 0.9819 - val_loss: 0.0801 - val_accuracy: 0.9722
       74/200
 Epoch
                                            0s 2ms/step - loss: 0.0639 - accuracy: 0.9823 - val_loss: 0.0799 - val_accuracy: 0.9722
75/75 [====
Epoch 75/200
 75/75 [=
                                          - 0s 4ms/step - loss: 0.0637 - accuracy: 0.9823 - val loss: 0.0796 - val accuracy: 0.9722
       76/200
                                               4ms/step - loss: 0.0634 - accuracy: 0.9823 - val_loss: 0.0794 - val_accuracy: 0.9722
       77/200
Epoch
                                            Os 3ms/step - loss: 0.0632 - accuracy: 0.9827 - val loss: 0.0794 - val accuracy: 0.9722
 75/75 [==:
Epoch 78/200
 75/75
                                               3ms/step - loss: 0.0632 - accuracy: 0.9819 - val loss: 0.0793 - val accuracy: 0.9722
       79/200
Epoch
75/75
                                                                           accuracy: 0.9827 - val_loss: 0.0792 - val_accuracy: 0.9722
75/75 [====
Epoch 80/200
                                            0s 3ms/step - loss: 0.0628 - accuracy: 0.9823 - val_loss: 0.0792 - val_accuracy: 0.9722
 75/75 [==
Epoch 81/200
 75/75 [
                                            0s 4ms/step - loss: 0.0627 - accuracy: 0.9823 - val loss: 0.0792 - val accuracy: 0.9735
Epoch 82/200
75/75 [====
      [====-
83/200
 Epoch
                                               4ms/step - loss: 0.0623 - accuracy: 0.9832 - val_loss: 0.0788 - val_accuracy: 0.9722
 75/75 [====
Epoch 84/200
75/75 [====
                                               4ms/step - loss: 0.0622 - accuracy: 0.9819 - val_loss: 0.0786 - val_accuracy: 0.9735
       85/200
                                                         - loss: 0.0621 - accuracy: 0.9832 - val_loss: 0.0783 -
Epoch 86/200
                                            0s 4ms/step - loss: 0.0620 - accuracy: 0.9832 - val loss: 0.0783 - val accuracy: 0.9722
 75/75 [==
Epoch 87/200
75/75 I
                                            0s 4ms/step - loss: 0.0617 - accuracy: 0.9836 - val loss: 0.0783 - val accuracy: 0.9735
                                               3ms/step - loss: 0.0617 - accuracy: 0.9827 - val loss: 0.0779 - val accuracy: 0.9722
                                            0s 3ms/step - loss: 0.0615 - accuracy: 0.9840 - val loss: 0.0780 - val accuracy: 0.9735
 Epoch 90/200
75/75 [====
                                               2ms/step - loss: 0.0615 - accuracy: 0.9827 - val_loss: 0.0774 - val_accuracy: 0.9722
Epoch 91/200
75/75 [====
Epoch 92/200
                                               3ms/step - loss: 0.0613 - accuracy: 0.9832 - val_loss: 0.0770 - val_accuracy: 0.9722
 75/75 [====
Epoch 93/200
                                            0s 3ms/step - loss: 0.0612 - accuracy: 0.9832 - val loss: 0.0771 - val accuracy: 0.9722
 75/75
                                               3ms/step - loss: 0.0611 - accuracy: 0.9832 - val loss: 0.0771 - val accuracy: 0.9722
       94/200
 75/75 [=====
Epoch 95/200
 75/75 [==:
                                            0s 2ms/step - loss: 0.0609 - accuracy: 0.9836 - val loss: 0.0768 - val accuracy: 0.9722
Epoch 96/200
75/75 [====
                                                           loss: 0.0609 -
                                                                           accuracy: 0.9832 - val_loss: 0.0766 - val_accuracy: 0.9722
       97/200
Epoch 97
75/75 [=
                                                         - loss: 0.0606 - accuracy: 0.9832 - val loss: 0.0765 - val accuracy: 0.9722
Epoch 98/200
 75/75 [==
                                            0s 3ms/step - loss: 0.0603 - accuracy: 0.9836 - val loss: 0.0767 - val accuracy: 0.9722
 Epoch 99/200
 75/75
                                            0s 2ms/step - loss: 0.0603 - accuracy: 0.9836 - val_loss: 0.0764 - val_accuracy: 0.9722
       100/200
 Epoch
                                            0s 2ms/step - loss: 0.0602 - accuracy: 0.9840 - val_loss: 0.0765 - val_accuracy: 0.9722
75/75 [=====
Epoch 101/200
75/75 [==
                                            0s 2ms/step - loss: 0.0602 - accuracy: 0.9836 - val loss: 0.0763 - val accuracy: 0.9735
Epoch 102/200
75/75 [=====
                                                                           accuracy: 0.9840 - val_loss: 0.0760 - val_accuracy: 0.9735
       103/200
 Epoch
75/75
                                                                                             - val_loss: 0.0758 - val_accuracy: 0.9722
Epoch 104/200
 75/75
                                            0s 2ms/step - loss: 0.0599 - accuracy: 0.9836 - val loss: 0.0758 - val accuracy: 0.9722
 Fnoch 105/200
 75/75
                                               3ms/step - loss: 0.0597 - accuracy: 0.9840 - val loss: 0.0754 - val accuracy: 0.9735
       106/200
                                               3ms/step - loss: 0.0597 - accuracy: 0.9840 - val loss: 0.0755 - val accuracy: 0.9722
75/75 [=====
Epoch 107/200
 75/75
 75/75 [==
                                            0s 2ms/step - loss: 0.0595 - accuracy: 0.9840 - val loss: 0.0754 - val accuracy: 0.9722
Epoch 108/200
75/75 [=====
       109/200
                                            0s 2ms/step - loss: 0.0594 - accuracy: 0.9844 - val_loss: 0.0749 - val_accuracy: 0.9735
 75/75 [=
Epoch 110/200
 75/75 T
                                          - 0s 3ms/step - loss: 0.0592 - accuracy: 0.9844 - val loss: 0.0746 - val accuracy: 0.9735
 Fnoch 111/200
 75/75
                                               2ms/step - loss: 0.0591 - accuracy: 0.9840 - val_loss: 0.0747 - val_accuracy: 0.9735
Epoch 112/200
                                            0s 3ms/step - loss: 0.0591 - accuracy: 0.9844 - val loss: 0.0745 - val accuracy: 0.9735
 75/75
75/75 [=====
Epoch 113/200
 75/75
                                            0s 2ms/step - loss: 0.0589 - accuracy: 0.9844 - val loss: 0.0744 - val accuracy: 0.9735
Epoch 114/200
75/75 [=====
                                                                                             - val_loss: 0.0744 - val_accuracy: 0.9735
       115/200
 Epoch 11
75/75 [=
                                            0s 2ms/step - loss: 0.0587 - accuracy: 0.9840 - val_loss: 0.0743 - val_accuracy: 0.9735
Epoch 116/200
 75/75
                                            0s 3ms/step - loss: 0.0587 - accuracy: 0.9840 - val loss: 0.0743 - val accuracy: 0.9735
Epoch 117/200
75/75 [=====
       118/200
 Epoch
 75/75 [==
                                               2ms/step - loss: 0.0584 - accuracy: 0.9848 - val_loss: 0.0741 - val_accuracy: 0.9747
Epoch 119/200
 75/75 T
                                            0s 3ms/step - loss: 0.0583 - accuracy: 0.9844 - val loss: 0.0739 - val accuracy: 0.9747
Epoch 120/200
75/75 [=====
                                                         - loss: 0.0581 - accuracy: 0.9848 - val_loss: 0.0734 - val_accuracy: 0.9747
Epoch 121/200
                                            0s 3ms/step - loss: 0.0581 - accuracy: 0.9844 - val loss: 0.0735 - val accuracy: 0.9735
 75/75 [=
Epoch 122/200
 75/75
                                            0s 2ms/step - loss: 0.0582 - accuracy: 0.9840 - val loss: 0.0734 - val accuracy: 0.9722
 Epoch
75/75
       123/200
75/75 [=====
Epoch 124/200
 75/75
                                            0s 2ms/step - loss: 0.0579 - accuracy: 0.9844 - val loss: 0.0732 - val accuracy: 0.9722
75/75 [=====
Epoch 125/200
 75/75
                                            0s 2ms/step - loss: 0.0577 - accuracy: 0.9844 - val loss: 0.0734 - val accuracy: 0.9710
       126/200
                                               3ms/step - loss: 0.0577 - accuracy: 0.9840 - val_loss: 0.0735 - val_accuracy: 0.9722
 /5//5 [=====
Epoch 127/200
                            :=======] - 0s 3ms/step - loss: 0.0577 - accuracy: 0.9844 - val_loss: 0.0734 - val_accuracy: 0.9722
 75/75 [=
 Fnoch 128/200
                      :=======] - 0s 3ms/step - loss: 0.0575 - accuracy: 0.9844 - val_loss: 0.0732 - val_accuracy: 0.9710
```

	129/200										
	[======] 130/200	- 0	s 2ms/step	- loss:	0.0573 -	accuracy:	0.9844 -	val_loss:	0.0730 -	val_accuracy:	0.9722
75/75	[]	- 0	s 2ms/step	- loss:	0.0573 -	accuracy:	0.9848 -	val_loss:	0.0729 -	val_accuracy:	0.9710
	131/200 []	- 0:	s 2ms/step	- loss:	0.0572 -	accuracy:	0.9840 -	val loss:	0.0730 -	val accuracy:	0.9722
Epoch	132/200										
	[=========] 133/200	- 6	s zms/step	- 1055:	0.05/2 -	accuracy:	0.9844 -	vai_ioss:	0.0/29 -	vai_accuracy:	0.9/10
	[======] 134/200	- 0	s 2ms/step	- loss:	0.0570 -	accuracy:	0.9844 -	val_loss:	0.0727 -	val_accuracy:	0.9710
75/75	[]	- 0	s 2ms/step	- loss:	0.0570 -	accuracy:	0.9848 -	val_loss:	0.0731 -	val_accuracy:	0.9722
	135/200 []	- a	s 3ms/sten	- loss	0 0570 -	accuracy:	a 9844 -	val loss.	0 0724 -	val accuracy:	0 9710
Epoch	136/200										
	[========] 137/200	- 0	s 2ms/step	- loss:	0.0567 -	accuracy:	0.9844 -	val_loss:	0.0723 -	val_accuracy:	0.9722
75/75	[]	- 0	s 2ms/step	- loss:	0.0568 -	accuracy:	0.9853 -	val_loss:	0.0721 -	val_accuracy:	0.9722
	138/200 []	- 0	s 3ms/step	- loss:	0.0566 -	accuracy:	0.9844 -	val_loss:	0.0721 -	val_accuracy:	0.9722
Epoch	139/200 [=======]										
	[========] 140/200	- 6:	s siiis/step	- 1055:	0.0500 -	accuracy:	0.9646 -	. A91_1022:	0.0722 -	vai_accuracy:	0.9710
	[========] 141/200	- 0	s 3ms/step	- loss:	0.0564 -	accuracy:	0.9848 -	val_loss:	0.0721 -	val_accuracy:	0.9722
	[]	- 0	s 3ms/step	- loss:	0.0563 -	accuracy:	0.9844 -	val_loss:	0.0719 -	val_accuracy:	0.9710
	142/200 [========]	- a	/ms/stan	- 1000	0 0564 -	accuracy:	0 9811 -	val loss:	0 0710 -	val accuracy:	0 9710
Epoch	143/200					-		_			
	[========] 144/200	- 0	s 3ms/step	- loss:	0.0562 -	accuracy:	0.9848 -	val_loss:	0.0718 -	val_accuracy:	0.9735
75/75	[]	- 0	s 4ms/step	- loss:	0.0560 -	accuracy:	0.9840 -	val_loss:	0.0718 -	val_accuracy:	0.9722
	145/200 []	- 0:	s 3ms/step	- loss:	0.0560 -	accuracy:	0.9848 -	val loss:	0.0718 -	val accuracy:	0.9722
Epoch	146/200										
	[=========] 147/200	- 0:	s 4ms/step	- loss:	0.0559 -	accuracy:	0.9853 -	val_loss:	0.0714 -	val_accuracy:	0.9722
	[]	- 0	s 4ms/step	- loss:	0.0559 -	accuracy:	0.9853 -	val_loss:	0.0714 -	val_accuracy:	0.9722
	148/200 [========]	- 0	s 4ms/step	- loss:	0.0559 -	accuracy:	0.9848 -	val_loss:	0.0717 -	val_accuracy:	0.9735
Epoch	149/200					,		_		_ ′	
Epoch	[=======] 150/200										
	[========] 151/200	- 0	s 4ms/step	- loss:	0.0557 -	accuracy:	0.9853 -	val_loss:	0.0712 -	val_accuracy:	0.9722
	[]	- 0	s 4ms/step	- loss:	0.0555 -	accuracy:	0.9848 -	val_loss:	0.0713 -	val_accuracy:	0.9722
	152/200 []	- a	2mc/ston	- 1000	0 0551 -	accuracy:	0 9848 -	val loss:	0 0714 -	val accuracy:	0 9735
Epoch	153/200										
	[========] 154/200	- 0	s 2ms/step	- loss:	0.0553 -	accuracy:	0.9853 -	val_loss:	0.0711 -	val_accuracy:	0.9722
75/75	[]	- 0	s 3ms/step	- loss:	0.0553 -	accuracy:	0.9853 -	val_loss:	0.0710 -	val_accuracy:	0.9722
	155/200 [=======]	- 0:	s 3ms/step	- loss:	0.0551 -	accuracy:	0.9848 -	val loss:	0.0710 -	val accuracy:	0.9722
Epoch	156/200										
	[========] 157/200	- 0:	s 3ms/step	- loss:	0.0550 -	accuracy:	0.9848 -	val_loss:	0.0710 -	val_accuracy:	0.9722
75/75	[]	- 0	s 2ms/step	- loss:	0.0550 -	accuracy:	0.9853 -	val_loss:	0.0710 -	val_accuracy:	0.9722
	158/200 []	- 0	s 2ms/step	- loss:	0.0550 -	accuracy:	0.9844 -	val_loss:	0.0709 -	val_accuracy:	0.9722
Epoch											
	[=======] 160/200	- 6:	s zms/step	- 1055:	0.0549 -	accuracy:	0.9646 -	. A91_1022:	0.0/0/ -	vai_accuracy:	0.9722
	[======] 161/200	- 0	s 3ms/step	- loss:	0.0548 -	accuracy:	0.9857 -	val_loss:	0.0707 -	val_accuracy:	0.9722
	[]	- 0	s 2ms/step	- loss:	0.0547 -	accuracy:	0.9853 -	val_loss:	0.0708 -	val_accuracy:	0.9722
	162/200 []	- a	2mc/ston	- 1000	0 05// -	accuracy:	0 9853 -	val loss:	0 0708 -	val accuracy:	0 9722
Epoch	163/200										
	[========] 164/200	- 0	s 2ms/step	- loss:	0.0546 -	accuracy:	0.9853 -	val_loss:	0.0711 -	val_accuracy:	0.9710
75/75	[]	- 0	s 2ms/step	- loss:	0.0545 -	accuracy:	0.9848 -	val_loss:	0.0708 -	val_accuracy:	0.9722
	165/200 []	- 0:	s 3ms/step	- loss:	0.0545 -	accuracy:	0.9853 -	val loss:	0.0708 -	val accuracy:	0.9722
Epoch	166/200					-		_			
	[========] 167/200	- 0:	s 2ms/step	- loss:	0.0543 -	accuracy:	0.9848 -	val_loss:	0.0707 -	val_accuracy:	0.9722
75/75	[]	- 0	s 2ms/step	- loss:	0.0542 -	accuracy:	0.9853 -	val_loss:	0.0704 -	val_accuracy:	0.9735
	168/200 []	- 0:	s 3ms/step	- loss:	0.0543 -	accuracy:	0.9840 -	val_loss:	0.0704 -	val_accuracy:	0.9735
Epoch	169/200										
	[=========] 170/200	- 6:	s zms/step	- 1055:	0.0540 -	accuracy:	0.9646 -	. A91_1022:	0.0702 -	vai_accuracy:	0.9722
	[========] 171/200	- 0	s 3ms/step	- loss:	0.0540 -	accuracy:	0.9857 -	val_loss:	0.0712 -	val_accuracy:	0.9722
	[]	- 0	s 3ms/step	- loss:	0.0542 -	accuracy:	0.9853 -	val_loss:	0.0710 -	val_accuracy:	0.9710
	172/200 [========]	0	2mc/cton	locci	0 0530	accupacy:	0 0040	val loss:	0 0711	val accumacy:	0 0722
Epoch	173/200					-		_			
	[======] 174/200	- 0	s 3ms/step	- loss:	0.0538 -	accuracy:	0.9861 -	val_loss:	0.0707 -	val_accuracy:	0.9710
75/75	[=======]	- 0	s 3ms/step	- loss:	0.0538 -	accuracy:	0.9857 -	val_loss:	0.0708 -	val_accuracy:	0.9722
	175/200 []	- A	s 2ms/sten	- loss:	0.0538 -	accuracy.	0.9857 -	val loss:	0.0702 -	val accuracy:	0.9722
Epoch	176/200										
	[========] 177/200	- 0	s 2ms/step	- loss:	0.0536 -	accuracy:	0.9861 -	vai_loss:	0.0701 -	val_accuracy:	0.9722
75/75	[]	- 0	s 2ms/step	- loss:	0.0537 -	accuracy:	0.9857 -	val_loss:	0.0702 -	val_accuracy:	0.9722
	178/200 []	- 0:	s 3ms/step	- loss:	0.0535 -	accuracy:	0.9857 -	val loss:	0.0699 -	val accuracy:	0.9735
Epoch	179/200										
	[========] 180/200	- 6:	s sms/step	- 1055:	0.0554 -	accuracy:	0.9055 -	. A91_1022:	0.0700 -	vai_accuracy:	0.9735
75/75	[=======] 181/200	- 0	s 3ms/step	- loss:	0.0534 -	accuracy:	0.9848 -	val_loss:	0.0699 -	val_accuracy:	0.9722
75/75	[]	- 0	s 3ms/step	- loss:	0.0533 -	accuracy:	0.9857 -	val_loss:	0.0700 -	val_accuracy:	0.9722
	182/200 []	- 0	s 2ms/stan	- 1000	0.0532	accuracy.	0.9848	val locc	0.0602	val accuracy.	0.9725
Epoch	183/200					-		_			
	[======] 184/200	- 0	s 2ms/step	- loss:	0.0531 -	accuracy:	0.9848 -	val_loss:	0.0700 -	val_accuracy:	0.9722
75/75	[]	- 0	s 2ms/step	- loss:	0.0530 -	accuracy:	0.9844 -	val_loss:	0.0696 -	val_accuracy:	0.9722
	185/200 []	- 0	s 3ms/sten	- loss:	0.0529 -	accuracv:	0.9857 -	val loss:	0.0694 -	val_accuracv:	0.9722
Epoch	186/200										
	[========] 187/200	- 0	s 3ms/step	- loss:	0.0527 -	accuracy:	0.9857 -	vai_loss:	0.0694 -	val_accuracy:	0.9735
75/75	[]	- 0	s 3ms/step	- loss:	0.0527 -	accuracy:	0.9861 -	val_loss:	0.0695 -	val_accuracy:	0.9722
	188/200 [========]	- 0	s 3ms/step	- loss:	0.0526 -	accuracy:	0.9857 -	val_loss:	0.0694 -	val_accuracy:	0.9735
Epoch	189/200					-		_			
Epoch	[=======] 190/200										
	[=======] 191/200	- 0	s 2ms/step	- loss:	0.0524 -	accuracy:	0.9853 -	val_loss:	0.0693 -	val_accuracy:	0.9747
75/75	[]	- 0	s 3ms/step	- loss:	0.0525 -	accuracy:	0.9848 -	val_loss:	0.0695 -	val_accuracy:	0.9735
	192/200	- 0	2mc/c+^-	- 1000	0 0525	accuracy	0 0853	val locci	0 0600	val accumació	0 0725
12/12	[======]	- 0	zms/step	- 1022;	0.0020 -	accuracy:	0.2033 -	A01_1022;	J. JUJ3 -	.ur_accuracy:	0.2/33

```
Epoch 193/200
                                75/75 [=====
Epoch 194/200
           Epoch 195/200
75/75 [=====
                           Epoch 196/200
                                    75/75 [=====
Epoch 197/200
           75/75 [==:
                         Epoch 198/200
75/75 [======
Epoch 199/200
75/75 [======
                                  ========] - 0s 3ms/step - loss: 0.0519 - accuracy: 0.9857 - val_loss: 0.0688 - val_accuracy: 0.9747
                                    Epoch 200/200
           75/75 [=====
                                ==========] - 0s 2ms/step - loss: 0.0518 - accuracy: 0.9861 - val_loss: 0.0685 - val_accuracy: 0.9747
         y_pred_prob_nn_supp2 = model_supp2.predict(X_test_norm)
y_pred_class_nn_supp2 = (y_pred_prob_nn_supp2 > 0.5).astype('int32')
           25/25 [======] - 0s 1ms/step
In [107... y_pred_class_nn_supp2[:10]
Out[107]: array([[1],
                  [0],
[0]], dtype=int32)
In [108... y_pred_prob_nn_supp2[:10]
Out[108]: array([[9.9758953e-01],
                  [[9.9758953e-01],
[9.9632859e-01],
[9.9464029e-01],
[9.9986553e-01],
[9.9732304e-01],
[9.5251268e-01],
                  [9.9892521e-01],
                  [5.4142284e-01].
                  [2.0988989e-03],
[3.9202740e-04]], dtype=float32)
In [109... run_hist_supp2.history.keys()
Out[109]; dict_keys(['loss', 'accuracy', 'val_loss', 'val_accuracy'])
In [110... fig, ax = plt.subplots()
           .-a<sub>p</sub>, αΛ - με.: συμμευ:δ()
ax.plot(run_hist_supp2.history['loss'], 'r', label = 'Train loss')
ax.plot(run_hist_supp2.history['val_loss'], 'b', label = "Val loss")
           ax.legend()
Out[110]: cmatplotlib.legend.Legend at 0x7b29b595dd50>
                                                                        Train loss
                                                                       - Val loss
           0.6
           0.5
            0.4
           0.3
            0.2
           0.1
                          25
                                  50
                                                          125
                                                                  150
                                                                           175
         def plot_roc(y_test, y_pred, model_name):
    fpr, tpr, thr = roc_curve(y_test, y_pred)
    fig, ax = plt.subplots(figsize=(8, 8))
    ax.plot(fpr, tpr, 'k-')
    ax.plot([0, 1], [0, 1], 'k--', linewidth=.5) # roc curve for random model
    ax.grid(True)
    ax.set(title='ROC Curve {} for Gender Classification in Byukilmaz'.format(model_name),
        xlim=[-0.01, 1.01], ylim=[-0.01, 1.01])
In [119...
In [162_
print('accuracy is {:.3f}'.format(accuracy_score(y_test,y_pred_class_nn_supp2)))
print('roc-auc is {:.3f}'.format(roc_auc_score(y_test,y_pred_prob_nn_supp2)))
plot_roc(y_test, y_pred_prob_nn_supp, "NN Model 2")
```

accuracy is 0.975 roc-auc is 0.997



-With 2 hidden layers and 800 epoch with the same learning rate, this model shows a impressive result.

$2\ hidden$ layer, learning rate of .001, epoch of 800

```
In [151... model_supp3 = Sequential([
    Dense(6, input_shape = (20, ), activation = 'relu'),
    Dense(6, input_shape = (20, ), activation = 'relu'),
    Dense(1, activation = 'sigmoid')
])
In [152... model_supp3.compile(SGD(lr = 0.001), "binary_crossentropy", metrics = ['accuracy'])
    run_hist_supp3 = model_supp3.fit(X_train_norm, y_train, validation_data = (X_test_norm, y_test), epochs = 800)

WARNING:absl:'lr' is deprecated in Keras optimizer, please use 'learning_rate' or use the legacy optimizer, e.g.,tf.keras.optimizers.legacy.SGD.
```

```
Epoch 1/800
                                ==] - 2s 11ms/step - loss: 0.6292 - accuracy: 0.5997 - val_loss: 0.5769 - val_accuracy: 0.6843
75/75 [====
Epoch 2/800
75/75 [====
                     Epoch 3/800
75/75 [====
                                        3ms/step - loss: 0.5069 - accuracy: 0.7976 - val_loss: 0.4776 - val_accuracy: 0.8295
Epoch 4/800
                                     0s 5ms/step - loss: 0.4734 - accuracy: 0.8312 - val_loss: 0.4454 - val_accuracy: 0.8687
75/75 [====
Epoch 5/800
                   75/75 [====
Epoch 6/800
75/75 [====
Epoch 7/806
75/75 [====
                                     Os 2ms/step - loss: 0.3999 - accuracy: 0.8767 - val_loss: 0.3711 - val_accuracy: 0.9003
Epoch 8/800
75/75 [=
                                     0s 3ms/step - loss: 0.3798 - accuracy: 0.8809 - val loss: 0.3502 - val accuracy: 0.9091
Epoch 9/800
75/75 [====
                                        2ms/step - loss: 0.3607 -
                                                                accuracy: 0.8897 - val_loss: 0.3303 - val_accuracy: 0.9129
Epoch 10/800
                               ===] - Os 3ms/step - loss: 0.3407 - accuracy: 0.8956 - val_loss: 0.3099 - val_accuracy: 0.9217
75/75 [=
Epoch 11/800
                     75/75 [
Epoch 12/800
75/75 [====
                                     0s 2ms/step - loss: 0.2950 - accuracy: 0.9184 - val_loss: 0.2653 - val_accuracy: 0.9407
75/75 [=====
Epoch 13/800
                                     Os 2ms/step - loss: 0.2696 - accuracy: 0.9285 - val loss: 0.2417 - val accuracy: 0.9495
75/75 [==:
Epoch 14/800
75/75 [
                                     0s 2ms/step - loss: 0.2450 - accuracy: 0.9377 - val loss: 0.2190 - val accuracy: 0.9545
Epoch
75/75
  och 15/800
                                                                accuracy: 0.9440 - val_loss: 0.1988 - val_accuracy: 0.9609
75/75 [====
Epoch 16/800
                        :=======] - 0s 3ms/step - loss: 0.2022 - accuracy: 0.9478 - val_loss: 0.1800 - val_accuracy: 0.9634
75/75 [====
Epoch 17/800
75/75 F
                     =========] - 0s 2ms/step - loss: 0.1843 - accuracy: 0.9524 - val loss: 0.1642 - val accuracy: 0.9659
Epoch 18/800
75/75 [====
Epoch 19/800
                                     0s 3ms/step - loss: 0.1556 - accuracy: 0.9566 - val_loss: 0.1390 - val_accuracy: 0.9722
75/75 [====
Epoch 20/800
75/75 [====
                                     0s 4ms/step - loss: 0.1446 - accuracy: 0.9588 - val_loss: 0.1294 - val_accuracy: 0.9735
  och 21/800
                                     0s 3ms/step - loss: 0.1352 - accuracy: 0.9617 - val_loss: 0.1210 - val_accuracy: 0.9760
Epoch 22/800
                          75/75 [=:
Epoch 23/800
75/75 I
                       ========= 1 - 0s 4ms/step - loss: 0.1204 - accuracy: 0.9638 - val loss: 0.1094 - val accuracy: 0.9735
Epoch 24/800
75/75 [====
Epoch 25/800
                                     Os 4ms/step - loss: 0.1146 - accuracy: 0.9642 - val loss: 0.1048 - val accuracy: 0.9722
75/75 [====
                                     0s 3ms/step - loss: 0.1098 - accuracy: 0.9651 - val loss: 0.1014 - val accuracy: 0.9710
Epoch 26/800
75/75 [=====
                                        3ms/step - loss: 0.1059 - accuracy: 0.9668 - val_loss: 0.0980 - val_accuracy: 0.9710
Epoch 27/800
75/75 [====
Epoch 28/800
                                        4ms/step - loss: 0.1022 - accuracy: 0.9680 - val_loss: 0.0949 - val_accuracy: 0.9710
75/75 [====
                     =========] - 0s 3ms/step - loss: 0.0992 - accuracy: 0.9684 - val_loss: 0.0929 - val_accuracy: 0.9710
Fnoch 29/800
75/75 F
                                     Os 3ms/step - loss: 0.0966 - accuracy: 0.9697 - val loss: 0.0906 - val accuracy: 0.9710
     30/800
Epoch 31/800
75/75 [==
                                     0s 2ms/step - loss: 0.0925 - accuracy: 0.9710 - val loss: 0.0877 - val accuracy: 0.9697
Epoch 32/800
75/75 [=====
                                                                accuracy: 0.9718 - val_loss: 0.0865 - val_accuracy: 0.9697
Epoch 33
75/75 [=
     33/800
                                     Os 3ms/step - loss: 0.0891 - accuracy: 0.9726 - val loss: 0.0852 - val accuracy: 0.9710
Epoch 34/800
75/75 [====
                        :========1 - 0s 2ms/step - loss: 0.0876 - accuracy: 0.9726 - val loss: 0.0841 - val accuracy: 0.9710
Epoch 35/800
75/75
                     =========] - 0s 3ms/step - loss: 0.0865 - accuracy: 0.9722 - val_loss: 0.0830 - val_accuracy: 0.9710
     1
36/800
Epoch
                                     0s 3ms/step - loss: 0.0852 - accuracy: 0.9739 - val_loss: 0.0817 - val_accuracy: 0.9710
75/75 [====
Epoch 37/800
75/75 [==:
                                     0s 2ms/step - loss: 0.0844 - accuracy: 0.9722 - val loss: 0.0814 - val accuracy: 0.9710
Epoch 38/800
75/75 [====
                                        2ms/step - loss: 0.0834 - accuracy: 0.9731 - val_loss: 0.0805 - val_accuracy: 0.9710
     [=====
39/800
Epoch 39,
75/75 [==
                                        3ms/step - loss: 0.0825 - accuracy: 0.9739 - val_loss: 0.0803 - val_accuracy: 0.9710
Epoch 40/800
75/75 [=
                    Fnoch 41/800
75/75
                                        3ms/step - loss: 0.0810 - accuracy: 0.9739 - val loss: 0.0790 - val accuracy: 0.9697
Epoch
                                     0s 2ms/step - loss: 0.0800 - accuracy: 0.9743 - val loss: 0.0790 - val accuracy: 0.9697
75/75 [====
Epoch 43/800
75/75 [====
                        :========1 - 0s 2ms/step - loss: 0.0795 - accuracy: 0.9764 - val loss: 0.0782 - val accuracy: 0.9697
Epoch 44/800
75/75 [====
Epoch 45/800
                                                                accuracy: 0.9760 - val_loss: 0.0780 - val_accuracy: 0.9697
                                     0s 3ms/step - loss: 0.0784 - accuracy: 0.9769 - val_loss: 0.0766 - val_accuracy: 0.9722
75/75 [==
Epoch 46/800
75/75 [==:
                       och 47/800
75/75 [====
Epoch 48/800
                                     0s 3ms/step - loss: 0.0772 - accuracy: 0.9764 - val_loss: 0.0752 - val_accuracy: 0.9735
                                     Os 3ms/step - loss: 0.0763 - accuracy: 0.9773 - val loss: 0.0762 - val accuracy: 0.9722
75/75 [====
Epoch 49/800
75/75 [==
                                     0s 2ms/step - loss: 0.0761 - accuracy: 0.9777 - val loss: 0.0748 - val accuracy: 0.9722
Epoch 50/800
75/75 [====
                                                                accuracy: 0.9785 - val_loss: 0.0746 - val_accuracy: 0.9722
     51/800
Epoch 51,
75/75 [==
                                     Os 2ms/step - loss: 0.0753 - accuracy: 0.9777 - val_loss: 0.0744 - val_accuracy: 0.9722
Epoch 52/800
75/75
                      ========] - 0s 3ms/step - loss: 0.0748 - accuracy: 0.9794 - val loss: 0.0737 - val accuracy: 0.9710
Epoch 53/800
75/75 [====
                                        3ms/step - loss: 0.0744 - accuracy: 0.9777 - val_loss: 0.0733 - val_accuracy: 0.9722
     54/800
Epoch
                                     0s 3ms/step - loss: 0.0741 - accuracy: 0.9773 - val_loss: 0.0736 - val_accuracy: 0.9722
75/75 [====
Epoch 55/800
75/75 [====
                       ========] - 0s 3ms/step - loss: 0.0737 - accuracy: 0.9794 - val_loss: 0.0733 - val_accuracy: 0.9722
     56/800
                                     0s 2ms/step - loss: 0.0732 - accuracy: 0.9790 - val_loss: 0.0737 - val_accuracy: 0.9735
     57/800
Epoch
                               :===] - 0s 2ms/step - loss: 0.0729 - accuracy: 0.9811 - val loss: 0.0728 - val accuracy: 0.9722
75/75 [==
Epoch 58/800
75/75 F
                     59/800
Epoch
75/75
     60/800
Epoch
                        ========] - 0s 3ms/step - loss: 0.0720 - accuracy: 0.9798 - val loss: 0.0725 - val accuracy: 0.9722
75/75 [====
Epoch 61/800
75/75 [=
                    ========] - 0s 2ms/step - loss: 0.0716 - accuracy: 0.9802 - val loss: 0.0724 - val accuracy: 0.9722
     62/800
                                     0s 2ms/step - loss: 0.0714 - accuracy: 0.9802 - val_loss: 0.0722 - val_accuracy: 0.9722
75/75 [====
Epoch 63/800
                     75/75 [==
Fnoch 64/800
```

```
Epoch 65/800
                                      - 0s 3ms/step - loss: 0.0706 - accuracy: 0.9823 - val_loss: 0.0705 - val_accuracy: 0.9722
75/75 [===
Epoch 66/800
75/75 [==
                         Epoch 6:
     67/800
                                           3ms/step - loss: 0.0700 - accuracy: 0.9823 - val_loss: 0.0710 - val_accuracy: 0.9747
Epoch 68/800
                                        0s 3ms/step - loss: 0.0696 - accuracy: 0.9806 - val_loss: 0.0714 - val_accuracy: 0.9747
75/75 [====
Epoch 69/800
75/75 [==
                                        0s 3ms/step - loss: 0.0696 - accuracy: 0.9819 - val loss: 0.0716 - val accuracy: 0.9735
Epoch 70/800
75/75 [====
75/75 [==
                                           3ms/step - loss: 0.0691 - accuracy: 0.9815 - val_loss: 0.0705 - val_accuracy: 0.9722
Epoch 72/800
75/75
                                           3ms/step - loss: 0.0689 - accuracy: 0.9819 - val loss: 0.0703 - val accuracy: 0.9735
     73/800
                                                   - loss: 0.0687 -
                                                                    accuracy: 0.9819 - val_loss: 0.0702 - val_accuracy: 0.9735
      74/800
Epoch
                                        0s 2ms/step - loss: 0.0684 - accuracy: 0.9832 - val_loss: 0.0701 - val_accuracy: 0.9735
75/75 [====
Epoch 75/800
75/75 [==
                         76/800
                                           3ms/step - loss: 0.0679 - accuracy: 0.9823 - val_loss: 0.0700 - val_accuracy: 0.9735
      77/800
Epoch
                                        0s 3ms/step - loss: 0.0676 - accuracy: 0.9815 - val loss: 0.0698 - val accuracy: 0.9747
75/75 [===
Epoch 78/800
75/75 F
                                           3ms/step - loss: 0.0674 - accuracy: 0.9815 - val loss: 0.0696 - val accuracy: 0.9747
      79/800
Epoch
75/75
                                                                    accuracy: 0.9819 - val_loss: 0.0689 - val_accuracy: 0.9735
75/75 [====
Epoch 80/800
75/75 [==
                                        0s 4ms/step - loss: 0.0670 - accuracy: 0.9815 - val loss: 0.0691 - val accuracy: 0.9735
Epoch 81/800
75/75 [
                                        0s 3ms/step - loss: 0.0667 - accuracy: 0.9815 - val loss: 0.0689 - val accuracy: 0.9735
Epoch 82/800
75/75 [====
     [====-
83/800
Epoch
                                           3ms/step - loss: 0.0661 - accuracy: 0.9815 - val_loss: 0.0682 - val_accuracy: 0.9735
75/75 [====
Epoch 84/800
75/75 [:
                                        0s 3ms/step - loss: 0.0661 - accuracy: 0.9815 - val_loss: 0.0675 - val_accuracy: 0.9747
     85/800
                                                    - loss: 0.0658 - accuracy: 0.9823 - val_loss: 0.0677 -
Epoch 86/800
                                        0s 4ms/step - loss: 0.0656 - accuracy: 0.9815 - val loss: 0.0669 - val accuracy: 0.9760
75/75 [==
Epoch 87/800
75/75 I
                                      - 0s 4ms/step - loss: 0.0653 - accuracy: 0.9806 - val loss: 0.0666 - val accuracy: 0.9735
Epoch 88/800
75/75 [====
Epoch 89/800
                                           4ms/step - loss: 0.0651 - accuracy: 0.9815 - val loss: 0.0666 - val accuracy: 0.9735
75/75 [====
                                        0s 4ms/step - loss: 0.0649 - accuracy: 0.9819 - val loss: 0.0664 - val accuracy: 0.9747
Epoch 90/800
75/75 [====
                                           4ms/step - loss: 0.0647 - accuracy: 0.9811 - val_loss: 0.0664 - val_accuracy: 0.9747
Epoch 91/800
75/75 [====
Epoch 92/800
                                           4ms/step - loss: 0.0646 - accuracy: 0.9819 - val_loss: 0.0663 - val_accuracy: 0.9747
75/75 [=====
Epoch 93/800
                                        0s 3ms/step - loss: 0.0643 - accuracy: 0.9819 - val loss: 0.0663 - val accuracy: 0.9735
75/75
                                        0s 2ms/step - loss: 0.0640 - accuracy: 0.9819 - val loss: 0.0660 - val accuracy: 0.9735
      94/800
75/75 [=====
Epoch 95/800
75/75 [====
                                        0s 3ms/step - loss: 0.0636 - accuracy: 0.9815 - val loss: 0.0654 - val accuracy: 0.9760
Epoch 96/800
75/75 [=====
    97/800
                                           3ms/step - loss: 0.0633 - accuracy: 0.9815 - val_loss: 0.0654 - val_accuracy: 0.9735
Epoch 97
75/75 [=
                                        Os 3ms/step - loss: 0.0632 - accuracy: 0.9819 - val loss: 0.0655 - val accuracy: 0.9747
Epoch 98/800
75/75 [====
                           ======== ] - 0s 2ms/step - loss: 0.0630 - accuracy: 0.9819 - val loss: 0.0655 - val accuracy: 0.9760
Epoch 99/800
75/75
                                        0s 2ms/step - loss: 0.0628 - accuracy: 0.9806 - val_loss: 0.0650 - val_accuracy: 0.9747
      100/800
Epoch
                                        0s 3ms/step - loss: 0.0626 - accuracy: 0.9815 - val_loss: 0.0651 - val_accuracy: 0.9747
75/75 [=====
Epoch 101/800
75/75 [==
                                        0s 3ms/step - loss: 0.0625 - accuracy: 0.9819 - val loss: 0.0650 - val accuracy: 0.9747
Epoch 102/800
75/75 [=====
                                           2ms/step - loss: 0.0624 - accuracy: 0.9811 - val_loss: 0.0651 - val_accuracy: 0.9760
      103/800
Epoch
75/75
                                           3ms/step - loss: 0.0622 - accuracy: 0.9819 - val_loss: 0.0652 - val_accuracy: 0.9735
Epoch 104/800
75/75 [
                         Fnoch 105/800
75/75
                                           2ms/step - loss: 0.0619 - accuracy: 0.9811 - val loss: 0.0649 - val accuracy: 0.9747
      106/800
                                           2ms/step - loss: 0.0617 - accuracy: 0.9819 - val loss: 0.0646 - val accuracy: 0.9760
75/75 [=====
Epoch 107/800
75/75
75/75 [==
                                        0s 2ms/step - loss: 0.0616 - accuracy: 0.9819 - val loss: 0.0647 - val accuracy: 0.9747
Epoch 108/800
75/75 [=====
                                           2ms/step - loss: 0.0614 -
                                                                    accuracy: 0.9819 - val_loss: 0.0646 -
      109/800
                                        0s 3ms/step - loss: 0.0613 - accuracy: 0.9823 - val_loss: 0.0645 - val_accuracy: 0.9747
75/75 [==
Epoch 110/800
75/75 T
                         Fnoch 111/800
75/75
                                        0s 2ms/step - loss: 0.0611 - accuracy: 0.9819 - val_loss: 0.0643 - val_accuracy: 0.9747
Epoch 112/800
                                        0s 3ms/step - loss: 0.0609 - accuracy: 0.9823 - val loss: 0.0639 - val accuracy: 0.9760
75/75
75/75 [=====
Epoch 113/800
75/75
                                        0s 3ms/step - loss: 0.0608 - accuracy: 0.9819 - val loss: 0.0638 - val accuracy: 0.9760
Epoch 114/800
75/75 [=====
                                                                    accuracy: 0.9815 - val_loss: 0.0637 - val_accuracy: 0.9735
     115/800
Epoch 115
75/75 [=:
                                        0s 3ms/step - loss: 0.0605 - accuracy: 0.9819 - val_loss: 0.0641 - val_accuracy: 0.9747
Epoch 116/800
75/75
                                        0s 3ms/step - loss: 0.0604 - accuracy: 0.9832 - val loss: 0.0640 - val accuracy: 0.9747
Fpoch 117/800
75/75 [=====
     118/800
Epoch
                                        0s 2ms/step - loss: 0.0601 - accuracy: 0.9823 - val_loss: 0.0634 - val_accuracy: 0.9747
75/75 [==
Epoch 119/800
75/75 T
                                        0s 2ms/step - loss: 0.0599 - accuracy: 0.9832 - val loss: 0.0635 - val accuracy: 0.9747
Epoch 120/800
75/75 [=====
                                           3ms/step - loss: 0.0598 - accuracy: 0.9823 - val_loss: 0.0634 - val_accuracy: 0.9735
Epoch 121/800
                                        Os 3ms/step - loss: 0.0597 - accuracy: 0.9827 - val loss: 0.0634 - val accuracy: 0.9735
75/75 [=
Epoch 122/800
75/75
                         Epoch
75/75
     123/800
75/75 [=====
Epoch 124/800
75/75
                            =======] - 0s 3ms/step - loss: 0.0593 - accuracy: 0.9823 - val loss: 0.0632 - val accuracy: 0.9735
75/75 [=====
Epoch 125/800
75/75
                                        0s 2ms/step - loss: 0.0593 - accuracy: 0.9827 - val loss: 0.0632 - val accuracy: 0.9735
      126/800
                                        0s 2ms/step - loss: 0.0592 - accuracy: 0.9827 - val_loss: 0.0631 - val_accuracy: 0.9747
/5//5 [=====
Epoch 127/800
                         ========] - 0s 3ms/step - loss: 0.0589 - accuracy: 0.9827 - val_loss: 0.0631 - val_accuracy: 0.9747
75/75 [=
Fnoch 128/800
                   =========] - 0s 3ms/step - loss: 0.0589 - accuracy: 0.9827 - val_loss: 0.0630 - val_accuracy: 0.9747
```

	129/800 []	- (ðs.	3ms/step	_	loss:	0.0588 -	accuracy	: 0.9823	- val_loss:	0.0630 -	val_accuracy:	0.9747
	130/800	- 6	ac	3ms/sten	_	loss.	0 0587 -	accuracy	· 0 9827	- val loss	0 0630 -	val accuracy:	0 9747
Epoch	131/800												
	[=======] 132/800	- (ØS	3ms/step	-	loss:	0.0585 -	accuracy	: 0.982/	- val_loss:	0.0629 -	val_accuracy:	0.9/4/
	[=======] 133/800	- (ðs.	2ms/step	-	loss:	0.0585 -	accuracy	: 0.9827	- val_loss:	0.0633 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0584 -	accuracy	: 0.9823	- val_loss:	0.0630 -	val_accuracy:	0.9747
	134/800	- (ðs.	3ms/step	_	loss:	0.0583 -	accuracy	: 0.9827	- val_loss:	0.0629 -	val_accuracy:	0.9735
	135/800	- 6	as	3ms/sten	_	loss:	0.0582 -	accuracy	. 0.9832	- val loss:	0.0628 -	val accuracy:	0.9735
Epoch	136/800												
	[=======] 137/800	- (ðs.	3ms/step	-	loss:	0.0580 -	accuracy	: 0.9832	- val_loss:	0.0627 -	val_accuracy:	0.9735
	[=======] 138/800	- (ðs.	2ms/step	-	loss:	0.0579 -	accuracy	: 0.9823	- val_loss:	0.0627 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0577 -	accuracy	: 0.9819	- val_loss:	0.0627 -	val_accuracy:	0.9722
	139/800 [=======]	- (ðs.	3ms/step	-	loss:	0.0578 -	accuracy	: 0.9827	- val_loss:	0.0625 -	val_accuracy:	0.9747
	140/800	- 6	ac	2ms/sten	_	loss.	0 0577 -	accuracy	· 0 9823	- val loss	0 0625 -	val accuracy:	0 9735
Epoch	141/800												
	[=======] 142/800	- (05	zms/step	-	1055:	0.05/5 -	accuracy	: 0.9823	- vai_ioss:	0.0626 -	vai_accuracy:	0.9722
	[=======] 143/800	- (ðs.	3ms/step	-	loss:	0.0575 -	accuracy	: 0.9827	- val_loss:	0.0624 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0573 -	accuracy	: 0.9823	- val_loss:	0.0624 -	val_accuracy:	0.9735
75/75	144/800 [=======]	- (ðs.	4ms/step	-	loss:	0.0573 -	accuracy	: 0.9832	- val_loss:	0.0622 -	val_accuracy:	0.9735
	145/800 []	- (ðs.	4ms/step	_	loss:	0.0573 -	accuracy	: 0.9819	- val loss:	0.0623 -	val accuracy:	0.9722
Epoch	146/800												
Epoch	[=======] 147/800												
	[=======] 148/800	- (ðs.	4ms/step	-	loss:	0.0570 -	accuracy	: 0.9827	- val_loss:	0.0622 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0571 -	accuracy	: 0.9823	- val_loss:	0.0621 -	val_accuracy:	0.9735
75/75	149/800 []	- (ðs.	4ms/step	-	loss:	0.0570 -	accuracy	: 0.9832	- val_loss:	0.0615 -	val_accuracy:	0.9747
	150/800	- (ðs.	4ms/step	_	loss:	0.0567 -	accuracy	: 0.9827	- val_loss:	0.0612 -	val_accuracv:	0.9735
Epoch	151/800 []												
Epoch	152/800												
	[========] 153/800	- (ðs.	4ms/step	-	loss:	0.0567 -	accuracy	: 0.9827	- val_loss:	0.0615 -	val_accuracy:	0.9722
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0566 -	accuracy	: 0.9832	- val_loss:	0.0616 -	val_accuracy:	0.9722
75/75	154/800 [======]	- (ðs.	4ms/step	-	loss:	0.0565 -	accuracy	: 0.9832	- val_loss:	0.0615 -	val_accuracy:	0.9735
	155/800 []	- (ðs.	2ms/step	_	loss:	0.0563 -	accuracy	: 0.9832	- val_loss:	0.0618 -	val_accuracy:	0.9735
Epoch	156/800 []												
Epoch	157/800												
	[========] 158/800	- (ðs.	3ms/step	-	loss:	0.0560 -	accuracy	: 0.9832	- val_loss:	0.0617 -	val_accuracy:	0.9722
75/75	[======] 159/800	- (ðs.	2ms/step	-	loss:	0.0558 -	accuracy	: 0.9827	- val_loss:	0.0615 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0557 -	accuracy	: 0.9832	- val_loss:	0.0615 -	val_accuracy:	0.9735
	160/800 []	- (ðs.	3ms/step	_	loss:	0.0556 -	accuracy	: 0.9832	- val loss:	0.0616 -	val accuracy:	0.9735
Epoch	161/800												
Epoch	[======] 162/800												
	[========] 163/800	- (ðs.	2ms/step	-	loss:	0.0554 -	accuracy	: 0.9836	- val_loss:	0.0616 -	val_accuracy:	0.9747
75/75	[======] 164/800	- (ðs.	2ms/step	-	loss:	0.0553 -	accuracy	: 0.9832	- val_loss:	0.0614 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0551 -	accuracy	: 0.9840	- val_loss:	0.0612 -	val_accuracy:	0.9747
	165/800 [=======]	- (ðs.	2ms/step	_	loss:	0.0551 -	accuracy	: 0.9827	- val loss:	0.0611 -	val accuracy:	0.9735
Epoch	166/800 []							-		_			
Epoch	167/800							,		_		_ ′	
	[========] 168/800	- (ðs.	3ms/step	-	loss:	0.0550 -	accuracy	: 0.9836	- val_loss:	0.0609 -	val_accuracy:	0.9747
75/75	[======] 169/800	- (ðs.	2ms/step	-	loss:	0.0548 -	accuracy	: 0.9832	- val_loss:	0.0608 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0547 -	accuracy	: 0.9832	- val_loss:	0.0609 -	val_accuracy:	0.9735
	170/800 []	- (ðs.	2ms/step	_	loss:	0.0545 -	accuracy	: 0.9832	- val loss:	0.0609 -	val accuracy:	0.9735
Epoch	171/800 []												
Epoch	172/800												
	[=======] 173/800	- (ðs.	2ms/step	-	loss:	0.0544 -	accuracy	: 0.9836	- val_loss:	0.0604 -	val_accuracy:	0.9747
75/75	[=======] 174/800	- (ðs.	2ms/step	-	loss:	0.0544 -	accuracy	: 0.9840	- val_loss:	0.0604 -	val_accuracy:	0.9747
75/75	[======]	- (ðs.	2ms/step	-	loss:	0.0542 -	accuracy	: 0.9840	- val_loss:	0.0605 -	val_accuracy:	0.9735
	175/800 []	- (ðs.	3ms/step	_	loss:	0.0542 -	accuracy	: 0.9848	- val_loss:	0.0605 -	val_accuracv:	0.9735
Epoch	176/800												
Epoch	[=======] 177/800												
75/75	[======] 178/800	- (ðs.	3ms/step	-	loss:	0.0539 -	accuracy	: 0.9853	- val_loss:	0.0605 -	val_accuracy:	0.9747
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0537 -	accuracy	: 0.9844	- val_loss:	0.0604 -	val_accuracy:	0.9747
75/75	179/800 [=======]	- (ðs.	2ms/step	-	loss:	0.0537 -	accuracy	: 0.9844	- val_loss:	0.0602 -	val_accuracy:	0.9735
	180/800	- 6	as	2ms/sten	_	loss:	0.0536 -	accuracy	. 0.9844	- val loss:	0.0608 -	val accuracy:	0.9747
Epoch	181/800							-		_			
	[=======] 182/800	- (05	3ms/step	-	1055:	0.0537 -	accuracy	: 0.9848	- vai_ioss:	0.0604 -	vai_accuracy:	0.9735
	[=======] 183/800	- (ðs.	3ms/step	-	loss:	0.0536 -	accuracy	: 0.9853	- val_loss:	0.0602 -	val_accuracy:	0.9735
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0533 -	accuracy	: 0.9853	- val_loss:	0.0601 -	val_accuracy:	0.9735
75/75	184/800 []	- (ðs.	3ms/step	-	loss:	0.0531 -	accuracy	: 0.9861	- val_loss:	0.0598 -	val_accuracy:	0.9747
Epoch	185/800 []												
Epoch	186/800												
Epoch	[=======] 187/800												
75/75	[=======] 188/800	- (ðs.	3ms/step	-	loss:	0.0529 -	accuracy	: 0.9857	- val_loss:	0.0592 -	val_accuracy:	0.9773
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0529 -	accuracy	: 0.9840	- val_loss:	0.0593 -	val_accuracy:	0.9773
75/75	189/800 []	- (ðs.	3ms/step	-	loss:	0.0528 -	accuracy	: 0.9848	- val_loss:	0.0593 -	val_accuracy:	0.9760
	190/800 []	- 6	ðs.	3ms/sten	_	loss:	0.0526 -	accuracy	: 0.9853	- val loss	0.0594 -	val accuracy.	0.9735
Epoch	191/800												
	[=======] 192/800	- (0 5	∠ms/step	-	1022:	v.v526 -	accuracy	. ७.५४४७	- vaT_1022;	v.0594 -	vai_accuracy:	v.9/4/
	[]	- (ðs.	3ms/step	-	loss:	0.0525 -	accuracy	: 0.9844	- val_loss:	0.0594 -	val_accuracy:	0.9747

Fnoch	193/800									
75/75	[=======]	- 0s	3ms/step	- loss:	0.0523	- accuracy:	0.9840 -	val_loss:	0.0595	- val_accuracy: 0.9735
	194/800 [========]	- 0s	3ms/step	- loss:	0.0522	- accuracv:	0.9857 -	val loss:	0.0594	- val accuracy: 0.9760
Epoch	195/800									
	[=========] 196/800	- 0s	3ms/step	- loss:	0.0523	- accuracy:	0.9844 -	val_loss:	0.0594	- val_accuracy: 0.9735
75/75	[]	- 0s	3ms/step	- loss:	0.0521	- accuracy:	0.9853 -	val_loss:	0.0594	- val_accuracy: 0.9747
	197/800 []	- 0s	3ms/step	- loss:	0.0521	- accuracy:	0.9853 -	val_loss:	0.0594	- val_accuracy: 0.9747
	198/800	0.0	2ms /ston	10001	0.0510		0.0040	wal lass.	0.0502	a company a 0747
	[=========] 199/800	- 05	3ms/step	- 1055:	0.0519	- accuracy:	0.9848 -	vai_ioss:	0.0593	- Val_accuracy: 0.9747
	[========]	- 0s	3ms/step	- loss:	0.0519	- accuracy:	0.9853 -	val_loss:	0.0591	- val_accuracy: 0.9747
	200/800 []	- 0s	2ms/step	- loss:	0.0518	- accuracy:	0.9844 -	val_loss:	0.0592	- val_accuracy: 0.9735
	201/800	ac.	2mc/ston	1000	0 0516	2001112011	0 0040	val loce:	0 0505	val accuracy: 0 0747
	202/800	- 03	21113/3сер	- 1033.	0.0310	- accuracy.	0.5040	va1_1033.	0.0333	- var_accuracy. 0.5747
	[=======] 203/800	- 0s	3ms/step	- loss:	0.0517	- accuracy:	0.9857 -	val_loss:	0.0592	- val_accuracy: 0.9747
75/75	[]	- 0s	3ms/step	- loss:	0.0516	- accuracy:	0.9848 -	val_loss:	0.0589	- val_accuracy: 0.9760
	204/800	- As	Ams/sten	- loss	0 0513	- accuracy:	0 9853 -	val loss:	0 0590	- val_accuracy: 0.9735
Epoch	205/800									
	[=========] 206/800	- 0s	4ms/step	- loss:	0.0514	- accuracy:	0.9853 -	val_loss:	0.0590	- val_accuracy: 0.9760
75/75	[]	- 0s	4ms/step	- loss:	0.0513	- accuracy:	0.9848 -	val_loss:	0.0589	- val_accuracy: 0.9747
	207/800	- 0s	3ms/step	- loss:	0.0513	- accuracy:	0.9844 -	val loss:	0.0588	- val accuracy: 0.9760
Epoch	208/800					-		_		
	[========] 209/800	- 0s	4ms/step	- loss:	0.0511	- accuracy:	0.9853 -	val_loss:	0.0586	- val_accuracy: 0.9760
75/75	[]	- 0s	4ms/step	- loss:	0.0511	- accuracy:	0.9848 -	val_loss:	0.0587	- val_accuracy: 0.9760
	210/800 []	- 0s	4ms/step	- loss:	0.0510	- accuracy:	0.9861 -	val_loss:	0.0585	- val_accuracy: 0.9760
Epoch	211/800									
Epoch	[=======] 212/800									
	[=======] 213/800	- 0s	4ms/step	- loss:	0.0509	- accuracy:	0.9857 -	val_loss:	0.0585	- val_accuracy: 0.9760
75/75	[]	- 0s	4ms/step	- loss:	0.0509	- accuracy:	0.9844 -	val_loss:	0.0586	- val_accuracy: 0.9760
	214/800	- As	4ms/sten	- loss:	0.0508	- accuracy:	0.9853 -	val loss:	0.0584	- val accuracy: 0.9773
Epoch	215/800							_		= ,
	[=======] 216/800	- 0s	4ms/step	- loss:	0.0507	- accuracy:	0.9853 -	val_loss:	0.0583	- val_accuracy: 0.9760
75/75	[======]	- 0s	4ms/step	- loss:	0.0505	- accuracy:	0.9844 -	val_loss:	0.0582	- val_accuracy: 0.9760
	217/800	- 0s	3ms/step	- loss:	0.0505	- accuracy:	0.9844 -	val loss:	0.0584	- val accuracy: 0.9760
Epoch	218/800									
	[=========] 219/800	- 0s	2ms/step	- loss:	0.0505	- accuracy:	0.9853 -	val_loss:	0.0583	- val_accuracy: 0.9760
75/75	[]	- 0s	3ms/step	- loss:	0.0503	- accuracy:	0.9848 -	val_loss:	0.0586	- val_accuracy: 0.9747
	220/800 []	- 0s	3ms/step	- loss:	0.0503	- accuracy:	0.9861 -	val_loss:	0.0581	- val_accuracy: 0.9760
Epoch	221/800									
	[========] 222/800	- 05	oms/step	- 1055:	0.0502	- accuracy:	0.9855 -	Va1_1055:	0.0361	- Val_accuracy: 0.9760
	[=======] 223/800	- 0s	2ms/step	- loss:	0.0500	- accuracy:	0.9853 -	val_loss:	0.0582	- val_accuracy: 0.9760
75/75	[]	- 0s	2ms/step	- loss:	0.0501	- accuracy:	0.9853 -	val_loss:	0.0581	- val_accuracy: 0.9785
	224/800	- 00	3ms/sten	- 1000	0 0501	- accuracy:	0 9853 -	val loss:	0 0580	- val accuracy: 0 9773
Epoch	225/800									
	[=========] 226/800	- 0s	2ms/step	- loss:	0.0499	- accuracy:	0.9857 -	val_loss:	0.0579	- val_accuracy: 0.9760
75/75	[]	- 0s	2ms/step	- loss:	0.0499	- accuracy:	0.9848 -	val_loss:	0.0578	- val_accuracy: 0.9773
	227/800 [========]	- 05	3ms/sten	- loss:	0.0498	- accuracy:	0.9853 -	val loss:	0.0578	- val accuracy: 0.9773
Epoch	228/800									
	[=========] 229/800	- 0s	3ms/step	- loss:	0.0498	- accuracy:	0.9840 -	val_loss:	0.0577	- val_accuracy: 0.9773
	[]	- 0s	3ms/step	- loss:	0.0497	- accuracy:	0.9857 -	val_loss:	0.0579	- val_accuracy: 0.9773
	230/800	- 0s	3ms/step	- loss:	0.0498	- accuracy:	0.9853 -	val_loss:	0.0577	- val_accuracy: 0.9773
	231/800	ac.	2mc/ston	1000	0 0406	2001112011	0.0057	val loce:	0 0576	val accuracy: 0 0795
	232/800	- 05	oms/step	- 1055:	0.0496	- accuracy:	0.9857 -	Va1_1055:	0.0576	- Val_accuracy: 0.9785
	[=======] 233/800	- 0s	3ms/step	- loss:	0.0495	- accuracy:	0.9848 -	val_loss:	0.0576	- val_accuracy: 0.9798
75/75	[]	- 0s	2ms/step	- loss:	0.0496	- accuracy:	0.9857 -	val_loss:	0.0575	- val_accuracy: 0.9773
	234/800	- 00	3ms/sten	- 1000	0 0191	- accuracy:	0 0848 -	val loss:	0 0576	- val accuracy: 0 9785
Epoch	235/800									
	[=========] 236/800	- 0s	2ms/step	- loss:	0.0493	- accuracy:	0.9865 -	val_loss:	0.0574	- val_accuracy: 0.9773
75/75	[]	- 0s	3ms/step	- loss:	0.0494	- accuracy:	0.9861 -	val_loss:	0.0574	- val_accuracy: 0.9773
	237/800 []	- 0s	2ms/step	- loss:	0.0492	- accuracv:	0.9861 -	val loss:	0.0575	- val accuracy: 0.9760
Epoch	238/800									
Epoch	[=========] 239/800					-		_		
75/75	[=======] 240/800	- 0s	3ms/step	- loss:	0.0490	- accuracy:	0.9848 -	val_loss:	0.0574	- val_accuracy: 0.9773
	240/800 [========]	- 0s	3ms/step	- loss:	0.0491	- accuracy:	0.9857 -	val_loss:	0.0594	- val_accuracy: 0.9773
	241/800 []	ac.	2mc/ston	1000	0 0407	2001112011	0.0052	val loce:	0 0577	val accuracy: 0 0772
	242/800	- 05	Jiiis/ scep	- 1055.	0.0437	- accuracy.	0.9833 -	vai_1055.	0.03//	- Vai_accuracy. 0.5773
	[=======] 243/800	- 0s	2ms/step	- loss:	0.0491	- accuracy:	0.9853 -	val_loss:	0.0573	- val_accuracy: 0.9760
75/75	[]	- 0s	3ms/step	- loss:	0.0490	- accuracy:	0.9848 -	val_loss:	0.0572	- val_accuracy: 0.9773
	244/800 []	- 05	3ms/sten	- loss:	0.0489	- accuracy:	0.9857 -	val loss:	0.0573	- val accuracy: 0.9773
Epoch	245/800									
	[========] 246/800	- 0s	3ms/step	- loss:	0.0489	- accuracy:	0.9857 -	val_loss:	0.0575	- val_accuracy: 0.9785
75/75	[======]	- 0s	3ms/step	- loss:	0.0489	- accuracy:	0.9857 -	val_loss:	0.0573	- val_accuracy: 0.9773
	247/800 []	- 0s	3ms/step	- loss:	0.0488	- accuracy:	0.9861 -	val_loss:	0.0570	- val_accuracy: 0.9785
Epoch	248/800					-		_		
	[=========] 249/800	- Øs	∠ms/step	- 10SS:	v.0486	- accuracy:	v.9857 -	var_toss:	0.0572	- vai_accuracy: 0.9760
75/75	[======]	- 0s	3ms/step	- loss:	0.0487	- accuracy:	0.9853 -	val_loss:	0.0571	- val_accuracy: 0.9773
75/75	250/800 [=======]	- 0s	3ms/step	- loss:	0.0485	- accuracy:	0.9844 -	val_loss:	0.0573	- val_accuracy: 0.9773
Epoch	251/800 []									
Epoch	252/800									
75/75	[========] 253/800	- 0s	3ms/step	- loss:	0.0485	- accuracy:	0.9848 -	val_loss:	0.0572	- val_accuracy: 0.9760
75/75	[]	- 0s	3ms/step	- loss:	0.0484	- accuracy:	0.9857 -	val_loss:	0.0570	- val_accuracy: 0.9773
	254/800 [=======]	- As	3ms/sten	- 10551	0.0482	- accuracy:	0.9861 -	val loss:	0.0560	- val accuracy: 0 9773
Epoch	255/800					-		_		
	[========] 256/800	- 0s	3ms/step	- loss:	0.0481	- accuracy:	0.9857 -	val_loss:	0.0573	- val_accuracy: 0.9773
	[]	- 0s	2ms/step	- loss:	0.0484	- accuracy:	0.9857 -	val_loss:	0.0570	- val_accuracy: 0.9773

```
Epoch 257/800
                                           0s 3ms/step - loss: 0.0482 - accuracy: 0.9857 - val_loss: 0.0570 - val_accuracy: 0.9760
75/75 [==
Epoch 258/800
75/75 [==
                                           0s 3ms/step - loss: 0.0483 - accuracy: 0.9853 - val loss: 0.0570 - val accuracy: 0.9773
Epoch 259/800
75/75 [=====
                                              3ms/step - loss: 0.0481 - accuracy: 0.9861 - val_loss: 0.0571 - val_accuracy: 0.9773
Epoch 260/800
                                           0s 3ms/step - loss: 0.0482 - accuracy: 0.9857 - val_loss: 0.0569 - val_accuracy: 0.9785
75/75 [==
Epoch 261/800
75/75 [==
                                           0s 3ms/step - loss: 0.0480 - accuracy: 0.9853 - val loss: 0.0572 - val accuracy: 0.9773
      262/800
      [=====
263/800
75/75 [==
                                              3ms/step - loss: 0.0480 - accuracy: 0.9861 - val_loss: 0.0572 - val_accuracy: 0.9773
Epoch 264/800
75/75
                                              4ms/step - loss: 0.0479 - accuracy: 0.9857 - val loss: 0.0571 - val accuracy: 0.9785
Epoch 265/800
75/75 [=====
                                                         loss: 0.0480 -
                                                                         accuracy: 0.9853 - val_loss: 0.0570 - val_accuracy: 0.9760
      266/800
Epoch
                                              4ms/step - loss: 0.0477 - accuracy: 0.9857 - val_loss: 0.0573 - val_accuracy: 0.9773
75/75 [==
Epoch 267/800
75/75 [==
                                        - 0s 4ms/step - loss: 0.0477 - accuracy: 0.9857 - val loss: 0.0570 - val accuracy: 0.9773
      268/800
                                              3ms/step - loss: 0.0478 - accuracy: 0.9848 - val_loss: 0.0570 - val_accuracy: 0.9773
      269/800
Epoch
                                           0s 3ms/step - loss: 0.0477 - accuracy: 0.9853 - val loss: 0.0570 - val accuracy: 0.9760
75/75 [===
Epoch 270/800
75/75
                                              3ms/step - loss: 0.0476 - accuracy: 0.9857 - val loss: 0.0571 - val accuracy: 0.9760
Epoch
75/75
      271/800
75/75 [=====
Epoch 272/800
75/75 [=====
Epoch 273/800
                                           0s 3ms/step - loss: 0.0475 - accuracy: 0.9861 - val loss: 0.0575 - val accuracy: 0.9760
75/75 [
                                           0s 3ms/step - loss: 0.0476 - accuracy: 0.9861 - val loss: 0.0567 - val accuracy: 0.9785
Epoch 274/800
75/75 [=====
      275/800
Epoch
                                              4ms/step - loss: 0.0474 - accuracy: 0.9857 - val_loss: 0.0569 - val_accuracy: 0.9773
75/75 [==
Epoch 276/800
75/75
                                              4ms/step - loss: 0.0475 - accuracy: 0.9853 - val_loss: 0.0570 - val_accuracy: 0.9773
  och 277/800
                                                         loss: 0.0473 - accuracy: 0.9853 - val_loss: 0.0568 -
Epoch 278/806
                                           0s 3ms/step - loss: 0.0473 - accuracy: 0.9865 - val loss: 0.0569 - val accuracy: 0.9773
75/75 [==
Epoch 279/800
75/75 I
                                           0s 3ms/step - loss: 0.0473 - accuracy: 0.9857 - val loss: 0.0570 - val accuracy: 0.9773
      280/800
                                              3ms/step - loss: 0.0473 - accuracy: 0.9857 - val loss: 0.0573 - val accuracy: 0.9785
      281/800
Epoch
75/75 [==
                                           0s 2ms/step - loss: 0.0472 - accuracy: 0.9865 - val loss: 0.0572 - val accuracy: 0.9773
Epoch 282/800
75/75 [=====
                                              3ms/step - loss: 0.0471 - accuracy: 0.9857 - val_loss: 0.0572 - val_accuracy: 0.9773
      283/800
                                              3ms/step - loss: 0.0471 - accuracy: 0.9857 - val_loss: 0.0577 - val_accuracy: 0.9773
75/75 [=====
Epoch 284/800
75/75 [===
                                           0s 3ms/step - loss: 0.0471 - accuracy: 0.9857 - val loss: 0.0571 - val accuracy: 0.9773
Fnoch 285/800
75/75
                                              2ms/step - loss: 0.0469 - accuracy: 0.9853 - val loss: 0.0572 - val accuracy: 0.9773
      1
286/800
75/75 [=====
Epoch 287/800
75/75 [==
                                              3ms/step - loss: 0.0471 - accuracy: 0.9848 - val loss: 0.0572 - val accuracy: 0.9773
Epoch 288/800
75/75 [=====
                                              2ms/step - loss: 0.0469 -
                                                                         accuracy: 0.9853 - val_loss: 0.0573 - val_accuracy: 0.9760
Epoch 28:
       289/800
                                                        - loss: 0.0467 - accuracy: 0.9857 - val loss: 0.0573 - val accuracy: 0.9773
Epoch 290/800
75/75 [==
                                           0s 2ms/step - loss: 0.0467 - accuracy: 0.9853 - val loss: 0.0570 - val accuracy: 0.9773
Epoch 291/800
75/75 [
                                              3ms/step - loss: 0.0468 - accuracy: 0.9853 - val_loss: 0.0573 - val_accuracy: 0.9773
      1
292/800
                                           0s 3ms/step - loss: 0.0466 - accuracy: 0.9857 - val_loss: 0.0572 - val_accuracy: 0.9773
75/75 [=====
Epoch 293/800
75/75 [==:
                                           0s 3ms/step - loss: 0.0465 - accuracy: 0.9857 - val loss: 0.0574 - val accuracy: 0.9785
Epoch 294/800
75/75 [=====
                                                                         accuracy: 0.9865 - val_loss: 0.0575 - val_accuracy: 0.9773
                                              2ms/step - loss: 0.0465 -
       L==---
295/800
Epoch 295,
75/75 [==:
                                              3ms/step - loss: 0.0465 - accuracy: 0.9870 - val_loss: 0.0573 - val_accuracy: 0.9773
Epoch 296/800
75/75 [=:
                                           0s 3ms/step - loss: 0.0463 - accuracy: 0.9865 - val loss: 0.0573 - val accuracy: 0.9773
Fnoch 297/800
75/75
                                              3ms/step - loss: 0.0463 - accuracy: 0.9865 - val loss: 0.0571 - val accuracy: 0.9773
      298/800
                                              2ms/step - loss: 0.0464 - accuracy: 0.9848 - val loss: 0.0573 - val accuracy: 0.9773
75/75 [=====
Epoch 299/800
75/75
75/75 [==
                                              2ms/step - loss: 0.0463 - accuracy: 0.9853 - val loss: 0.0575 - val accuracy: 0.9760
Epoch
75/75
      300/800
                                                         loss: 0.0462 -
                                                                         accuracy: 0.9857 - val_loss: 0.0574 - val_accuracy: 0.9785
      301/800
                                           0s 3ms/step - loss: 0.0462 - accuracy: 0.9848 - val_loss: 0.0573 - val_accuracy: 0.9785
75/75 [==
Epoch
      302/800
75/75
                                        - 0s 3ms/step - loss: 0.0462 - accuracy: 0.9853 - val loss: 0.0574 - val accuracy: 0.9798
      303/800
75/75
                                              2ms/step - loss: 0.0461 - accuracy: 0.9853 - val_loss: 0.0574 - val_accuracy: 0.9785
      304/800
Epoch
75/75 [=====
Epoch 305/800
                                           0s 2ms/step - loss: 0.0460 - accuracy: 0.9861 - val loss: 0.0574 - val accuracy: 0.9773
75/75 [==
                                           0s 3ms/step - loss: 0.0460 - accuracy: 0.9853 - val loss: 0.0579 - val accuracy: 0.9773
      306/800
                                                                         accuracy: 0.9857 - val_loss: 0.0579 - val_accuracy: 0.9773
      [=====
307/800
Epoch 307
75/75 [==
                                              3ms/step - loss: 0.0461 - accuracy: 0.9844 - val_loss: 0.0576 - val_accuracy: 0.9773
      308/800
Epoch
75/75
                                           0s 3ms/step - loss: 0.0459 - accuracy: 0.9857 - val loss: 0.0575 - val accuracy: 0.9798
      309/800
      310/800
Epoch
                                              3ms/step - loss: 0.0457 - accuracy: 0.9857 - val_loss: 0.0579 - val_accuracy: 0.9798
75/75
Epoch 311/800
75/75 F
                                              2ms/step - loss: 0.0459 - accuracy: 0.9844 - val loss: 0.0573 - val accuracy: 0.9785
      312/800
                                                       - loss: 0.0458 - accuracy: 0.9857 - val_loss: 0.0577 - val_accuracy: 0.9785
      313/800
Epoch
                                           0s 3ms/step - loss: 0.0458 - accuracy: 0.9844 - val loss: 0.0579 - val accuracy: 0.9785
75/75 [=
Epoch 314/800
75/75
                                           0s 3ms/step - loss: 0.0457 - accuracy: 0.9848 - val loss: 0.0579 - val accuracy: 0.9785
Epoch
75/75
      315/800
      316/800
Epoch
75/75
                                           0s 3ms/step - loss: 0.0453 - accuracy: 0.9853 - val loss: 0.0578 - val accuracy: 0.9785
      317/800
Epoch
75/75
                                           0s 3ms/step - loss: 0.0455 - accuracy: 0.9857 - val loss: 0.0578 - val accuracy: 0.9785
      318/800
                                              2ms/step - loss: 0.0455 - accuracy: 0.9848 - val_loss: 0.0578 - val_accuracy: 0.9773
      319/800
                           :=======] - 0s 2ms/step - loss: 0.0453 - accuracy: 0.9857 - val_loss: 0.0577 - val_accuracy: 0.9785
75/75 [==
Fnoch 320/800
                     :========] - 0s 3ms/step - loss: 0.0454 - accuracy: 0.9857 - val_loss: 0.0576 - val_accuracy: 0.9785
```

	321/800 [=======]	- (0s	3ms/step	-	loss:	0.0453 -	accuracy	: 0.9853	- val_loss:	0.0575 -	val_accuracy:	0.9785
	322/800 [=========]	- (0s	3ms/step	_	loss:	0.0453 -	accuracy	: 0.9848	- val loss:	0.0577 -	val accuracy:	0.9773
Epoch	323/800												
	[=======] 324/800	- (ØS	2ms/step	-	loss:	0.0453 -	accuracy	: 0.9848	- val_loss:	0.05// -	val_accuracy:	0.9785
	[=======] 325/800	- (0s	3ms/step	-	loss:	0.0452 -	accuracy	: 0.9865	- val_loss:	0.0576 -	val_accuracy:	0.9785
75/75	[]	- (0s	3ms/step	-	loss:	0.0452 -	accuracy	: 0.9853	- val_loss:	0.0578 -	val_accuracy:	0.9798
75/75	326/800 []	- (0s	4ms/step	-	loss:	0.0452 -	accuracy	: 0.9848	- val_loss:	0.0578 -	val_accuracy:	0.9785
	327/800 []	- (0s	4ms/step	_	loss:	0.0450 -	accuracy	: 0.9848	- val loss:	0.0571 -	val accuracy:	0.9798
Epoch	328/800												
Epoch	[=======] 329/800												
	[=======] 330/800	- (0s	3ms/step	-	loss:	0.0448 -	accuracy	: 0.9853	- val_loss:	0.0575 -	val_accuracy:	0.9773
	[======] 331/800	- (0s	3ms/step	-	loss:	0.0450 -	accuracy	: 0.9853	- val_loss:	0.0576 -	val_accuracy:	0.9785
75/75	[]	- (0s	3ms/step	-	loss:	0.0449 -	accuracy	: 0.9848	- val_loss:	0.0577 -	val_accuracy:	0.9798
	332/800 []	- (0s	3ms/step	_	loss:	0.0448 -	accuracy	: 0.9848	- val_loss:	0.0578 -	val_accuracy:	0.9773
	333/800 []	- 1	as	4ms/sten	_	loss.	0 0447 -	accuracy	· 0 9857	- val loss:	0 0578 -	val accuracy:	0 9785
Epoch	334/800												
	[=======] 335/800	- (ØS	3ms/step	-	loss:	0.0449 -	accuracy	: 0.9840	- val_loss:	0.0581 -	val_accuracy:	0.9//3
	[=======] 336/800	- (0s	4ms/step	-	loss:	0.0450 -	accuracy	: 0.9861	- val_loss:	0.0616 -	val_accuracy:	0.9760
75/75	[]	- (0s	4ms/step	-	loss:	0.0457 -	accuracy	: 0.9857	- val_loss:	0.0580 -	val_accuracy:	0.9773
	337/800 [=======]	- (0s	4ms/step	-	loss:	0.0447 -	accuracy	: 0.9853	- val_loss:	0.0580 -	val_accuracy:	0.9773
	338/800 []	- (0s	4ms/step	_	loss:	0.0447 -	accuracy	: 0.9857	- val loss:	0.0581 -	val accuracy:	0.9773
Epoch	339/800												
Epoch	[======] 340/800												
	[=======] 341/800	- (0s	3ms/step	-	loss:	0.0445 -	accuracy	: 0.9848	- val_loss:	0.0578 -	val_accuracy:	0.9773
75/75	[======] 342/800	- (0s	3ms/step	-	loss:	0.0445 -	accuracy	: 0.9857	- val_loss:	0.0578 -	val_accuracy:	0.9785
75/75	[]	- (0s	3ms/step	-	loss:	0.0444 -	accuracy	: 0.9853	- val_loss:	0.0578 -	val_accuracy:	0.9785
	343/800 [=======]	- (0s	3ms/step	_	loss:	0.0445 -	accuracy	: 0.9853	- val_loss:	0.0579 -	val_accuracy:	0.9785
	344/800 []	- 1	ac	3ms/stan	_	loce.	0 0115 -	accuracy	· 0 0853	- val loss:	0 0580 -	val accuracy:	0 0708
Epoch	345/800												
	[=======] 346/800	- (0s	3ms/step	-	loss:	0.0446 -	accuracy	: 0.9853	- val_loss:	0.0578 -	val_accuracy:	0.9811
	[=======] 347/800	- (0s	3ms/step	-	loss:	0.0443 -	accuracy	: 0.9857	- val_loss:	0.0579 -	val_accuracy:	0.9785
75/75	[]	- (0s	3ms/step	-	loss:	0.0444 -	accuracy	: 0.9857	- val_loss:	0.0573 -	val_accuracy:	0.9785
	348/800 [=======]	- (0s	3ms/step	-	loss:	0.0445 -	accuracy	: 0.9853	- val_loss:	0.0575 -	val_accuracy:	0.9798
	349/800 []	- (0s	3ms/step	_	loss:	0.0440 -	accuracy	: 0.9861	- val loss:	0.0574 -	val accuracy:	0.9773
Epoch	350/800												
Epoch	[=======] 351/800												
	[========] 352/800	- (0s	2ms/step	-	loss:	0.0441 -	accuracy	: 0.9853	- val_loss:	0.0578 -	val_accuracy:	0.9773
75/75	[=======] 353/800	- (0s	3ms/step	-	loss:	0.0441 -	accuracy	: 0.9848	- val_loss:	0.0581 -	val_accuracy:	0.9785
75/75	[]	- (0s	3ms/step	-	loss:	0.0441 -	accuracy	: 0.9853	- val_loss:	0.0577 -	val_accuracy:	0.9811
	354/800 [=======]	- (0s	2ms/step	_	loss:	0.0441 -	accuracy	: 0.9848	- val_loss:	0.0577 -	val_accuracy:	0.9798
	355/800 [=======]	- (9s	2ms/sten	_	loss:	0.0439 -	accuracy	. 0.9861	- val loss:	0.0580 -	val accuracy:	0.9785
Epoch	356/800							-		_			
Epoch	[=======] 357/800									_		val_accuracy:	
	[=======] 358/800	- (0s	3ms/step	-	loss:	0.0437 -	accuracy	: 0.9857	- val_loss:	0.0580 -	val_accuracy:	0.9760
75/75	[=======] 359/800	- (0s	3ms/step	-	loss:	0.0439 -	accuracy	: 0.9848	- val_loss:	0.0579 -	val_accuracy:	0.9798
75/75	[]	- (0s	3ms/step	-	loss:	0.0437 -	accuracy	: 0.9853	- val_loss:	0.0580 -	val_accuracy:	0.9773
	360/800 []	- (0s	3ms/step	_	loss:	0.0439 -	accuracy	: 0.9848	- val loss:	0.0579 -	val accuracy:	0.9785
Epoch	361/800 []												
Epoch	362/800												
	[========] 363/800	- (0s	3ms/step	-	loss:	0.0435 -	accuracy	: 0.9861	- val_loss:	0.0581 -	val_accuracy:	0.9785
75/75	[=======] 364/800	- (0s	3ms/step	-	loss:	0.0437 -	accuracy	: 0.9853	- val_loss:	0.0580 -	val_accuracy:	0.9798
75/75	[======]	- (0s	3ms/step	-	loss:	0.0436 -	accuracy	: 0.9861	- val_loss:	0.0579 -	val_accuracy:	0.9785
	365/800 [=======]	- (0s	2ms/step	_	loss:	0.0435 -	accuracy	: 0.9865	- val_loss:	0.0580 -	val_accuracy:	0.9773
	366/800	- (as	3ms/sten	_	loss.	0 0436 -	accuracy	· a 9857	- val loss:	0 0580 -	val accuracy:	0 9785
Epoch	367/800							-		_			
Epoch	[=======] 368/800												
75/75	[=======] 369/800	- (0s	3ms/step	-	loss:	0.0434 -	accuracy	: 0.9857	- val_loss:	0.0579 -	val_accuracy:	0.9798
75/75	[]	- (0s	3ms/step	-	loss:	0.0434 -	accuracy	: 0.9861	- val_loss:	0.0580 -	val_accuracy:	0.9773
75/75	370/800 [======]	- (0s	3ms/step	-	loss:	0.0433 -	accuracy	: 0.9853	- val_loss:	0.0579 -	val_accuracy:	0.9811
Epoch	371/800 []												
Epoch	372/800												
	[=======] 373/800	- (0s	3ms/step	-	loss:	0.0433 -	accuracy	: 0.9853	- val_loss:	0.0578 -	val_accuracy:	0.9798
	[======] 374/800	- (0s	2ms/step	-	loss:	0.0433 -	accuracy	: 0.9857	- val_loss:	0.0580 -	val_accuracy:	0.9798
75/75	[]	- (0s	2ms/step	-	loss:	0.0432 -	accuracy	: 0.9861	- val_loss:	0.0581 -	val_accuracy:	0.9773
	375/800 [=======]	- (0s	2ms/step	_	loss:	0.0433 -	accuracy	: 0.9861	- val_loss:	0.0576 -	val_accuracy:	0.9811
Epoch	376/800 []												
Epoch	377/800												
Epoch	[=======] 378/800												
75/75	[=======] 379/800	- (0s	3ms/step	-	loss:	0.0432 -	accuracy	: 0.9857	- val_loss:	0.0613 -	val_accuracy:	0.9747
75/75	[]	- (0s	3ms/step	-	loss:	0.0441 -	accuracy	: 0.9865	- val_loss:	0.0586 -	val_accuracy:	0.9760
75/75	380/800 [======]	- (0s	3ms/step	-	loss:	0.0430 -	accuracy	: 0.9861	- val_loss:	0.0580 -	val_accuracy:	0.9773
	381/800 []	- (0s	3ms/step	_	loss:	0.0430 -	accuracy	: 0.9853	- val_loss:	0.0578 -	val_accuracv:	0.9798
Epoch	382/800												
Epoch	[======] 383/800												
	[=======] 384/800	- (0s	3ms/step	-	loss:	0.0429 -	accuracy	: 0.9861	- val_loss:	0.0580 -	val_accuracy:	0.9773
	[======]	- (0s	2ms/step	-	loss:	0.0429 -	accuracy	: 0.9857	- val_loss:	0.0580 -	val_accuracy:	0.9798

```
Epoch 385/800
                                    - 0s 3ms/step - loss: 0.0429 - accuracy: 0.9861 - val_loss: 0.0578 - val_accuracy: 0.9811
75/75 [===
Epoch 386/800
75/75 [==:
                        387/800
                                        3ms/step - loss: 0.0426 - accuracy: 0.9861 - val_loss: 0.0578 - val_accuracy: 0.9785
     388/800
Epoch
                                      0s 4ms/step - loss: 0.0428 - accuracy: 0.9853 - val_loss: 0.0578 - val_accuracy: 0.9798
75/75 [=====
Epoch 389/800
75/75 [==
                       390/800
      [=====
391/800
                                        3ms/step - loss: 0.0427 - accuracy: 0.9865 - val_loss: 0.0586 - val_accuracy: 0.9773
75/75
Epoch
     392/800
75/75
                                      0s 3ms/step - loss: 0.0427 - accuracy: 0.9857 - val loss: 0.0579 - val accuracy: 0.9785
      393/800
                                         4ms/step - loss: 0.0425 - accuracy: 0.9870 - val_loss: 0.0580 - val_accuracy: 0.9811
     394/800
Epoch
                                      0s 4ms/step - loss: 0.0425 - accuracy: 0.9857 - val_loss: 0.0580 - val_accuracy: 0.9811
75/75 [==
Epoch
     395/800
75/75 [==
                        396/800
                                        3ms/step - loss: 0.0425 - accuracy: 0.9865 - val_loss: 0.0581 - val_accuracy: 0.9798
      397/800
Epoch
                                      0s 4ms/step - loss: 0.0424 - accuracy: 0.9874 - val loss: 0.0582 - val accuracy: 0.9798
75/75 [==:
Epoch 398/800
75/75
                                      0s 4ms/step - loss: 0.0425 - accuracy: 0.9865 - val loss: 0.0581 - val accuracy: 0.9798
Epoch
75/75
      399/800
                                                                accuracy: 0.9865 - val_loss: 0.0582 - val_accuracy: 0.9798
      400/800
Epoch
75/75 [==
                                      0s 4ms/step - loss: 0.0424 - accuracy: 0.9853 - val loss: 0.0578 - val accuracy: 0.9773
Epoch 401/800
75/75 [=:
                        :=======] - 0s 4ms/step - loss: 0.0423 - accuracy: 0.9861 - val loss: 0.0579 - val accuracy: 0.9798
      1
402/800
     [====-
1 403/800
Epoch
                                      0s 3ms/step - loss: 0.0423 - accuracy: 0.9861 - val_loss: 0.0582 - val_accuracy: 0.9773
75/75 [==
Epoch 404/800
75/75 [=====
Fnoch 405/800
                                      0s 3ms/step - loss: 0.0421 - accuracy: 0.9857 - val_loss: 0.0579 - val_accuracy: 0.9773
75/75 [=====
Epoch 406/800
                                        3ms/step - loss: 0.0423 - accuracy: 0.9861 - val_loss: 0.0580 - val_accuracy: 0.9798
                                    - 0s 3ms/step - loss: 0.0420 - accuracy: 0.9861 - val loss: 0.0581 - val accuracy: 0.9798
75/75 [==
Epoch 407/800
75/75 [=
                         75//>
Epoch 408/860
75/75 [======
Fnoch 409/800
                                      Os 2ms/step - loss: 0.0420 - accuracy: 0.9857 - val loss: 0.0580 - val accuracy: 0.9773
                                      0s 3ms/step - loss: 0.0420 - accuracy: 0.9870 - val loss: 0.0582 - val accuracy: 0.9798
Epoch 410/800
75/75 F
                                      0s 2ms/step - loss: 0.0420 - accuracy: 0.9857 - val_loss: 0.0577 - val_accuracy: 0.9811
Epoch 411/800
75/75 [=====
Epoch 412/800
                                        3ms/step - loss: 0.0419 - accuracy: 0.9861 - val_loss: 0.0579 - val_accuracy: 0.9760
75/75 [==
                        ========] - 0s 3ms/step - loss: 0.0419 - accuracy: 0.9861 - val_loss: 0.0579 - val_accuracy: 0.9773
Fnoch 413/800
75/75
                                      Os 2ms/step - loss: 0.0420 - accuracy: 0.9865 - val loss: 0.0583 - val accuracy: 0.9773
      414/800
     415/800
Epoch
75/75 [==
                                      0s 2ms/step - loss: 0.0414 - accuracy: 0.9870 - val loss: 0.0644 - val accuracy: 0.9760
Epoch 416/800
                                        3ms/step - loss: 0.0436 - accuracy: 0.9857 - val_loss: 0.0586 - val_accuracy: 0.9760
   ch 417/800
Epoch 41
75/75 [=
                                      0s 3ms/step - loss: 0.0418 - accuracy: 0.9870 - val loss: 0.0584 - val accuracy: 0.9785
Epoch 418/800
75/75 [=====
Epoch 419/800
                         ======== ] - 0s 3ms/step - loss: 0.0418 - accuracy: 0.9865 - val loss: 0.0581 - val accuracy: 0.9798
75/75 [
                                      0s 3ms/step - loss: 0.0416 - accuracy: 0.9874 - val_loss: 0.0583 - val_accuracy: 0.9760
     420/800
                                      0s 2ms/step - loss: 0.0416 - accuracy: 0.9870 - val_loss: 0.0585 - val_accuracy: 0.9773
75/75 [=====
Epoch 421/800
75/75 [==
                                      0s 3ms/step - loss: 0.0415 - accuracy: 0.9874 - val loss: 0.0582 - val accuracy: 0.9811
Epoch 4
     422/800
                                        3ms/step - loss: 0.0416 - accuracy: 0.9865 - val_loss: 0.0583 - val_accuracy: 0.9798
      423/800
Epoch 423/800
75/75 [=====
Epoch 424/800
                                        3ms/step - loss: 0.0413 - accuracy: 0.9865 - val_loss: 0.0584 - val_accuracy: 0.9773
75/75 [=:
                        Fnoch 425/800
75/75
                                        3ms/step - loss: 0.0415 - accuracy: 0.9861 - val loss: 0.0586 - val accuracy: 0.9785
      426/800
75/75 [=====
Epoch 427/800
                                        3ms/step - loss: 0.0415 - accuracy: 0.9865 - val loss: 0.0583 - val accuracy: 0.9773
75/75 [==
                                      0s 2ms/step - loss: 0.0415 - accuracy: 0.9865 - val loss: 0.0581 - val accuracy: 0.9760
Epoch 428/800
75/75 [======
Epoch 429/800
                                        3ms/step - loss: 0.0414 - accuracy: 0.9861 - val_loss: 0.0579 - val_accuracy: 0.9823
                                      0s 3ms/step - loss: 0.0413 - accuracy: 0.9874 - val_loss: 0.0581 - val_accuracy: 0.9823
75/75 [==
Epoch 430/800
75/75 [==
                        ========= ] - 0s 2ms/step - loss: 0.0413 - accuracv: 0.9870 - val loss: 0.0581 - val accuracv: 0.9823
0s 2ms/step - loss: 0.0412 - accuracy: 0.9865 - val_loss: 0.0577 - val_accuracy: 0.9811
                                      Os 2ms/step - loss: 0.0413 - accuracy: 0.9874 - val loss: 0.0579 - val accuracy: 0.9811
75/75 [=====
Epoch 433/800
75/75 [=:
                                      0s 3ms/step - loss: 0.0413 - accuracy: 0.9874 - val loss: 0.0581 - val accuracy: 0.9811
     434/800
                                         3ms/step - loss: 0.0411 -
                                                                accuracy: 0.9861 - val_loss: 0.0580 - val_accuracy: 0.9773
     435/800
.
75/75 [==
                                      0s 2ms/step - loss: 0.0413 - accuracy: 0.9870 - val_loss: 0.0579 - val_accuracy: 0.9811
Epoch 436/800
75/75 [
                        =======] - 0s 3ms/step - loss: 0.0412 - accuracy: 0.9870 - val loss: 0.0580 - val accuracy: 0.9823
Fnoch 437/800
     438/800
Epoch
                                      0s 3ms/step - loss: 0.0412 - accuracy: 0.9870 - val_loss: 0.0580 - val_accuracy: 0.9785
75/75 [==
Epoch 439/800
75/75 [==
                         440/800
    441/800
                                      0s 2ms/step - loss: 0.0410 - accuracy: 0.9874 - val_loss: 0.0583 - val_accuracy: 0.9785
Epoch
                                      Os 3ms/step - loss: 0.0410 - accuracy: 0.9870 - val loss: 0.0585 - val accuracy: 0.9773
75/75 [==
Epoch 442/800
75/75 F
                        Fpoch -
75/75 [====-
2ch 444/800
                                        2ms/step - loss: 0.0412 - accuracy: 0.9870 - val_loss: 0.0584 - val_accuracy: 0.9760
                          :=======] - 0s 3ms/step - loss: 0.0409 - accuracy: 0.9870 - val loss: 0.0582 - val accuracy: 0.9823
75/75 [=====
Epoch 445/800
75/75 [======
Fnoch 446/800
                        ========] - 0s 3ms/step - loss: 0.0408 - accuracy: 0.9874 - val loss: 0.0582 - val accuracy: 0.9811
                                      0s 3ms/step - loss: 0.0409 - accuracy: 0.9878 - val_loss: 0.0582 - val_accuracy: 0.9811
     447/800
Epoch
                        ========] - 0s 3ms/step - loss: 0.0408 - accuracy: 0.9870 - val_loss: 0.0583 - val_accuracy: 0.9773
75/75 [==
Fnoch 448/800
```

Epoch	449/800											
	[]	-	0s	3ms/step -	loss:	0.0408 -	accuracy:	0.9861 -	val_loss:	0.0583 -	val_accuracy:	0.9811
	450/800 [=======]	_	0s	3ms/step -	loss:	0.0406 -	accuracy:	0.9870 -	val loss:	0.0582 -	val accuracy:	0.9773
Epoch	451/800						-		_			
	[========] 452/800	-	0s	4ms/step -	loss:	0.0408 -	accuracy:	0.9865 -	val_loss:	0.0584 -	val_accuracy:	0.9773
75/75	[]	-	0s	4ms/step -	loss:	0.0408 -	accuracy:	0.9861 -	val_loss:	0.0582 -	val_accuracy:	0.9773
	453/800 [======]		ac	2mc/cton	1000	0 0106	accupacy:	0 0070	val loss:	0 0505	val accumacy:	0 0772
	454/800	-	05	Jiis/step -	1055.	0.0400 -	accuracy.	0.5670 -	Va1_1055.	0.0383 -	vai_accuracy.	0.5775
75/75	[]	-	0s	4ms/step -	loss:	0.0405 -	accuracy:	0.9870 -	val_loss:	0.0582 -	${\tt val_accuracy:}$	0.9811
	455/800 [=======]	_	9s	4ms/sten -	loss:	0.0407 -	accuracy:	0.9870 -	val loss:	0.0583 -	val accuracy:	0.9811
Epoch	456/800											
	[======] 457/800	-	0s	5ms/step -	loss:	0.0401 -	accuracy:	0.9865 -	val_loss:	0.0586 -	val_accuracy:	0.9798
	[]	-	0s	4ms/step -	loss:	0.0406 -	accuracy:	0.9865 -	val_loss:	0.0584 -	val_accuracy:	0.9773
	458/800		٥-	4	1	0.0405		0.0074		0.0503		0.0705
	[======] 459/800	-	0s	4ms/step -	loss:	0.0405 -	accuracy:	0.98/4 -	val_loss:	0.0582 -	val_accuracy:	0.9785
75/75	[]	-	0s	4ms/step -	loss:	0.0406 -	accuracy:	0.9870 -	val_loss:	0.0581 -	val_accuracy:	0.9785
	460/800	_	ac	Ams/ston -	1000	9 9/95 -	accuracy:	0 9870 -	val loss:	0 0583 -	val accuracy:	0 9811
	461/800		03	-ніз/ эсер	1033.	0.0405	accuracy.	0.5070	va1_1033.	0.0303	var_accuracy.	0.7011
	[=======]	-	0s	6ms/step -	loss:	0.0404 -	accuracy:	0.9865 -	val_loss:	0.0581 -	val_accuracy:	0.9773
	462/800 [=======]	_	0s	4ms/step -	loss:	0.0405 -	accuracy:	0.9870 -	val loss:	0.0583 -	val accuracy:	0.9798
Epoch	463/800											
	[========] 464/800	-	0s	4ms/step -	loss:	0.0405 -	accuracy:	0.9865 -	val_loss:	0.0583 -	val_accuracy:	0.9773
	[=========]	_	0s	3ms/step -	loss:	0.0404 -	accuracy:	0.9870 -	val_loss:	0.0580 -	val_accuracy:	0.9798
Epoch	465/800						-		_			
	[========] 466/800	-	0s	3ms/step -	loss:	0.0404 -	accuracy:	0.9865 -	val_loss:	0.0582 -	val_accuracy:	0.9811
75/75	[]	-	0s	3ms/step -	loss:	0.0402 -	accuracy:	0.9870 -	val_loss:	0.0586 -	val_accuracy:	0.9823
	467/800 []	_	ac	3ms/sten -	1000	0 0103 -	accuracy:	0 9870 -	val loss:	0 0587 -	val accuracy:	0 9798
Epoch	468/800											
75/75	[]	-	0s	3ms/step -	loss:	0.0400 -	accuracy:	0.9865 -	val_loss:	0.0591 -	val_accuracy:	0.9773
	469/800 []	_	0s	3ms/step -	loss:	0.0401 -	accuracv:	0.9865 -	val_loss:	0.0585 -	val_accuracv:	0.9811
Epoch	470/800											
	[========] 471/800	-	0s	3ms/step -	loss:	0.0401 -	accuracy:	0.9878 -	val_loss:	0.0585 -	val_accuracy:	0.9773
	[======]	-	0s	3ms/step -	loss:	0.0400 -	accuracy:	0.9870 -	val_loss:	0.0584 -	val_accuracy:	0.9773
	472/800		0-	2ms /ston	10001	0.0402		0.0005	wal lass.	0 0500		0.0011
	[========] 473/800	-	05	sms/step -	1055:	0.0402 -	accuracy:	0.9865 -	vai_ioss:	0.0588 -	vai_accuracy:	0.9811
	[]	-	0s	3ms/step -	loss:	0.0400 -	accuracy:	0.9874 -	val_loss:	0.0588 -	val_accuracy:	0.9811
	474/800 []	_	9s	3ms/sten -	loss:	0.0400 -	accuracy:	0.9874 -	val loss:	0.0585 -	val accuracy:	0.9823
Epoch	475/800											
	[========] 476/800	-	0s	3ms/step -	loss:	0.0399 -	accuracy:	0.9874 -	val_loss:	0.0585 -	val_accuracy:	0.9811
	[]	-	0s	3ms/step -	loss:	0.0401 -	accuracy:	0.9861 -	val_loss:	0.0590 -	val_accuracy:	0.9811
	477/800		0-	2ms /ston	10001	0.0400		0.0070	wal lass.	0.0004		0.0011
	[========] 478/800	-	85	oms/step -	1055:	0.0400 -	accuracy:	0.9870 -	Va1_1055:	0.0564 -	vai_accuracy:	0.9611
75/75	[]	-	0s	2ms/step -	loss:	0.0396 -	accuracy:	0.9870 -	val_loss:	0.0592 -	${\tt val_accuracy:}$	0.9798
	479/800 []	_	0s	3ms/step -	loss:	0.0400 -	accuracy:	0.9870 -	val loss:	0.0591 -	val accuracy:	0.9785
Epoch	480/800											
	[=======] 481/800	-	0s	3ms/step -	loss:	0.0398 -	accuracy:	0.9870 -	val_loss:	0.0585 -	val_accuracy:	0.9785
	461/666 [=========]	_	0s	3ms/step -	loss:	0.0399 -	accuracy:	0.9870 -	val_loss:	0.0589 -	val_accuracy:	0.9811
	482/800		_									
	[========] 483/800	-	05	sms/step -	1055:	0.0399 -	accuracy:	0.98/0 -	vai_ioss:	0.0587 -	vai_accuracy:	0.9811
75/75	[]	-	0s	3ms/step -	loss:	0.0398 -	accuracy:	0.9870 -	val_loss:	0.0588 -	val_accuracy:	0.9785
75/75	484/800	_	0s	3ms/sten -	loss:	0.0396 -	accuracy:	0.9865 -	val loss:	0.0591 -	val_accuracy:	0.9798
Epoch	485/800											
	[========] 486/800	-	0s	3ms/step -	loss:	0.0399 -	accuracy:	0.9878 -	val_loss:	0.0589 -	val_accuracy:	0.9798
	[]	-	0s	3ms/step -	loss:	0.0399 -	accuracy:	0.9870 -	val_loss:	0.0591 -	val_accuracy:	0.9811
	487/800		٥-	2	1	0.0200		0.0054		0.0500		0.0011
	[========] 488/800	-	05	sms/step -	1055:	0.0398 -	accuracy:	0.9861 -	vai_ioss:	0.0589 -	vai_accuracy:	0.9811
75/75	[]	-	0s	3ms/step -	loss:	0.0396 -	accuracy:	0.9870 -	val_loss:	0.0585 -	val_accuracy:	0.9785
	489/800 []	_	as	3ms/sten -	loss	a a398 -	accuracy:	0 9870 -	val loss.	0 0586 -	val accuracy:	a 9785
Epoch	490/800											
	[=======]	-	0s	3ms/step -	loss:	0.0393 -	accuracy:	0.9865 -	val_loss:	0.0591 -	val_accuracy:	0.9798
	491/800	_	0s	3ms/step -	loss:	0.0396 -	accuracv:	0.9874 -	val loss:	0.0586 -	val_accuracv:	0.9785
Epoch	492/800						-		_			
75/75 Enoch	[========] 493/800	-	0s	3ms/step -	loss:	0.0395 -	accuracy:	0.9870 -	val_loss:	0.0589 -	val_accuracy:	0.9823
	[======]	-	0s	2ms/step -	loss:	0.0396 -	accuracy:	0.9870 -	val_loss:	0.0587 -	val_accuracy:	0.9811
	494/800		0-	2ms /ston	10001	0 0202		0.0074	wal lass.	0.0503		0.0022
	[=========] 495/800	-	05	sms/step -	1055:	0.0393 -	accuracy:	0.9874 -	vai_ioss:	0.0593 -	vai_accuracy:	0.9823
75/75	[]	-	0s	2ms/step -	loss:	0.0394 -	accuracy:	0.9878 -	val_loss:	0.0584 -	${\tt val_accuracy:}$	0.9811
	496/800	_	9s	3ms/sten -	loss:	0.0394 -	accuracy:	0.9870 -	val loss:	0.0586 -	val accuracy:	0.9785
Epoch	497/800						-		_			
	[========] 498/800	-	0s	3ms/step -	loss:	0.0396 -	accuracy:	0.9874 -	val_loss:	0.0583 -	val_accuracy:	0.9798
	[========]	_	0s	3ms/step -	loss:	0.0394 -	accuracy:	0.9870 -	val_loss:	0.0580 -	val_accuracy:	0.9823
	499/800		٥-	2	1	0.0204		0.0055		0.0504		0.0700
	[========] 500/800	-	0s	3ms/step -	loss:	0.0394 -	accuracy:	0.9865 -	val_loss:	0.0584 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step -	loss:	0.0395 -	accuracy:	0.9865 -	val_loss:	0.0589 -	val_accuracy:	0.9785
	501/800	_	٥ς	3ms/sten -	loss	0.0394 -	accuracy.	0.9870 -	val loss.	0.0590 -	val accuracy:	0.9811
Epoch	502/800											
75/75	[]	-	0s	3ms/step -	loss:	0.0393 -	accuracy:	0.9874 -	val_loss:	0.0585 -	val_accuracy:	0.9811
	503/800	_	0s	3ms/step -	loss:	0.0393 -	accuracv:	0.9861 -	val loss:	0.0589 -	val_accuracv:	0.9811
Epoch	504/800											
	[======] 505/800	-	0s	3ms/step -	loss:	0.0393 -	accuracy:	0.9870 -	val_loss:	0.0591 -	val_accuracy:	0.9798
75/75	[]	-	0s	3ms/step -	loss:	0.0392 -	accuracy:	0.9874 -	val_loss:	0.0591 -	val_accuracy:	0.9798
Epoch	506/800											
	[=======] 507/800	-	ØS	₃ms/step -	loss:	v.0392 -	accuracy:	0.9870 -	vai_loss:	v.0591 -	val_accuracy:	u.9785
75/75	[]	-	0s	3ms/step -	loss:	0.0389 -	accuracy:	0.9870 -	val_loss:	0.0597 -	val_accuracy:	0.9773
	508/800	_	Qc.	3ms/sten	loser	0.039/ -	accuracy.	0.9870	val locc.	0.0593	val accuracy:	0.9773
	509/800											
Epoch		-	0s	4ms/step -	loss:	0.0391 -	accuracy:	0.9870 -	val_loss:	0.0594 -	val_accuracy:	0.9785
Epoch 75/75	[=======]											
Epoch 75/75 Epoch	[======] 510/800 [======]		0s	4ms/step -	loss:	0.0389 -	accuracy:	0.9878 -	val_loss:	0.0594 -	val_accuracv:	0.9798
Epoch 75/75 Epoch 75/75 Epoch	510/800 [] 511/800	-										
Epoch 75/75 Epoch 75/75 Epoch 75/75	510/800 [] 511/800 []	-										
Epoch 75/75 Epoch 75/75 Epoch 75/75 Epoch	510/800 [] 511/800	-	0s	3ms/step -	loss:	0.0391 -	accuracy:	0.9870 -	val_loss:	0.0590 -	val_accuracy:	0.9798

	513/800	,	20	Ams (ston		locci	0 0202	2	cempachi	0.0070	val loss:	0 0506	val accumacy:	0 0772
Epoch	514/800													
	[======] 515/800	- (ðs.	3ms/step	-	loss:	0.0391 -	- a	ccuracy:	0.9874 -	val_loss:	0.0598 -	val_accuracy:	0.9798
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0388 -	- a	ccuracy:	0.9865 -	val_loss:	0.0596 -	val_accuracy:	0.9785
	516/800	- (ðs.	4ms/step	_	loss:	0.0388 -	- a	ccuracv:	0.9874 -	val loss:	0.0595 -	val accuracy:	0.9811
Epoch	517/800								-		_			
	[=======] 518/800	- (05	3ms/step	-	1055:	0.0390 -	- a	ccuracy:	0.9870 -	val_loss:	0.0587 -	vai_accuracy:	0.9798
	[======] 519/800	- (ðs.	4ms/step	-	loss:	0.0388 -	- a	ccuracy:	0.9870 -	val_loss:	0.0592 -	val_accuracy:	0.9811
	[]	- (ðs.	4ms/step	-	loss:	0.0389 -	- a	ccuracy:	0.9870 -	val_loss:	0.0591 -	val_accuracy:	0.9798
	520/800 []	,	20	Ams (ston		locci	0 0200	2	ccupacy:	0.0070	val loss:	0 0502	val accumacy:	0 0011
Epoch	521/800													
	[=======] 522/800	- (ðs.	4ms/step	-	loss:	0.0388 -	- a	ccuracy:	0.9870 -	val_loss:	0.0591 -	val_accuracy:	0.9811
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0386 -	- a	ccuracy:	0.9870 -	val_loss:	0.0593 -	val_accuracy:	0.9798
	523/800 [======]	- (ðs.	4ms/step	_	loss:	0.0387 -	- a	ccuracy:	0.9878 -	val_loss:	0.0592 -	val_accuracy:	0.9811
Epoch	524/800								-		_			
	[=======] 525/800	- (ØS	4ms/step	-	loss:	0.0387 -	- a	ccuracy:	0.9874 -	val_loss:	0.0600 -	val_accuracy:	0.9811
	[=======]	- (ðs.	4ms/step	-	loss:	0.0389 -	- a	ccuracy:	0.9870 -	val_loss:	0.0600 -	val_accuracy:	0.9811
	526/800 [======]	- (ðs.	3ms/step	-	loss:	0.0386 -	- a	ccuracy:	0.9874 -	val_loss:	0.0597 -	val_accuracy:	0.9785
	527/800 []	- (ac	2ms/sten	_	1000	0 0388 -	- 2/	ccuracy.	0 9870 -	val loss:	0 0505 -	val accuracy:	0 9785
	528/800	- ,	05	21115/ SCEP		1055.	0.0300 -	- av	ccuracy.	0.3870 -	vai_1055.	0.0333 -	vai_accuracy.	0.5783
	[=======] 529/800	- (ðs.	3ms/step	-	loss:	0.0386 -	- a	ccuracy:	0.9870 -	val_loss:	0.0596 -	val_accuracy:	0.9811
	[=======]	- (ðs.	3ms/step	-	loss:	0.0385 -	- a	ccuracy:	0.9874 -	val_loss:	0.0594 -	val_accuracy:	0.9811
	530/800	- 6	as	3ms/sten	_	loss:	0.0387 -	- a	ccuracy:	0.9870 -	val loss:	0.0592 -	val accuracy:	0.9785
Epoch	531/800								-		_			
	[========] 532/800	- (ðs	3ms/step	-	loss:	0.0385 -	- a	ccuracy:	0.9870 -	val_loss:	0.0594 -	val_accuracy:	0.9785
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0384 -	- a	ccuracy:	0.9870 -	val_loss:	0.0598 -	val_accuracy:	0.9798
	533/800 [=======]	- (ðs.	3ms/step	-	loss:	0.0384 -	- a	ccuracy:	0.9870 -	val_loss:	0.0600 -	val_accuracy:	0.9798
Epoch	534/800													
	[=======] 535/800	- (05	3ms/step	-	1055:	0.0385 -	- a	ccuracy:	0.9865 -	val_loss:	0.0594 -	vai_accuracy:	0.9785
	[=====]	- (ðs.	3ms/step	-	loss:	0.0383 -	- a	ccuracy:	0.9874 -	val_loss:	0.0596 -	val_accuracy:	0.9811
	536/800 [=======]	- (ðs.	3ms/step	-	loss:	0.0385 -	- a	ccuracy:	0.9870 -	val_loss:	0.0593 -	val_accuracy:	0.9811
	537/800 []	- (ac	3ms/stan	_	1000	0 0383 -	- 2/	ccuracy.	0 9870 -	val loss:	0 0593 -	val accuracy:	A 9811
	538/800	- '	03	эшэ/ эсер		1033.	0.0303	u	ccui acy.	0.5070	va1_1033.	0.0333	var_accuracy.	0.5011
	[=======] 539/800	- (ðs.	3ms/step	-	loss:	0.0386 -	- a	ccuracy:	0.9870 -	val_loss:	0.0592 -	val_accuracy:	0.9811
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0383 -	- a	ccuracy:	0.9870 -	val_loss:	0.0589 -	val_accuracy:	0.9785
	540/800 []	- (ðs.	3ms/step	_	loss:	0.0384 -	- a	ccuracv:	0.9870 -	val loss:	0.0592 -	val accuracy:	0.9785
Epoch	541/800													
	[======] 542/800	- (ØS	3ms/step	-	loss:	0.0382 -	- a	ccuracy:	0.9878 -	val_loss:	0.0595 -	val_accuracy:	0.9811
	[======]	- (ðs.	3ms/step	-	loss:	0.0383 -	- a	ccuracy:	0.9870 -	val_loss:	0.0596 -	val_accuracy:	0.9798
	543/800 [=======]	- (ðs.	3ms/step	-	loss:	0.0384 -	- a	ccuracy:	0.9865 -	val_loss:	0.0589 -	val_accuracy:	0.9811
	544/800 [======]	,	20	2ms/ston		locci	a a291	2.	ccupacy:	0.0070	val loss:	0 0502	val accumacy:	0 0011
Epoch	545/800													
	[========] 546/800	- (ðs.	3ms/step	-	loss:	0.0384 -	- a	ccuracy:	0.9870 -	val_loss:	0.0594 -	val_accuracy:	0.9785
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0383 -	- a	ccuracy:	0.9870 -	val_loss:	0.0590 -	val_accuracy:	0.9811
	547/800 []	- (ðs.	3ms/step	_	loss:	0.0380 -	- a	ccuracy:	0.9874 -	val loss:	0.0594 -	val accuracy:	0.9773
Epoch	548/800													
	[=====================================	- (ðs	3ms/step	-	loss:	0.0381 -	- a	ccuracy:	0.9878 -	val_loss:	0.0592 -	val_accuracy:	0.9811
	[======] 550/800	- (ðs.	3ms/step	-	loss:	0.0381 -	- a	ccuracy:	0.9870 -	val_loss:	0.0595 -	val_accuracy:	0.9811
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0380 -	- a	ccuracy:	0.9870 -	val_loss:	0.0597 -	val_accuracy:	0.9798
	551/800 []	- 6	ac	2ms/sten	_	loss:	0 0381 -	- 20	ccuracy.	0 9861 -	val loss:	a a594 -	val accuracy:	0 9798
Epoch	552/800													
	[=======] 553/800	- (ðs.	2ms/step	-	loss:	0.0380 -	- a	ccuracy:	0.9874 -	val_loss:	0.0592 -	val_accuracy:	0.9811
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0379 -	- a	ccuracy:	0.9874 -	val_loss:	0.0592 -	val_accuracy:	0.9785
	554/800 []	- (ðs.	3ms/step	_	loss:	0.0379 -	- a	ccuracv:	0.9874 -	val loss:	0.0594 -	val accuracy:	0.9785
Epoch	555/800													
	[=======] 556/800	- (ØS	3ms/step	-	loss:	0.03/9 -	- a	ccuracy:	0.9874 -	val_loss:	0.0599 -	val_accuracy:	0.9785
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0380 -	- a	ccuracy:	0.9878 -	val_loss:	0.0595 -	val_accuracy:	0.9785
	557/800 []	- (ðs.	3ms/step	-	loss:	0.0377 -	- a	ccuracy:	0.9878 -	val_loss:	0.0598 -	val_accuracy:	0.9811
	558/800	,	2-	2ms/ston		10001	0.0270			0.0070	wal lass.	0.0506		0.700
Epoch	[=======] 559/800	- 1	05	oms/step	-	1055:	0.03/9 -	- d(ccuracy:	0.9870 -	Va1_1055:	0.0596 -	vai_accuracy:	0.9798
	[======] 560/800	- (ðs.	3ms/step	-	loss:	0.0378 -	- a	ccuracy:	0.9870 -	val_loss:	0.0594 -	val_accuracy:	0.9811
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0378 -	- a	ccuracy:	0.9878 -	val_loss:	0.0592 -	val_accuracy:	0.9798
	561/800 []	- 6	ac	3ms/sten	_	loss:	0 0378 -	- 20	ccuracy.	0 9874 -	val loss:	a asaa -	val accuracy:	0 9811
	562/800	- '	03	эшэ/ эсер		1033.	0.0370	u	ccui acy.	0.5074	va1_1033.	0.0333	var_accuracy.	0.5011
	[========] 563/800	- (ðs.	3ms/step	-	loss:	0.0378 -	- a	ccuracy:	0.9874 -	val_loss:	0.0597 -	val_accuracy:	0.9785
75/75	[]	- (ðs.	3ms/step	-	loss:	0.0377 -	- a	ccuracy:	0.9878 -	val_loss:	0.0597 -	val_accuracy:	0.9811
	564/800 [======]	- (ðs.	3ms/step	_	loss:	0.0378 -	- a	ccuracv:	0.9874 -	val loss:	0.0597 -	val accuracy:	0.9811
Epoch	565/800								-		_			
	[=======] 566/800	- (ØS	3ms/step	-	loss:	0.03// -	- a	ccuracy:	0.9878 -	val_loss:	0.0599 -	val_accuracy:	0.9798
	[]	- (ðs.	3ms/step	-	loss:	0.0376 -	- a	ccuracy:	0.9874 -	val_loss:	0.0599 -	val_accuracy:	0.9773
	567/800 []	- (ðs.	3ms/step	-	loss:	0.0380 -	- a	ccuracy:	0.9870 -	val_loss:	0.0591 -	val_accuracy:	0.9811
Epoch	568/800													
Epoch	[=======] 569/800													
	[======] 570/800	- (ðs.	3ms/step	-	loss:	0.0375 -	- a	ccuracy:	0.9865 -	val_loss:	0.0596 -	val_accuracy:	0.9811
75/75	[]	- (ðs.	2ms/step	-	loss:	0.0375 -	- a	ccuracy:	0.9878 -	val_loss:	0.0596 -	val_accuracy:	0.9773
	571/800 []	_ (9<	3ms/sten	_	loss	0.0375 -	- 2	ccuracy.	0.9878 -	val loss.	0.0598 -	val accuracy:	0.9798
Epoch	572/800													
	[======] 573/800	- (ðs.	4ms/step	-	loss:	0.0376 -	- a	ccuracy:	0.9874 -	val_loss:	0.0594 -	val_accuracy:	0.9811
75/75	[]	- (ðs.	4ms/step	-	loss:	0.0374 -	- a	ccuracy:	0.9874 -	val_loss:	0.0601 -	val_accuracy:	0.9798
	574/800 []	- 6	ðs.	4ms/sten	_	loss:	0.0375 -	- a	ccuracv:	0.9874 -	val loss:	0.0601 -	val_accuracv:	0.9811
Epoch	575/800													
	[=======] 576/800	- (øS.	4ms/step	-	1088:	v.v3/4 -	- a	ccuracy:	v.98/8 -	vai_loss:	0.0601 -	vai_accuracy:	v.9/98
	[======]	- (ðs.	4ms/step	-	loss:	0.0375 -	- a	ccuracy:	0.9874 -	val_loss:	0.0596 -	val_accuracy:	0.9811

```
Epoch 577/800
                                        0s 3ms/step - loss: 0.0371 - accuracy: 0.9870 - val_loss: 0.0602 - val_accuracy: 0.9773
75/75 [==
Epoch 578/800
75/75 [==
                          579/800
                                           4ms/step - loss: 0.0375 - accuracy: 0.9878 - val_loss: 0.0594 - val_accuracy: 0.9760
     580/800
Epoch
                                        0s 3ms/step - loss: 0.0373 - accuracy: 0.9874 - val_loss: 0.0597 - val_accuracy: 0.9811
75/75 [==
Epoch 581/800
75/75 [
                                        0s 3ms/step - loss: 0.0373 - accuracy: 0.9874 - val loss: 0.0597 - val accuracy: 0.9811
      582/800
                                           4ms/step - loss: 0.0371 - accuracy: 0.9878 - val loss: 0.0599 - val accuracy: 0.9798
75/75
Epoch 584/800
75/75
                                        0s 4ms/step - loss: 0.0373 - accuracy: 0.9878 - val loss: 0.0593 - val accuracy: 0.9811
      585/800
                                           4ms/step - loss: 0.0372 - accuracy: 0.9874 - val_loss: 0.0598 - val_accuracy: 0.9811
      [=====
586/800
Epoch
                                        0s 4ms/step - loss: 0.0373 - accuracy: 0.9874 - val_loss: 0.0596 - val_accuracy: 0.9811
75/75 [=
     587/800
Epoch
75/75 [==
                          588/800
                                           3ms/step - loss: 0.0373 - accuracy: 0.9874 - val_loss: 0.0599 - val_accuracy: 0.9811
      589/800
Epoch
                                        Os 2ms/step - loss: 0.0373 - accuracy: 0.9874 - val loss: 0.0596 - val accuracy: 0.9773
75/75 [===
Epoch
      590/800
75/75
                                        0s 3ms/step - loss: 0.0374 - accuracy: 0.9878 - val loss: 0.0598 - val accuracy: 0.9773
Epoch
75/75
      591/800
                                                                     accuracy: 0.9878 - val_loss: 0.0597 - val_accuracy: 0.9798
75/75 [=====
Epoch 592/800
75/75 [==
                                        0s 3ms/step - loss: 0.0366 - accuracy: 0.9878 - val loss: 0.0604 - val accuracy: 0.9760
     593/800
Epoch
75/75 F
                                        0s 3ms/step - loss: 0.0372 - accuracy: 0.9882 - val loss: 0.0603 - val accuracy: 0.9798
      .
594/800
     595/800
Epoch
                                           3ms/step - loss: 0.0369 - accuracy: 0.9878 - val_loss: 0.0599 - val_accuracy: 0.9811
75/75 [===
Epoch 596/800
75/75 [
                                        0s 3ms/step - loss: 0.0369 - accuracy: 0.9878 - val_loss: 0.0603 - val_accuracy: 0.9785
      597/800
                                                    - loss: 0.0370 - accuracy: 0.9878 - val_loss: 0.0601 -
Epoch 598/800
                                        0s 3ms/step - loss: 0.0368 - accuracy: 0.9878 - val loss: 0.0604 - val accuracy: 0.9798
75/75 [==
Epoch
     599/800
75/75 [
                                      - 0s 2ms/step - loss: 0.0368 - accuracy: 0.9882 - val loss: 0.0606 - val accuracy: 0.9798
      600/800
                                        Os 3ms/step - loss: 0.0365 - accuracy: 0.9882 - val loss: 0.0606 - val accuracy: 0.9798
     [===-
601/800
-==
Epoch
                                        0s 3ms/step - loss: 0.0370 - accuracy: 0.9874 - val loss: 0.0604 - val accuracy: 0.9798
75/75 [==:
Epoch
     602/800
75/75 [=
                                           3ms/step - loss: 0.0368 - accuracy: 0.9886 - val_loss: 0.0604 - val_accuracy: 0.9785
      .
503/800
                                           3ms/step - loss: 0.0367 - accuracy: 0.9886 - val_loss: 0.0603 - val_accuracy: 0.9773
75/75 [=====
Epoch 604/800
75/75 [===
                                        0s 3ms/step - loss: 0.0367 - accuracy: 0.9882 - val loss: 0.0605 - val accuracy: 0.9811
Fnoch 605/800
75/75 [
                                        0s 3ms/step - loss: 0.0368 - accuracy: 0.9870 - val loss: 0.0601 - val accuracy: 0.9798
      .
506/800
     607/800
Epoch
75/75 [==
                                        0s 3ms/step - loss: 0.0365 - accuracy: 0.9874 - val loss: 0.0610 - val accuracy: 0.9798
Epoch 608/800
                                           3ms/step - loss: 0.0367 - accuracy: 0.9870 - val_loss: 0.0609 - val_accuracy: 0.9798
      [=====
609/800
Epoch 60
75/75 [:
                                        Os 3ms/step - loss: 0.0365 - accuracy: 0.9878 - val loss: 0.0606 - val accuracy: 0.9798
Epoch 610/800
75/75 [==
                                      - 0s 3ms/step - loss: 0.0365 - accuracy: 0.9870 - val loss: 0.0606 - val accuracy: 0.9811
Epoch 611/800
75/75
                                        0s 3ms/step - loss: 0.0363 - accuracy: 0.9874 - val_loss: 0.0607 - val_accuracy: 0.9811
      612/800
75/75 [=====
Epoch 613/800
                                        0s 3ms/step - loss: 0.0369 - accuracy: 0.9870 - val_loss: 0.0602 - val_accuracy: 0.9811
75/75 [==
                                        0s 3ms/step - loss: 0.0364 - accuracy: 0.9874 - val loss: 0.0638 - val accuracy: 0.9747
     614/800
                                           3ms/step - loss: 0.0371 - accuracy: 0.9878 - val_loss: 0.0610 - val_accuracy: 0.9811
      615/800
Epoch 61
75/75 [=
                                           3ms/step - loss: 0.0365 - accuracy: 0.9870 - val_loss: 0.0614 - val_accuracy: 0.9811
Epoch 616/800
75/75 [
                                        0s 3ms/step - loss: 0.0365 - accuracy: 0.9870 - val loss: 0.0611 - val accuracy: 0.9760
Fnoch 617/800
75/75
                                           3ms/step - loss: 0.0365 - accuracy: 0.9878 - val loss: 0.0608 - val accuracy: 0.9811
                                           3ms/step - loss: 0.0365 - accuracy: 0.9874 - val loss: 0.0610 - val accuracy: 0.9798
75/75 [=====
Epoch 619/800
75/75
75/75 [==
                                        0s 3ms/step - loss: 0.0363 - accuracy: 0.9878 - val loss: 0.0608 - val accuracy: 0.9811
Epoch
75/75
     620/800
                                           3ms/step - loss: 0.0363 -
                                                                     accuracy: 0.9874 - val_loss: 0.0608 - val_accuracy: 0.9798
                                        0s 3ms/step - loss: 0.0362 - accuracy: 0.9874 - val_loss: 0.0614 - val_accuracy: 0.9785
75/75 [==
Epoch 622/800
75/75 [==
                          623/800
75/75
                                           3ms/step - loss: 0.0361 - accuracy: 0.9891 - val_loss: 0.0608 - val_accuracy: 0.9811
     624/800
Epoch
                                        Os 3ms/step - loss: 0.0362 - accuracy: 0.9878 - val loss: 0.0611 - val accuracy: 0.9785
75/75 [=====
Epoch 625/800
75/75 [=:
                                        0s 3ms/step - loss: 0.0361 - accuracy: 0.9870 - val loss: 0.0608 - val accuracy: 0.9811
      626/800
                                                                     accuracy: 0.9865 - val_loss: 0.0622 - val_accuracy: 0.9811
      627/800
Epoch 627
75/75 [=:
                                        0s 3ms/step - loss: 0.0365 - accuracy: 0.9878 - val_loss: 0.0600 - val_accuracy: 0.9811
Epoch 628/800
75/75
                                        0s 3ms/step - loss: 0.0363 - accuracy: 0.9865 - val loss: 0.0606 - val accuracy: 0.9811
     629/800
      630/800
Epoch
                                        0s 3ms/step - loss: 0.0362 - accuracy: 0.9874 - val_loss: 0.0612 - val_accuracy: 0.9811
75/75 [==
Epoch 631/800
75/75 [==
                                        0s 3ms/step - loss: 0.0362 - accuracy: 0.9882 - val loss: 0.0609 - val accuracy: 0.9811
      632/800
                                           3ms/step - loss: 0.0359 - accuracy: 0.9882 - val_loss: 0.0611 - val_accuracy: 0.9811
     633/800
Epoch
                                        0s 3ms/step - loss: 0.0360 - accuracy: 0.9870 - val loss: 0.0615 - val accuracy: 0.9811
75/75 [=
Epoch 634/800
75/75 [
                                      - 0s 4ms/step - loss: 0.0359 - accuracy: 0.9878 - val loss: 0.0614 - val accuracy: 0.9811
Epoch
75/75
      635/800
      636/800
Epoch
75/75 [=====
Epoch 637/800
                                   ==] - 0s 3ms/step - loss: 0.0359 - accuracy: 0.9874 - val loss: 0.0612 - val accuracy: 0.9811
75/75 [=
                                        0s 4ms/step - loss: 0.0361 - accuracy: 0.9874 - val loss: 0.0604 - val accuracy: 0.9798
      638/800
                                           4ms/step - loss: 0.0358 - accuracy: 0.9870 - val_loss: 0.0626 - val_accuracy: 0.9798
     639/800
Epoch
                         ========] - 0s 4ms/step - loss: 0.0362 - accuracy: 0.9878 - val_loss: 0.0616 - val_accuracy: 0.9811
75/75 [==
Fnoch 640/800
                  :========] - 0s 4ms/step - loss: 0.0357 - accuracy: 0.9874 - val_loss: 0.0618 - val_accuracy: 0.9798
```

	641/800	0.	Ame (etan	10001	0.0354		0.0003	wal lass.	0.000	wal accument	0.0773
Epoch	[========] 642/800					-		_			
	[========] 643/800	- 09	4ms/step	- loss:	0.0360 -	accuracy:	0.9882 -	val_loss:	0.0616	- val_accuracy:	0.9811
75/75	[]	- 09	4ms/step	- loss:	0.0357 -	accuracy:	0.9891 -	val_loss:	0.0613	- val_accuracy:	0.9773
75/75	644/800 [=======]	- 09	4ms/step	- loss:	0.0356 -	accuracy:	0.9874 -	val_loss:	0.0618	- val_accuracy:	0.9811
	645/800 [=======]	- 09	4ms/step	- loss:	0.0357 -	accuracy:	0.9891 -	val_loss:	0.0614	- val_accuracy:	0.9798
	646/800 [=======]	- 00	4ms/sten	- loss.	0 0358 -	accuracy:	0 9878 -	val loss:	0 0611	- val accuracy:	0 9785
Epoch	647/800					-		_			
	[========] 648/800	- 09	4ms/step	- loss:	0.0357 -	accuracy:	0.9874 -	val_loss:	0.0612	- val_accuracy:	0.9798
	[=======] 649/800	- 09	4ms/step	- loss:	0.0357 -	accuracy:	0.9895 -	val_loss:	0.0611	- val_accuracy:	0.9811
75/75	[]	- 09	4ms/step	- loss:	0.0356 -	accuracy:	0.9882 -	val_loss:	0.0612	- val_accuracy:	0.9811
	650/800 []	- 09	3ms/step	- loss:	0.0357 -	accuracy:	0.9882 -	val_loss:	0.0613	- val_accuracy:	0.9811
	651/800 []	- 09	3ms/sten	- loss:	0.0357 -	accuracy:	0.9878 -	val loss:	0.0612	- val accuracy:	0.9811
Epoch	652/800										
	[=======] 653/800	- 09	3ms/step	- loss:	0.0355 -	accuracy:	0.9882 -	val_loss:	0.0618	- val_accuracy:	0.9785
	[======] 654/800	- 09	3ms/step	- loss:	0.0357 -	accuracy:	0.9886 -	val_loss:	0.0618	- val_accuracy:	0.9798
75/75	[]	- 09	3ms/step	- loss:	0.0356 -	accuracy:	0.9886 -	val_loss:	0.0617	- val_accuracy:	0.9785
75/75	655/800 [=======]	- 09	3ms/step	- loss:	0.0352 -	accuracy:	0.9886 -	val_loss:	0.0615	- val_accuracy:	0.9811
	656/800 [=======]	- 09	3ms/step	- loss:	0.0356 -	accuracy:	0.9882 -	val loss:	0.0616	- val accuracy:	0.9811
Epoch	657/800					-		_			
	[=======] 658/800	- 65	sms/scep	- 1055:	0.0353 -	accuracy:	0.9878 -	Va1_1055:	0.0014	- vai_accuracy:	0.9773
	[========] 659/800	- 09	3ms/step	- loss:	0.0355 -	accuracy:	0.9891 -	val_loss:	0.0613	- val_accuracy:	0.9811
75/75	[=======] 660/800	- 09	3ms/step	- loss:	0.0355 -	accuracy:	0.9886 -	val_loss:	0.0615	- val_accuracy:	0.9811
75/75	[======]	- 09	3ms/step	- loss:	0.0354 -	accuracy:	0.9878 -	val_loss:	0.0617	- val_accuracy:	0.9811
	661/800 []	- 09	3ms/step	- loss:	0.0354 -	accuracy:	0.9886 -	val_loss:	0.0616	- val_accuracy:	0.9811
Epoch	662/800 [======]										
Epoch	663/800					-		_			
	[========] 664/800	- 09	3ms/step	- loss:	0.0353 -	accuracy:	0.9886 -	val_loss:	0.0618	- val_accuracy:	0.9811
	[=======] 665/800	- 09	3ms/step	- loss:	0.0353 -	accuracy:	0.9878 -	val_loss:	0.0631	- val_accuracy:	0.9760
75/75	[]	- 09	3ms/step	- loss:	0.0354 -	accuracy:	0.9882 -	val_loss:	0.0622	- val_accuracy:	0.9811
	666/800 [======]	- 09	3ms/step	- loss:	0.0353 -	accuracy:	0.9886 -	val_loss:	0.0616	- val_accuracy:	0.9811
	667/800 []	- 00	3ms/sten	- loss.	0 0353 -	accuracy:	0 9878 -	val loss:	0 0618	- val accuracy:	0 9811
Epoch	668/800										
	[======] 669/800	- 09	3ms/step	- loss:	0.0351 -	accuracy:	0.98/8 -	val_loss:	0.0622	- val_accuracy:	0.9785
	[=======] 670/800	- 09	3ms/step	- loss:	0.0351 -	accuracy:	0.9891 -	val_loss:	0.0625	- val_accuracy:	0.9785
75/75	[]	- 09	4ms/step	- loss:	0.0351 -	accuracy:	0.9882 -	val_loss:	0.0619	- val_accuracy:	0.9811
75/75	671/800 []	- 09	3ms/step	- loss:	0.0351 -	accuracy:	0.9874 -	val_loss:	0.0624	- val_accuracy:	0.9785
	672/800 []	- 09	3ms/step	- loss:	0.0352 -	accuracy:	0.9878 -	val loss:	0.0623	- val accuracy:	0.9811
Epoch	673/800 [======]										
Epoch	674/800										
	[========] 675/800	- 09	3ms/step	- loss:	0.0351 -	accuracy:	0.9891 -	val_loss:	0.0614	- val_accuracy:	0.9811
	[=======] 676/800	- 09	3ms/step	- loss:	0.0351 -	accuracy:	0.9882 -	val_loss:	0.0622	- val_accuracy:	0.9785
75/75	[]	- 09	3ms/step	- loss:	0.0349 -	accuracy:	0.9882 -	val_loss:	0.0619	- val_accuracy:	0.9811
	677/800 [========]	- 09	3ms/step	- loss:	0.0351 -	accuracy:	0.9886 -	val_loss:	0.0623	- val_accuracy:	0.9811
	678/800 [=======]	- 09	3ms/sten	- loss:	0.0349 -	accuracy:	0.9882 -	val loss:	0.0623	- val accuracy:	0.9811
Epoch	679/800					-		_			
Epoch	[=======] 680/800					-		_			
	[======] 681/800	- 09	3ms/step	- loss:	0.0350 -	accuracy:	0.9882 -	val_loss:	0.0620	- val_accuracy:	0.9811
75/75	[]	- 09	3ms/step	- loss:	0.0348 -	accuracy:	0.9886 -	val_loss:	0.0629	- val_accuracy:	0.9798
75/75	682/800 [======]	- 09	3ms/step	- loss:	0.0352 -	accuracy:	0.9874 -	val_loss:	0.0625	- val_accuracy:	0.9811
	683/800 []	- 09	3ms/step	- loss:	0.0348 -	accuracy:	0.9886 -	val_loss:	0.0629	- val_accuracy:	0.9785
Epoch	684/800 [======]										
Epoch	685/800										
	[========] 686/800	- 09	3ms/step	- loss:	0.0349 -	accuracy:	0.9895 -	val_loss:	0.0622	- val_accuracy:	0.9811
	[=======] 687/800	- 09	3ms/step	- loss:	0.0347 -	accuracy:	0.9886 -	val_loss:	0.0624	- val_accuracy:	0.9811
75/75	[]	- 09	3ms/step	- loss:	0.0347 -	accuracy:	0.9882 -	val_loss:	0.0626	- val_accuracy:	0.9798
	688/800 [=======]	- 09	3ms/step	- loss:	0.0349 -	accuracy:	0.9882 -	val_loss:	0.0626	- val_accuracy:	0.9785
	689/800 [======]	- 00	3ms/stan	- 1000	0 03/18 -	accuracy:	0 9878 -	val loss:	0 0633	- val accuracy:	0 9785
Epoch	690/800										
	[========] 691/800	- 09	3ms/step	- loss:	0.0348 -	accuracy:	0.9886 -	val_loss:	0.0630	- val_accuracy:	0.9785
	[======] 692/800	- 09	3ms/step	- loss:	0.0346 -	accuracy:	0.9882 -	val_loss:	0.0629	- val_accuracy:	0.9811
75/75	[]	- 09	3ms/step	- loss:	0.0346 -	accuracy:	0.9886 -	val_loss:	0.0623	- val_accuracy:	0.9811
	693/800 [=======]	- 09	3ms/step	- loss:	0.0345 -	accuracy:	0.9878 -	val_loss:	0.0626	- val_accuracy:	0.9798
Epoch	694/800										
Epoch	[=======] 695/800					-		_			
	[=======] 696/800	- 09	4ms/step	- loss:	0.0347 -	accuracy:	0.9882 -	val_loss:	0.0627	- val_accuracy:	0.9811
75/75	[========] 697/800	- 09	4ms/step	- loss:	0.0344 -	accuracy:	0.9878 -	val_loss:	0.0641	- val_accuracy:	0.9785
75/75	[]	- 09	5ms/step	- loss:	0.0346 -	accuracy:	0.9891 -	val_loss:	0.0634	- val_accuracy:	0.9798
	698/800 [======]	- 0	4ms/sten	- loss:	0.0343 -	accuracv:	0.9882 -	val loss:	0.0632	- val_accuracv:	0.9773
Epoch	699/800										
Epoch	[=======] 700/800										
	[=======] 701/800	- 09	5ms/step	- loss:	0.0343 -	accuracy:	0.9882 -	val_loss:	0.0630	- val_accuracy:	0.9798
75/75	[]	- 09	4ms/step	- loss:	0.0346 -	accuracy:	0.9882 -	val_loss:	0.0629	- val_accuracy:	0.9798
75/75	702/800 [======]	- 09	4ms/step	- loss:	0.0345 -	accuracy:	0.9878 -	val_loss:	0.0625	- val_accuracy:	0.9811
	703/800	- 0	4ms/sten	- loss:	0.0344 -	accuracv:	0.9886 -	val_loss:	0.0621	- val_accuracv:	0.9798
Epoch	704/800										
/5/75	[]	- 09	5ms/step	- loss:	0.0344 -	accuracy:	0.9891 -	var_loss:	Ø.0629	- vai_accuracy:	v.9773

```
Epoch 705/800
                                         0s 5ms/step - loss: 0.0345 - accuracy: 0.9882 - val_loss: 0.0633 - val_accuracy: 0.9798
75/75 [===
Epoch 706/800
75/75 [==:
                                         0s 4ms/step - loss: 0.0344 - accuracy: 0.9886 - val loss: 0.0625 - val accuracy: 0.9811
      707/800
                                            5ms/step - loss: 0.0344 - accuracy: 0.9874 - val_loss: 0.0629 - val_accuracy: 0.9811
      708/800
Epoch
75/75 [=====
Epoch 709/800
                                         0s 5ms/step - loss: 0.0342 - accuracy: 0.9886 - val_loss: 0.0630 - val_accuracy: 0.9798
75/75 F
                                         0s 3ms/step - loss: 0.0344 - accuracy: 0.9878 - val loss: 0.0631 - val accuracy: 0.9811
      710/800
                                              ns/step - loss: 0.0343 - accuracy: 0.9882 - val_loss: 0.0633 - val_accuracy: 0.9811
                                            4ms/step - loss: 0.0341 - accuracy: 0.9886 - val_loss: 0.0632 - val_accuracy: 0.9785
75/75
Epoch 712/800
75/75
                                            3ms/step - loss: 0.0343 - accuracy: 0.9895 - val loss: 0.0635 - val accuracy: 0.9823
      713/800
                                            3ms/step - loss: 0.0344 - accuracy: 0.9882 - val_loss: 0.0631 - val_accuracy: 0.9811
      714/800
Epoch
                                         0s 3ms/step - loss: 0.0343 - accuracy: 0.9878 - val_loss: 0.0635 - val_accuracy: 0.9798
75/75 [=
Epoch 715/800
75/75 [=
                                       - 0s 3ms/step - loss: 0.0341 - accuracy: 0.9878 - val loss: 0.0640 - val accuracy: 0.9785
      716/800
                                            3ms/step - loss: 0.0343 - accuracy: 0.9878 - val_loss: 0.0632 - val_accuracy: 0.9811
      717/800
Epoch
                                         0s 3ms/step - loss: 0.0343 - accuracy: 0.9882 - val loss: 0.0635 - val accuracy: 0.9798
75/75 [==
Epoch 718/800
75/75
                                            3ms/step - loss: 0.0342 - accuracy: 0.9891 - val loss: 0.0634 - val accuracy: 0.9798
Epoch
75/75
      719/800
                                               s/step - loss: 0.0343 - accuracy: 0.9878 - val_loss: 0.0638 - val_accuracy: 0.9811
      720/800
Epoch
75/75 [=====
Fnoch 721/800
                                         0s 3ms/step - loss: 0.0338 - accuracy: 0.9886 - val loss: 0.0645 - val accuracy: 0.9785
75/75
                                         0s 3ms/step - loss: 0.0341 - accuracy: 0.9882 - val loss: 0.0635 - val accuracy: 0.9798
      722/800
      723/800
Epoch
                                            3ms/step - loss: 0.0340 - accuracy: 0.9882 - val_loss: 0.0641 - val_accuracy: 0.9798
75/75 [==
Epoch 724/800
75/75
                                            3ms/step - loss: 0.0344 - accuracy: 0.9886 - val_loss: 0.0641 - val_accuracy: 0.9811
      725/800
                                                     - loss: 0.0339 - accuracy: 0.9886 - val_loss: 0.0641 -
                                                                                                             val_accuracy: 0.9823
Epoch
      726/800
                                         0s 3ms/step - loss: 0.0341 - accuracy: 0.9895 - val loss: 0.0635 - val accuracy: 0.9811
75/75 [==
Epoch
      727/800
75/75
                                         0s 3ms/step - loss: 0.0339 - accuracy: 0.9882 - val loss: 0.0642 - val accuracy: 0.9785
      728/800
                                            3ms/step - loss: 0.0339 - accuracy: 0.9886 - val loss: 0.0644 - val accuracy: 0.9811
      729/800
Epoch
                                         0s 3ms/step - loss: 0.0339 - accuracy: 0.9891 - val loss: 0.0641 - val accuracy: 0.9798
75/75
Epoch
75/75
      730/800
                                            3ms/step - loss: 0.0335 - accuracy: 0.9891 - val_loss: 0.0641 - val_accuracy: 0.9798
      731/800
                                            3ms/step - loss: 0.0338 - accuracy: 0.9891 - val_loss: 0.0650 - val_accuracy: 0.9785
75/75 [=====
Epoch 732/800
75/75 [==
                                         0s 3ms/step - loss: 0.0338 - accuracy: 0.9886 - val loss: 0.0645 - val accuracy: 0.9773
      733/800
Fnoch
75/75
                                            4ms/step - loss: 0.0340 - accuracy: 0.9886 - val_loss: 0.0662 - val_accuracy: 0.9773
      .
734/800
                                            3ms/step - loss: 0.0337 - accuracy: 0.9878 - val_loss: 0.0642 - val_accuracy: 0.9798
      735/800
Epoch
75/75 [==
                                         0s 3ms/step - loss: 0.0338 - accuracy: 0.9882 - val loss: 0.0643 - val accuracy: 0.9798
Epoch 736/800
75/75 [=====
                                            3ms/step - loss: 0.0338 - accuracy: 0.9891 - val_loss: 0.0643 - val_accuracy: 0.9798
Epoch
75/75
      737/800
                                            4ms/step - loss: 0.0335 - accuracy: 0.9891 - val loss: 0.0652 - val accuracy: 0.9773
Epoch 738/800
75/75 [==
                                         0s 3ms/step - loss: 0.0337 - accuracy: 0.9886 - val loss: 0.0652 - val accuracy: 0.9785
Epoch
      739/800
75/75
                                            3ms/step - loss: 0.0334 - accuracy: 0.9882 - val_loss: 0.0649 - val_accuracy: 0.9798
      740/800
75/75 [======
Fnoch 741/800
                                         0s 3ms/step - loss: 0.0337 - accuracy: 0.9886 - val_loss: 0.0650 - val_accuracy: 0.9785
75/75 [==
                                         0s 3ms/step - loss: 0.0338 - accuracy: 0.9895 - val loss: 0.0644 - val accuracy: 0.9785
      742/800
                                            3ms/step - loss: 0.0337 - accuracy: 0.9886 - val_loss: 0.0646 - val_accuracy: 0.9798
      743/800
Epoch 74
75/75 [=
                                            3ms/step - loss: 0.0334 - accuracy: 0.9886 - val_loss: 0.0645 - val_accuracy: 0.9798
Epoch 744/800
75/75 [==
                                         0s 3ms/step - loss: 0.0331 - accuracy: 0.9899 - val loss: 0.0646 - val accuracy: 0.9798
Fnoch
      745/800
75/75
                                            3ms/step - loss: 0.0333 - accuracy: 0.9882 - val loss: 0.0646 - val accuracy: 0.9811
                                            3ms/step - loss: 0.0334 - accuracy: 0.9882 - val loss: 0.0640 - val accuracy: 0.9811
75/75
      747/800
Epoch
75/75 [==
                                         0s 3ms/step - loss: 0.0333 - accuracy: 0.9882 - val loss: 0.0650 - val accuracy: 0.9785
Epoch
75/75
      748/800
                                            3ms/step - loss: 0.0335 - accuracy: 0.9891 - val_loss: 0.0649 - val_accuracy: 0.9785
      749/800
                                         0s 3ms/step - loss: 0.0333 - accuracy: 0.9882 - val_loss: 0.0645 - val_accuracy: 0.9785
75/75 [==
Epoch 750/800
75/75 T
                                       - 0s 3ms/step - loss: 0.0332 - accuracy: 0.9882 - val loss: 0.0645 - val accuracy: 0.9798
      751/800
75/75
                                            3ms/step - loss: 0.0335 - accuracy: 0.9882 - val_loss: 0.0645 - val_accuracy: 0.9811
      752/800
Epoch
75/75 [=====
Epoch 753/800
                                         Os 4ms/step - loss: 0.0333 - accuracy: 0.9886 - val loss: 0.0654 - val accuracy: 0.9785
75/75 [=
                                         0s 4ms/step - loss: 0.0334 - accuracy: 0.9886 - val loss: 0.0648 - val accuracy: 0.9798
      754/800
                                             4ms/step - loss: 0.0334 - accuracy: 0.9895 - val_loss: 0.0650 - val_accuracy: 0.9798
      [=====
755/800
Epoch
75/75
                                         0s 4ms/step - loss: 0.0333 - accuracy: 0.9891 - val_loss: 0.0649 - val_accuracy: 0.9798
Epoch 756/800
75/75
                                         0s 4ms/step - loss: 0.0332 - accuracy: 0.9891 - val loss: 0.0641 - val accuracy: 0.9798
      757/800
                                            4ms/step - loss: 0.0331 - accuracy: 0.9895 - val_loss: 0.0649 - val_accuracy: 0.9798
      758/800
Epoch
                                            5ms/step - loss: 0.0332 - accuracy: 0.9891 - val_loss: 0.0654 - val_accuracy: 0.9811
75/75 [==
      759/800
Epoch
75/75 [==
                                            5ms/step - loss: 0.0329 - accuracy: 0.9891 - val_loss: 0.0688 - val_accuracy: 0.9747
      760/800
                                            5ms/step - loss: 0.0338 - accuracy: 0.9886 - val_loss: 0.0663 - val_accuracy: 0.9773
      761/800
Epoch
                                         Os 5ms/step - loss: 0.0334 - accuracy: 0.9886 - val loss: 0.0653 - val accuracy: 0.9798
75/75 [==
Epoch
      762/800
75/75
                                         0s 5ms/step - loss: 0.0330 - accuracy: 0.9895 - val loss: 0.0649 - val accuracy: 0.9798
Epoch
75/75
      763/800
                                            6ms/step - loss: 0.0332 - accuracy: 0.9886 - val_loss: 0.0654 - val_accuracy: 0.9785
      764/800
Epoch
75/75
                                         0s 5ms/step - loss: 0.0331 - accuracy: 0.9891 - val loss: 0.0658 - val accuracy: 0.9785
      765/800
Epoch
75/75
                                         0s 4ms/step - loss: 0.0331 - accuracy: 0.9891 - val_loss: 0.0655 - val_accuracy: 0.9785
      .
766/800
                                            5ms/step - loss: 0.0331 - accuracy: 0.9891 - val_loss: 0.0656 - val_accuracy: 0.9785
      767/800
                          :=======] - 0s 3ms/step - loss: 0.0324 - accuracy: 0.9878 - val_loss: 0.0659 - val_accuracy: 0.9798
75/75 [==
Fnoch 768/800
```

```
Epoch 769/800
                                     75/75 [===
          Epoch 770/800
          75/75 [==:
                                 :========] - 0s 4ms/step - loss: 0.0328 - accuracy: 0.9886 - val_loss: 0.0665 - val_accuracy: 0.9785
                771/800
                                             ==] - 0s 3ms/step - loss: 0.0331 - accuracy: 0.9891 - val_loss: 0.0661 - val_accuracy: 0.9773
                772/800
          Epoch
                                            ==] - Os 3ms/step - loss: 0.0327 - accuracy: 0.9891 - val_loss: 0.0659 - val_accuracy: 0.9773
          75/75 [=====
Epoch 773/800
          75/75 [==
                                774/800
          Epoch
75/75
                                     ========] - 0s 3ms/step - loss: 0.0326 - accuracy: 0.9886 - val_loss: 0.0657 - val_accuracy: 0.9798
                775/800
          Epoch 775,
75/75 [==:
                                           ===] - 0s 3ms/step - loss: 0.0328 - accuracy: 0.9891 - val_loss: 0.0658 - val_accuracy: 0.9811
          Epoch 776/800
          75/75 F
                                    :=======] - 0s 3ms/step - loss: 0.0328 - accuracy: 0.9882 - val_loss: 0.0662 - val_accuracy: 0.9785
                777/800
                                                 0s 3ms/step - loss: 0.0328 - accuracy: 0.9886 - val_loss: 0.0663 - val_accuracy: 0.9798
                778/800
          Epoch
                                           ====] - Os 3ms/step - loss: 0.0325 - accuracy: 0.9895 - val_loss: 0.0658 - val_accuracy: 0.9798
          75/75 [==
          Epoch 779/800
          75/75 [==:
                                   ========] - 0s 3ms/step - loss: 0.0328 - accuracy: 0.9886 - val_loss: 0.0661 - val_accuracy: 0.9811
                780/800
                                                 0s 3ms/step - loss: 0.0326 - accuracy: 0.9886 - val_loss: 0.0665 - val_accuracy: 0.9785
                781/800
          Epoch
                                           ===] - 0s 3ms/step - loss: 0.0319 - accuracy: 0.9891 - val loss: 0.0662 - val accuracy: 0.9798
          75/75 [==:
          Epoch 782/800
          75/75
                                   :=======] - 0s 3ms/step - loss: 0.0328 - accuracy: 0.9886 - val_loss: 0.0658 - val_accuracy: 0.9798
          Epoch
75/75
                783/800
                                                 0s 3ms/step - loss: 0.0328 - accuracy: 0.9882 - val_loss: 0.0661 - val_accuracy: 0.9798
                784/800
          Epoch
          75/75 [==:
                                    ========] - 0s 3ms/step - loss: 0.0326 - accuracy: 0.9891 - val loss: 0.0665 - val accuracy: 0.9785
          Epoch 785/800
          75/75 F
                                  ========] - 0s 3ms/step - loss: 0.0326 - accuracy: 0.9895 - val_loss: 0.0663 - val_accuracy: 0.9798
                786/800
                                    :=======] - 0s 3ms/step - loss: 0.0325 - accuracy: 0.9891 - val_loss: 0.0665 - val_accuracy: 0.9798
               787/800
          Epoch
                                     ======] - 0s 3ms/step - loss: 0.0327 - accuracy: 0.9891 - val_loss: 0.0657 - val_accuracy: 0.9811
          75/75 [==:
          Epoch 788/800
          75/75
                                    =======] - 0s 3ms/step - loss: 0.0325 - accuracy: 0.9886 - val_loss: 0.0659 - val_accuracy: 0.9811
                789/800
                                    -----] -
                                                 0s 3ms/step - loss: 0.0325 - accuracy: 0.9886 - val_loss: 0.0656 - val_accuracy: 0.9798
          Epoch 790/800
                                     75/75 [==
          Epoch 791/800
          75/75 I
                                   ========] - 0s 3ms/step - loss: 0.0322 - accuracy: 0.9886 - val_loss: 0.0672 - val_accuracy: 0.9773
                792/800
                                            ==] - 0s 3ms/step - loss: 0.0324 - accuracy: 0.9886 - val_loss: 0.0670 - val_accuracy: 0.9773
                793/800
          Epoch
                                    =======] - 0s 3ms/step - loss: 0.0322 - accuracy: 0.9874 - val loss: 0.0667 - val accuracy: 0.9811
          75/75 [===
          Epoch
75/75
                794/800
                                   =======] - 0s 3ms/step - loss: 0.0325 - accuracy: 0.9891 - val_loss: 0.0666 - val_accuracy: 0.9798
                795/800
                                                 0s 3ms/step - loss: 0.0325 - accuracy: 0.9886 - val_loss: 0.0665 - val_accuracy: 0.9811
          75/75 [=====
Epoch 796/800
          75/75 [==:
                                 =========] - 0s 3ms/step - loss: 0.0320 - accuracy: 0.9895 - val loss: 0.0678 - val accuracy: 0.9785
                797/800
          Fnoch
          75/75 I
                                    ========] - 0s 3ms/step - loss: 0.0325 - accuracy: 0.9882 - val_loss: 0.0673 - val_accuracy: 0.9798
                .
798/800
                                      ======] - 0s 3ms/step - loss: 0.0323 - accuracy: 0.9882 - val_loss: 0.0670 - val_accuracy: 0.9811
                799/800
          Epoch
                                    75/75 [=====
          75/75 [==
                800/800
                                   :======] - 0s 3ms/step - loss: 0.0324 - accuracy: 0.9886 - val_loss: 0.0667 - val_accuracy: 0.9798
         y_pred_prob_nn_supp3 = model_supp3.predict(X_test_norm)
y_pred_class_nn_supp3 = (y_pred_prob_nn_supp3 > 0.5).astype('int32')
          25/25 [======] - 0s 1ms/step
In [154... y_pred_class_nn_supp3[:10]
Out[154]: array([[1],
                 [1],
                 [1],
                 [1],
                 [0]], dtype=int32)
         y_pred_prob_nn_supp3[:10]
Out[155]: array([[9.9999905e-01],
                 [9.9905705e-01],
[9.9691033e-01],
[9.9999899e-01],
                 [9.9986291e-01],
                 [9.9948049e-01]
                 [9.9999982e-01]
                 [9.9930364e-01]
                 [9.5930364e-01],
[2.1352344e-03],
[3.7764621e-06]], dtype=float32)
In [156... run hist supp3.historv.kevs()
Out[156]: dict_keys(['loss', 'accuracy', 'val_loss', 'val_accuracy'])
         fig, ax = plt.subplots()
          ax.plot(run_hist_supp3.history['loss'], 'r', label = 'Train loss')
ax.plot(run_hist_supp3.history['val_loss'], 'b', label = "Val_loss")
ax_logend()
Out[157]: <matplotlib.legend.Legend at 0x7b29a2eee680>
```

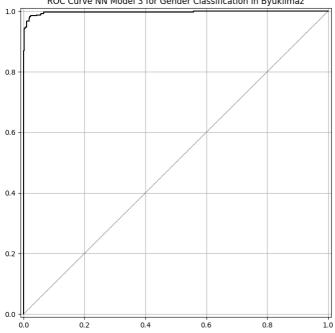
```
- Train loss
0.6
                                                      Val loss
0.5
0.4
0.3
0.2
0.1
           100
                  200
                         300
                                400
                                       500
                                              600
                                                     700
                                                            800
```

```
In [158... def plot_roc(y_test, y_pred, model_name):
    fpr, tpr, thr = roc_curve(y_test, y_pred)
    fig, ax = plt.subplots(figsize=(8, 8))
    ax.plot(fpr, tpr, 'k-')
    ax.plot([0, 1], [0, 1], 'k--', linewidth=.5)
    ax.grid(True)
    ax.set(title='ROC Curve {} for Gender Classification in Byukilmaz'.format(model_name),
        xlim=[-0.01, 1.01], ylim=[-0.01, 1.01])
```

In [161_
print('accuracy is {:.3f}'.format(accuracy_score(y_test,y_pred_class_nn_supp3)))
print('roc-auc is {:.3f}'.format(roc_auc_score(y_test,y_pred_prob_nn_supp3)))
plot_roc(y_test, y_pred_prob_nn_supp3, "NN Model 3")

accuracy is 0.980 roc-auc is 0.997

ROC Curve NN Model 3 for Gender Classification in Byukilmaz



• This model shows a

Conclusion

This activity demonstrates how does building and training the neural network underscore the importance of meticulous data preprocessing. And, Understanding the nature of the data, handling non-numeric values, and adapting code to different data structures in ensuring a smooth and error-free machine learning workflow.

Google Colab link

Colab Link:

https://colab.research.google.com/drive/1Sg9sGnBQyJAroSFE4ev3ObrURD91yTRZ?usp=sharing