**SAMPLE CODE**

import pandas as pd

import os

import librosa

Tess='C:/Users/User/Downloads/music detection/music classification detection/model/genres\_original/'

tess\_directory\_list = os.listdir(Tess)

file\_emotion = []

file\_path = []

for dir in tess\_directory\_list:

directories = os.listdir(Tess + dir)

print(directories)

for file in directories:

parts = file.split('.')[0]

print(parts)

file\_emotion.append(parts)

file\_path.append(Tess + dir + '/' + file)

# dataframe for emotion of files

emotion\_df = pd.DataFrame(file\_emotion, columns=['label'])

# dataframe for path of files.

path\_df = pd.DataFrame(file\_path, columns=['Path'])

Tess\_df = pd.concat([emotion\_df, path\_df], axis=1)

Tess\_df.head()

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label Path

0 blues C:/Users/User/Downloads/music detection/music ...

1 blues C:/Users/User/Downloads/music detection/music ...

2 blues C:/Users/User/Downloads/music detection/music ...

3 blues C:/Users/User/Downloads/music detection/music ...

4 blues C:/Users/User/Downloads/music detection/music ...

Tess\_df['label'].value\_counts()

blues 300

classical 300

country 300

disco 300

hiphop 300

metal 300

pop 300

reggae 300

rock 300

jazz 297

Name: label, dtype: int64

def features\_extractor(file):

audio, sample\_rate = librosa.load(file\_name, res\_type='kaiser\_fast')

mfccs\_features = librosa.feature.mfcc(y=audio, sr=sample\_rate, n\_mfcc=40)

mfccs\_scaled\_features = np.mean(mfccs\_features.T,axis=0)

return mfccs\_scaled\_features

import numpy as np

from tqdm import tqdm

### Now we iterate through every audio file and extract features

### using Mel-Frequency Cepstral Coefficients

extracted\_features=[]

for index\_num,row in tqdm(Tess\_df.iterrows()):

file\_name = os.path.join(os.path.abspath(Tess),str(row["Path"]))

final\_class\_labels=row["label"]

data=features\_extractor(file\_name)

extracted\_features.append([data,final\_class\_labels])

2997it [00:44, 67.11it/s]

extracted\_features\_df=pd.DataFrame(extracted\_features,columns=['feature','label'])

extracted\_features\_df.head()

# Storing the dataframe to pickle for further processing

extracted\_features\_df.to\_pickle("extracted\_df.pkl")

extracted\_features\_df.head()

feature label

0 [-125.25643, 120.20559, -18.326477, 44.870823,... blues

1 [-104.70713, 122.28179, -16.140682, 40.836025,... blues

2 [-112.96179, 125.00508, -25.69887, 44.08029, -... blues

3 [-221.96216, 131.09808, 0.51632625, 39.070675,... blues

4 [-222.06569, 124.18471, 11.23555, 38.641685, -... blues

final = pd.read\_pickle("./extracted\_df.pkl")

X = np.array(final["feature"].tolist())

y = np.array(final["label"].tolist())

import IPython.display as ipd

import librosa

import librosa.display

import pandas as pd

import os, time, warnings

import seaborn as sns

import numpy as np

from tqdm import tqdm

import matplotlib.pyplot as plt

from sklearn.model\_selection import train\_test\_split

from sklearn.preprocessing import LabelEncoder

from tensorflow.keras.utils import to\_categorical

from tensorflow.keras.models import Sequential

from tensorflow.keras.layers import (

Dense,

Conv1D,

MaxPooling1D,

BatchNormalization,

Dropout,

Flatten,

Conv2D,

MaxPool2D,

)

le = LabelEncoder()

# transform each category with it's respected label

Y = to\_categorical(le.fit\_transform(y))

X\_train, X\_test, y\_train, y\_test = train\_test\_split(

X, Y, test\_size=0.2, random\_state=50

)

# print the details

print("Number of training samples = ", X\_train.shape[0])

print("Number of testing samples = ", X\_test.shape[0])

Number of training samples = 2397

Number of testing samples = 600

num\_labels = Y.shape[1]

ANN\_Model = Sequential()

ANN\_Model.add(Dense(1024, activation="relu", input\_shape=(40,)))

ANN\_Model.add(Dropout(0.3))

ANN\_Model.add(Dense(750, activation="relu"))

ANN\_Model.add(Dropout(0.3))

ANN\_Model.add(Dense(500, activation="relu"))

ANN\_Model.add(Dropout(0.3))

ANN\_Model.add(Dense(250, activation="relu"))

ANN\_Model.add(Dropout(0.3))

ANN\_Model.add(Dense(100, activation="relu"))

ANN\_Model.add(Dropout(0.3))

ANN\_Model.add(Dense(50, activation="relu"))

ANN\_Model.add(Dropout(0.3))

ANN\_Model.add(Dense(num\_labels, activation="softmax"))

ANN\_Model.summary()

Model: "sequential"

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Layer (type) Output Shape Param #

=================================================================

dense (Dense) (None, 1024) 41984

dropout (Dropout) (None, 1024) 0

dense\_1 (Dense) (None, 750) 768750

dropout\_1 (Dropout) (None, 750) 0

dense\_2 (Dense) (None, 500) 375500

dropout\_2 (Dropout) (None, 500) 0

dense\_3 (Dense) (None, 250) 125250

dropout\_3 (Dropout) (None, 250) 0

dense\_4 (Dense) (None, 100) 25100

dropout\_4 (Dropout) (None, 100) 0

dense\_5 (Dense) (None, 50) 5050

dropout\_5 (Dropout) (None, 50) 0

dense\_6 (Dense) (None, 10) 510

=================================================================

Total params: 1,342,144

Trainable params: 1,342,144

Non-trainable params: 0

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ANN\_Model.compile(loss='categorical\_crossentropy',metrics=['accuracy'],optimizer='adam')

num\_epochs = 450

num\_batch\_size = 30

t0 = time.time()

history = ANN\_Model.fit(

X\_train,

y\_train,

batch\_size=num\_batch\_size,

epochs=num\_epochs,

validation\_data=(X\_test, y\_test),

)

ANN\_Model.save("Model1.h5")

print("ANN Model Saved")

Epoch 1/450

80/80 [==============================] - 2s 12ms/step - loss: 3.3060 - accuracy: 0.1202 - val\_loss: 2.2194 - val\_accuracy: 0.1567

Epoch 2/450

80/80 [==============================] - 1s 10ms/step - loss: 2.2510 - accuracy: 0.1581 - val\_loss: 2.0613 - val\_accuracy: 0.2533

Epoch 3/450

80/80 [==============================] - 1s 10ms/step - loss: 2.0963 - accuracy: 0.2215 - val\_loss: 1.9481 - val\_accuracy: 0.2850

Epoch 4/450

80/80 [==============================] - 1s 12ms/step - loss: 2.0001 - accuracy: 0.2662 - val\_loss: 1.7863 - val\_accuracy: 0.2967

Epoch 5/450

80/80 [==============================] - 1s 11ms/step - loss: 1.8813 - accuracy: 0.3104 - val\_loss: 1.7949 - val\_accuracy: 0.3917

Epoch 6/450

80/80 [==============================] - 1s 11ms/step - loss: 1.8377 - accuracy: 0.3300 - val\_loss: 1.7367 - val\_accuracy: 0.3667

Epoch 7/450

80/80 [==============================] - 1s 11ms/step - loss: 1.7869 - accuracy: 0.3379 - val\_loss: 1.6618 - val\_accuracy: 0.4233

Epoch 8/450

80/80 [==============================] - 1s 11ms/step - loss: 1.7293 - accuracy: 0.3642 - val\_loss: 1.5819 - val\_accuracy: 0.4117

Epoch 9/450

80/80 [==============================] - 1s 11ms/step - loss: 1.6754 - accuracy: 0.3813 - val\_loss: 1.5984 - val\_accuracy: 0.4667

Epoch 10/450

80/80 [==============================] - 1s 11ms/step - loss: 1.6295 - accuracy: 0.3905 - val\_loss: 1.5645 - val\_accuracy: 0.4367

Epoch 11/450

80/80 [==============================] - 1s 11ms/step - loss: 1.5869 - accuracy: 0.4189 - val\_loss: 1.4692 - val\_accuracy: 0.4833

Epoch 12/450

80/80 [==============================] - 1s 10ms/step - loss: 1.5394 - accuracy: 0.4401 - val\_loss: 1.4781 - val\_accuracy: 0.5133

Epoch 13/450

80/80 [==============================] - 1s 11ms/step - loss: 1.4806 - accuracy: 0.4743 - val\_loss: 1.4563 - val\_accuracy: 0.4717

Epoch 14/450

80/80 [==============================] - 1s 10ms/step - loss: 1.4779 - accuracy: 0.4727 - val\_loss: 1.3961 - val\_accuracy: 0.5217

Epoch 15/450

80/80 [==============================] - 1s 10ms/step - loss: 1.4010 - accuracy: 0.4944 - val\_loss: 1.3426 - val\_accuracy: 0.5300

Epoch 16/450

80/80 [==============================] - 1s 10ms/step - loss: 1.3993 - accuracy: 0.4990 - val\_loss: 1.3014 - val\_accuracy: 0.5483

Epoch 17/450

80/80 [==============================] - 1s 10ms/step - loss: 1.3836 - accuracy: 0.5123 - val\_loss: 1.2716 - val\_accuracy: 0.5667

Epoch 18/450

80/80 [==============================] - 1s 10ms/step - loss: 1.2990 - accuracy: 0.5290 - val\_loss: 1.2731 - val\_accuracy: 0.5850

Epoch 19/450

80/80 [==============================] - 1s 10ms/step - loss: 1.2626 - accuracy: 0.5557 - val\_loss: 1.1956 - val\_accuracy: 0.5933

Epoch 20/450

80/80 [==============================] - 1s 10ms/step - loss: 1.2478 - accuracy: 0.5494 - val\_loss: 1.2111 - val\_accuracy: 0.6000

Epoch 21/450

80/80 [==============================] - 1s 10ms/step - loss: 1.2360 - accuracy: 0.5665 - val\_loss: 1.3467 - val\_accuracy: 0.5333

Epoch 22/450

80/80 [==============================] - 1s 11ms/step - loss: 1.2069 - accuracy: 0.5841 - val\_loss: 1.2269 - val\_accuracy: 0.6083

Epoch 23/450

80/80 [==============================] - 1s 10ms/step - loss: 1.1405 - accuracy: 0.6037 - val\_loss: 1.2789 - val\_accuracy: 0.5750

Epoch 24/450

80/80 [==============================] - 1s 11ms/step - loss: 1.1644 - accuracy: 0.6099 - val\_loss: 1.0797 - val\_accuracy: 0.6417

Epoch 25/450

80/80 [==============================] - 1s 10ms/step - loss: 1.1014 - accuracy: 0.6095 - val\_loss: 1.1837 - val\_accuracy: 0.6250

Epoch 26/450

80/80 [==============================] - 1s 10ms/step - loss: 1.0517 - accuracy: 0.6504 - val\_loss: 1.1094 - val\_accuracy: 0.6517

Epoch 27/450

80/80 [==============================] - 1s 10ms/step - loss: 1.0266 - accuracy: 0.6521 - val\_loss: 1.0553 - val\_accuracy: 0.6667

Epoch 28/450

80/80 [==============================] - 1s 10ms/step - loss: 0.9978 - accuracy: 0.6583 - val\_loss: 1.1119 - val\_accuracy: 0.6483

Epoch 29/450

80/80 [==============================] - 1s 10ms/step - loss: 0.9900 - accuracy: 0.6721 - val\_loss: 1.0568 - val\_accuracy: 0.6717

Epoch 30/450

80/80 [==============================] - 1s 10ms/step - loss: 0.9831 - accuracy: 0.6775 - val\_loss: 1.0864 - val\_accuracy: 0.6400

Epoch 31/450

80/80 [==============================] - 1s 11ms/step - loss: 0.8974 - accuracy: 0.7071 - val\_loss: 0.9866 - val\_accuracy: 0.7050

Epoch 32/450

80/80 [==============================] - 1s 10ms/step - loss: 0.8787 - accuracy: 0.7092 - val\_loss: 1.0366 - val\_accuracy: 0.6817

Epoch 33/450

80/80 [==============================] - 1s 10ms/step - loss: 0.9035 - accuracy: 0.7042 - val\_loss: 1.0040 - val\_accuracy: 0.6833

Epoch 34/450

80/80 [==============================] - 1s 11ms/step - loss: 0.8811 - accuracy: 0.7113 - val\_loss: 0.9728 - val\_accuracy: 0.6817

Epoch 35/450

80/80 [==============================] - 1s 11ms/step - loss: 0.8454 - accuracy: 0.7146 - val\_loss: 1.0280 - val\_accuracy: 0.7117

Epoch 36/450

80/80 [==============================] - 1s 11ms/step - loss: 0.7388 - accuracy: 0.7626 - val\_loss: 0.9425 - val\_accuracy: 0.7167

Epoch 37/450

80/80 [==============================] - 1s 11ms/step - loss: 0.7858 - accuracy: 0.7422 - val\_loss: 1.0063 - val\_accuracy: 0.7133

Epoch 38/450

80/80 [==============================] - 1s 11ms/step - loss: 0.7695 - accuracy: 0.7572 - val\_loss: 0.9632 - val\_accuracy: 0.7000

Epoch 39/450

80/80 [==============================] - 1s 11ms/step - loss: 0.8224 - accuracy: 0.7434 - val\_loss: 0.9210 - val\_accuracy: 0.7300

Epoch 40/450

80/80 [==============================] - 1s 11ms/step - loss: 0.7061 - accuracy: 0.7730 - val\_loss: 1.0182 - val\_accuracy: 0.7067

Epoch 41/450

80/80 [==============================] - 1s 10ms/step - loss: 0.7896 - accuracy: 0.7568 - val\_loss: 0.8986 - val\_accuracy: 0.7317

Epoch 42/450

80/80 [==============================] - 1s 10ms/step - loss: 0.6979 - accuracy: 0.7764 - val\_loss: 0.8781 - val\_accuracy: 0.7383

Epoch 43/450

80/80 [==============================] - 1s 10ms/step - loss: 0.7159 - accuracy: 0.7764 - val\_loss: 0.9459 - val\_accuracy: 0.7300

Epoch 44/450

80/80 [==============================] - 1s 10ms/step - loss: 0.6882 - accuracy: 0.7810 - val\_loss: 0.9639 - val\_accuracy: 0.7417

Epoch 45/450

80/80 [==============================] - 1s 10ms/step - loss: 0.6796 - accuracy: 0.7881 - val\_loss: 0.9000 - val\_accuracy: 0.7400

Epoch 46/450

80/80 [==============================] - 1s 10ms/step - loss: 0.7075 - accuracy: 0.7952 - val\_loss: 0.9498 - val\_accuracy: 0.7550

Epoch 47/450

80/80 [==============================] - 1s 10ms/step - loss: 0.6194 - accuracy: 0.8048 - val\_loss: 0.9653 - val\_accuracy: 0.7483

Epoch 48/450

80/80 [==============================] - 1s 10ms/step - loss: 0.5809 - accuracy: 0.8156 - val\_loss: 0.9330 - val\_accuracy: 0.7683

Epoch 49/450

80/80 [==============================] - 1s 11ms/step - loss: 0.5715 - accuracy: 0.8202 - val\_loss: 0.9563 - val\_accuracy: 0.7833

Epoch 50/450

80/80 [==============================] - 1s 10ms/step - loss: 0.5202 - accuracy: 0.8452 - val\_loss: 0.8698 - val\_accuracy: 0.7650

Epoch 51/450

80/80 [==============================] - 1s 10ms/step - loss: 0.5496 - accuracy: 0.8323 - val\_loss: 0.9160 - val\_accuracy: 0.7583

Epoch 52/450

80/80 [==============================] - 1s 10ms/step - loss: 0.5741 - accuracy: 0.8260 - val\_loss: 0.8348 - val\_accuracy: 0.7833

Epoch 53/450

80/80 [==============================] - 1s 10ms/step - loss: 0.5368 - accuracy: 0.8385 - val\_loss: 0.7980 - val\_accuracy: 0.7817

Epoch 54/450

80/80 [==============================] - 1s 10ms/step - loss: 0.6035 - accuracy: 0.8189 - val\_loss: 0.8766 - val\_accuracy: 0.7633

Epoch 55/450

80/80 [==============================] - 1s 10ms/step - loss: 0.5508 - accuracy: 0.8327 - val\_loss: 0.9122 - val\_accuracy: 0.7883

Epoch 56/450

80/80 [==============================] - 1s 10ms/step - loss: 0.5275 - accuracy: 0.8490 - val\_loss: 1.0140 - val\_accuracy: 0.7683

Epoch 57/450

80/80 [==============================] - 1s 10ms/step - loss: 0.5428 - accuracy: 0.8540 - val\_loss: 0.9226 - val\_accuracy: 0.7867

Epoch 58/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4294 - accuracy: 0.8782 - val\_loss: 0.6997 - val\_accuracy: 0.8117

Epoch 59/450

80/80 [==============================] - 1s 11ms/step - loss: 0.4492 - accuracy: 0.8711 - val\_loss: 0.7313 - val\_accuracy: 0.8233

Epoch 60/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4118 - accuracy: 0.8840 - val\_loss: 0.7480 - val\_accuracy: 0.8167

Epoch 61/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4957 - accuracy: 0.8661 - val\_loss: 0.7910 - val\_accuracy: 0.8150

Epoch 62/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4371 - accuracy: 0.8744 - val\_loss: 0.7190 - val\_accuracy: 0.8150

Epoch 63/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4350 - accuracy: 0.8740 - val\_loss: 0.7862 - val\_accuracy: 0.8133

Epoch 64/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3916 - accuracy: 0.8865 - val\_loss: 0.8059 - val\_accuracy: 0.8333

Epoch 65/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4322 - accuracy: 0.8798 - val\_loss: 0.8573 - val\_accuracy: 0.8033

Epoch 66/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4750 - accuracy: 0.8661 - val\_loss: 0.9400 - val\_accuracy: 0.7767

Epoch 67/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4318 - accuracy: 0.8736 - val\_loss: 0.8383 - val\_accuracy: 0.8233

Epoch 68/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3627 - accuracy: 0.8924 - val\_loss: 0.8262 - val\_accuracy: 0.8250

Epoch 69/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3910 - accuracy: 0.8903 - val\_loss: 0.8720 - val\_accuracy: 0.8167

Epoch 70/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3623 - accuracy: 0.8982 - val\_loss: 1.0273 - val\_accuracy: 0.7900

Epoch 71/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3571 - accuracy: 0.8974 - val\_loss: 0.8017 - val\_accuracy: 0.8217

Epoch 72/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3589 - accuracy: 0.8986 - val\_loss: 0.8409 - val\_accuracy: 0.8150

Epoch 73/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4048 - accuracy: 0.8915 - val\_loss: 0.9184 - val\_accuracy: 0.8150

Epoch 74/450

80/80 [==============================] - 1s 11ms/step - loss: 0.3505 - accuracy: 0.8990 - val\_loss: 0.7622 - val\_accuracy: 0.8217

Epoch 75/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3890 - accuracy: 0.8869 - val\_loss: 0.7949 - val\_accuracy: 0.8400

Epoch 76/450

80/80 [==============================] - 1s 11ms/step - loss: 0.2821 - accuracy: 0.9220 - val\_loss: 0.8844 - val\_accuracy: 0.8283

Epoch 77/450

80/80 [==============================] - 1s 11ms/step - loss: 0.3174 - accuracy: 0.9078 - val\_loss: 0.9158 - val\_accuracy: 0.8217

Epoch 78/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4044 - accuracy: 0.8886 - val\_loss: 0.7848 - val\_accuracy: 0.8350

Epoch 79/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2949 - accuracy: 0.9203 - val\_loss: 0.7597 - val\_accuracy: 0.8367

Epoch 80/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2875 - accuracy: 0.9157 - val\_loss: 0.8825 - val\_accuracy: 0.8533

Epoch 81/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3003 - accuracy: 0.9199 - val\_loss: 1.0837 - val\_accuracy: 0.8450

Epoch 82/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2817 - accuracy: 0.9270 - val\_loss: 0.9165 - val\_accuracy: 0.8517

Epoch 83/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3173 - accuracy: 0.9116 - val\_loss: 0.8541 - val\_accuracy: 0.8283

Epoch 84/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2887 - accuracy: 0.9153 - val\_loss: 0.7223 - val\_accuracy: 0.8467

Epoch 85/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2704 - accuracy: 0.9262 - val\_loss: 0.9667 - val\_accuracy: 0.8517

Epoch 86/450

80/80 [==============================] - 1s 11ms/step - loss: 0.3430 - accuracy: 0.9103 - val\_loss: 0.7660 - val\_accuracy: 0.8067

Epoch 87/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3060 - accuracy: 0.9195 - val\_loss: 0.7644 - val\_accuracy: 0.8483

Epoch 88/450

80/80 [==============================] - 1s 10ms/step - loss: 0.4081 - accuracy: 0.8936 - val\_loss: 0.8084 - val\_accuracy: 0.8450

Epoch 89/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3245 - accuracy: 0.9145 - val\_loss: 0.8464 - val\_accuracy: 0.8400

Epoch 90/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3338 - accuracy: 0.9132 - val\_loss: 0.8075 - val\_accuracy: 0.8383

Epoch 91/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3108 - accuracy: 0.9266 - val\_loss: 0.7795 - val\_accuracy: 0.8450

Epoch 92/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2381 - accuracy: 0.9341 - val\_loss: 0.8095 - val\_accuracy: 0.8483

Epoch 93/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3076 - accuracy: 0.9224 - val\_loss: 0.7383 - val\_accuracy: 0.8433

Epoch 94/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2413 - accuracy: 0.9257 - val\_loss: 0.8951 - val\_accuracy: 0.8517

Epoch 95/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2454 - accuracy: 0.9391 - val\_loss: 0.9685 - val\_accuracy: 0.8633

Epoch 96/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2453 - accuracy: 0.9349 - val\_loss: 1.3700 - val\_accuracy: 0.8150

Epoch 97/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3213 - accuracy: 0.9274 - val\_loss: 1.2105 - val\_accuracy: 0.8217

Epoch 98/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2681 - accuracy: 0.9282 - val\_loss: 1.0907 - val\_accuracy: 0.8517

Epoch 99/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2503 - accuracy: 0.9445 - val\_loss: 0.9470 - val\_accuracy: 0.8517

Epoch 100/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2625 - accuracy: 0.9337 - val\_loss: 0.9724 - val\_accuracy: 0.8267

Epoch 101/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2772 - accuracy: 0.9316 - val\_loss: 0.9123 - val\_accuracy: 0.8317

Epoch 102/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2394 - accuracy: 0.9387 - val\_loss: 0.8201 - val\_accuracy: 0.8633

Epoch 103/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2793 - accuracy: 0.9266 - val\_loss: 0.7788 - val\_accuracy: 0.8350

Epoch 104/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2860 - accuracy: 0.9262 - val\_loss: 0.7753 - val\_accuracy: 0.8450

Epoch 105/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2651 - accuracy: 0.9374 - val\_loss: 0.8795 - val\_accuracy: 0.8567

Epoch 106/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2242 - accuracy: 0.9479 - val\_loss: 1.0984 - val\_accuracy: 0.8467

Epoch 107/450

80/80 [==============================] - 1s 11ms/step - loss: 0.2337 - accuracy: 0.9366 - val\_loss: 0.9101 - val\_accuracy: 0.8567

Epoch 108/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1980 - accuracy: 0.9466 - val\_loss: 0.9751 - val\_accuracy: 0.8450

Epoch 109/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2271 - accuracy: 0.9424 - val\_loss: 1.0224 - val\_accuracy: 0.8400

Epoch 110/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2021 - accuracy: 0.9453 - val\_loss: 1.3274 - val\_accuracy: 0.8417

Epoch 111/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2116 - accuracy: 0.9545 - val\_loss: 0.8397 - val\_accuracy: 0.8450

Epoch 112/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2055 - accuracy: 0.9499 - val\_loss: 1.1942 - val\_accuracy: 0.8367

Epoch 113/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3076 - accuracy: 0.9295 - val\_loss: 0.6861 - val\_accuracy: 0.8583

Epoch 114/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2551 - accuracy: 0.9312 - val\_loss: 0.8133 - val\_accuracy: 0.8483

Epoch 115/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2631 - accuracy: 0.9370 - val\_loss: 0.8108 - val\_accuracy: 0.8567

Epoch 116/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2290 - accuracy: 0.9495 - val\_loss: 0.8433 - val\_accuracy: 0.8383

Epoch 117/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2169 - accuracy: 0.9453 - val\_loss: 0.8490 - val\_accuracy: 0.8500

Epoch 118/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1832 - accuracy: 0.9474 - val\_loss: 1.0507 - val\_accuracy: 0.8383

Epoch 119/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2423 - accuracy: 0.9437 - val\_loss: 1.0460 - val\_accuracy: 0.8083

Epoch 120/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2141 - accuracy: 0.9487 - val\_loss: 0.8929 - val\_accuracy: 0.8400

Epoch 121/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2170 - accuracy: 0.9412 - val\_loss: 0.7070 - val\_accuracy: 0.8600

Epoch 122/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2085 - accuracy: 0.9408 - val\_loss: 0.7647 - val\_accuracy: 0.8750

Epoch 123/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2312 - accuracy: 0.9487 - val\_loss: 0.9191 - val\_accuracy: 0.8450

Epoch 124/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2403 - accuracy: 0.9362 - val\_loss: 0.6882 - val\_accuracy: 0.8683

Epoch 125/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2090 - accuracy: 0.9504 - val\_loss: 0.6099 - val\_accuracy: 0.8567

Epoch 126/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2131 - accuracy: 0.9441 - val\_loss: 0.9614 - val\_accuracy: 0.8567

Epoch 127/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2267 - accuracy: 0.9453 - val\_loss: 0.7472 - val\_accuracy: 0.8433

Epoch 128/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1901 - accuracy: 0.9537 - val\_loss: 1.1454 - val\_accuracy: 0.8333

Epoch 129/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2627 - accuracy: 0.9383 - val\_loss: 0.8697 - val\_accuracy: 0.8500

Epoch 130/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2148 - accuracy: 0.9466 - val\_loss: 0.9697 - val\_accuracy: 0.8533

Epoch 131/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1531 - accuracy: 0.9604 - val\_loss: 1.1128 - val\_accuracy: 0.8467

Epoch 132/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2049 - accuracy: 0.9483 - val\_loss: 0.8928 - val\_accuracy: 0.8683

Epoch 133/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2574 - accuracy: 0.9399 - val\_loss: 0.9302 - val\_accuracy: 0.8533

Epoch 134/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2328 - accuracy: 0.9428 - val\_loss: 0.9395 - val\_accuracy: 0.8550

Epoch 135/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1859 - accuracy: 0.9474 - val\_loss: 1.0152 - val\_accuracy: 0.8783

Epoch 136/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1350 - accuracy: 0.9629 - val\_loss: 1.1241 - val\_accuracy: 0.8400

Epoch 137/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2729 - accuracy: 0.9399 - val\_loss: 1.1456 - val\_accuracy: 0.8233

Epoch 138/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2756 - accuracy: 0.9299 - val\_loss: 0.8320 - val\_accuracy: 0.8367

Epoch 139/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1515 - accuracy: 0.9579 - val\_loss: 0.7747 - val\_accuracy: 0.8633

Epoch 140/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1774 - accuracy: 0.9545 - val\_loss: 0.8746 - val\_accuracy: 0.8350

Epoch 141/450

80/80 [==============================] - 1s 10ms/step - loss: 0.3217 - accuracy: 0.9274 - val\_loss: 0.6733 - val\_accuracy: 0.8517

Epoch 142/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1924 - accuracy: 0.9524 - val\_loss: 0.7079 - val\_accuracy: 0.8600

Epoch 143/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1634 - accuracy: 0.9625 - val\_loss: 0.9770 - val\_accuracy: 0.8550

Epoch 144/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2203 - accuracy: 0.9424 - val\_loss: 0.8743 - val\_accuracy: 0.8367

Epoch 145/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1980 - accuracy: 0.9504 - val\_loss: 0.8547 - val\_accuracy: 0.8667

Epoch 146/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1988 - accuracy: 0.9562 - val\_loss: 0.8123 - val\_accuracy: 0.8667

Epoch 147/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1585 - accuracy: 0.9616 - val\_loss: 0.7534 - val\_accuracy: 0.8600

Epoch 148/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1491 - accuracy: 0.9695 - val\_loss: 0.8745 - val\_accuracy: 0.8617

Epoch 149/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1950 - accuracy: 0.9529 - val\_loss: 0.7999 - val\_accuracy: 0.8700

Epoch 150/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1258 - accuracy: 0.9633 - val\_loss: 0.9238 - val\_accuracy: 0.8600

Epoch 151/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1492 - accuracy: 0.9675 - val\_loss: 0.8224 - val\_accuracy: 0.8767

Epoch 152/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1330 - accuracy: 0.9675 - val\_loss: 1.0183 - val\_accuracy: 0.8750

Epoch 153/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1804 - accuracy: 0.9583 - val\_loss: 1.0652 - val\_accuracy: 0.8417

Epoch 154/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2082 - accuracy: 0.9470 - val\_loss: 1.0142 - val\_accuracy: 0.8300

Epoch 155/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1802 - accuracy: 0.9512 - val\_loss: 0.8883 - val\_accuracy: 0.8517

Epoch 156/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1414 - accuracy: 0.9604 - val\_loss: 0.9005 - val\_accuracy: 0.8600

Epoch 157/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2716 - accuracy: 0.9416 - val\_loss: 0.7774 - val\_accuracy: 0.8467

Epoch 158/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2265 - accuracy: 0.9428 - val\_loss: 0.9413 - val\_accuracy: 0.8633

Epoch 159/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1911 - accuracy: 0.9508 - val\_loss: 0.6234 - val\_accuracy: 0.8767

Epoch 160/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1316 - accuracy: 0.9700 - val\_loss: 0.7850 - val\_accuracy: 0.8733

Epoch 161/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1957 - accuracy: 0.9516 - val\_loss: 0.7379 - val\_accuracy: 0.8767

Epoch 162/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2279 - accuracy: 0.9420 - val\_loss: 0.8511 - val\_accuracy: 0.8600

Epoch 163/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1560 - accuracy: 0.9591 - val\_loss: 0.8750 - val\_accuracy: 0.8717

Epoch 164/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1673 - accuracy: 0.9620 - val\_loss: 1.0342 - val\_accuracy: 0.8350

Epoch 165/450

80/80 [==============================] - 1s 11ms/step - loss: 0.2686 - accuracy: 0.9449 - val\_loss: 0.6380 - val\_accuracy: 0.8683

Epoch 166/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1699 - accuracy: 0.9595 - val\_loss: 0.6010 - val\_accuracy: 0.8900

Epoch 167/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1605 - accuracy: 0.9641 - val\_loss: 0.7452 - val\_accuracy: 0.8800

Epoch 168/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1458 - accuracy: 0.9654 - val\_loss: 0.6860 - val\_accuracy: 0.8717

Epoch 169/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1242 - accuracy: 0.9675 - val\_loss: 0.6873 - val\_accuracy: 0.8750

Epoch 170/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1810 - accuracy: 0.9537 - val\_loss: 0.6497 - val\_accuracy: 0.8683

Epoch 171/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1733 - accuracy: 0.9591 - val\_loss: 0.6209 - val\_accuracy: 0.8783

Epoch 172/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1964 - accuracy: 0.9545 - val\_loss: 0.7194 - val\_accuracy: 0.8717

Epoch 173/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1673 - accuracy: 0.9583 - val\_loss: 0.5778 - val\_accuracy: 0.8717

Epoch 174/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1609 - accuracy: 0.9625 - val\_loss: 0.7194 - val\_accuracy: 0.8667

Epoch 175/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1661 - accuracy: 0.9599 - val\_loss: 0.6869 - val\_accuracy: 0.8783

Epoch 176/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1377 - accuracy: 0.9670 - val\_loss: 0.6248 - val\_accuracy: 0.8733

Epoch 177/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1443 - accuracy: 0.9620 - val\_loss: 0.7692 - val\_accuracy: 0.8683

Epoch 178/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2010 - accuracy: 0.9545 - val\_loss: 0.6821 - val\_accuracy: 0.8417

Epoch 179/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1896 - accuracy: 0.9512 - val\_loss: 0.6668 - val\_accuracy: 0.8533

Epoch 180/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2357 - accuracy: 0.9433 - val\_loss: 0.6759 - val\_accuracy: 0.8850

Epoch 181/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1823 - accuracy: 0.9545 - val\_loss: 0.5785 - val\_accuracy: 0.8700

Epoch 182/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1512 - accuracy: 0.9591 - val\_loss: 0.6533 - val\_accuracy: 0.8967

Epoch 183/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0914 - accuracy: 0.9746 - val\_loss: 0.9875 - val\_accuracy: 0.8517

Epoch 184/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1934 - accuracy: 0.9541 - val\_loss: 0.6973 - val\_accuracy: 0.8800

Epoch 185/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1001 - accuracy: 0.9758 - val\_loss: 0.7736 - val\_accuracy: 0.8800

Epoch 186/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1788 - accuracy: 0.9583 - val\_loss: 0.9094 - val\_accuracy: 0.8600

Epoch 187/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1657 - accuracy: 0.9558 - val\_loss: 0.8204 - val\_accuracy: 0.8850

Epoch 188/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1652 - accuracy: 0.9608 - val\_loss: 1.5429 - val\_accuracy: 0.8483

Epoch 189/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2267 - accuracy: 0.9437 - val\_loss: 0.7869 - val\_accuracy: 0.8617

Epoch 190/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2252 - accuracy: 0.9445 - val\_loss: 0.7359 - val\_accuracy: 0.8717

Epoch 191/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1297 - accuracy: 0.9625 - val\_loss: 1.1101 - val\_accuracy: 0.8700

Epoch 192/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1254 - accuracy: 0.9679 - val\_loss: 0.7917 - val\_accuracy: 0.8567

Epoch 193/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1419 - accuracy: 0.9608 - val\_loss: 0.8403 - val\_accuracy: 0.8717

Epoch 194/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1561 - accuracy: 0.9629 - val\_loss: 0.7192 - val\_accuracy: 0.8767

Epoch 195/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1725 - accuracy: 0.9566 - val\_loss: 0.8310 - val\_accuracy: 0.8583

Epoch 196/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1643 - accuracy: 0.9595 - val\_loss: 0.8304 - val\_accuracy: 0.8717

Epoch 197/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1500 - accuracy: 0.9662 - val\_loss: 1.3657 - val\_accuracy: 0.8633

Epoch 198/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1355 - accuracy: 0.9645 - val\_loss: 0.7501 - val\_accuracy: 0.8717

Epoch 199/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1098 - accuracy: 0.9746 - val\_loss: 0.7629 - val\_accuracy: 0.8867

Epoch 200/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1097 - accuracy: 0.9725 - val\_loss: 1.1023 - val\_accuracy: 0.8567

Epoch 201/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1168 - accuracy: 0.9695 - val\_loss: 0.8769 - val\_accuracy: 0.8733

Epoch 202/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1285 - accuracy: 0.9666 - val\_loss: 0.8395 - val\_accuracy: 0.8750

Epoch 203/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1139 - accuracy: 0.9733 - val\_loss: 0.8650 - val\_accuracy: 0.8733

Epoch 204/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1147 - accuracy: 0.9704 - val\_loss: 1.0265 - val\_accuracy: 0.8783

Epoch 205/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1606 - accuracy: 0.9679 - val\_loss: 1.0163 - val\_accuracy: 0.8767

Epoch 206/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1798 - accuracy: 0.9533 - val\_loss: 0.8889 - val\_accuracy: 0.8833

Epoch 207/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1541 - accuracy: 0.9579 - val\_loss: 1.1146 - val\_accuracy: 0.8767

Epoch 208/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1654 - accuracy: 0.9579 - val\_loss: 0.9725 - val\_accuracy: 0.8750

Epoch 209/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1543 - accuracy: 0.9645 - val\_loss: 1.2863 - val\_accuracy: 0.8433

Epoch 210/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1841 - accuracy: 0.9529 - val\_loss: 0.8865 - val\_accuracy: 0.8717

Epoch 211/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2042 - accuracy: 0.9545 - val\_loss: 1.4410 - val\_accuracy: 0.8500

Epoch 212/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1652 - accuracy: 0.9666 - val\_loss: 0.9075 - val\_accuracy: 0.8617

Epoch 213/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1319 - accuracy: 0.9675 - val\_loss: 0.7215 - val\_accuracy: 0.8800

Epoch 214/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1445 - accuracy: 0.9758 - val\_loss: 0.9302 - val\_accuracy: 0.8733

Epoch 215/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0980 - accuracy: 0.9775 - val\_loss: 0.9998 - val\_accuracy: 0.8750

Epoch 216/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0964 - accuracy: 0.9779 - val\_loss: 1.1107 - val\_accuracy: 0.8517

Epoch 217/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2189 - accuracy: 0.9524 - val\_loss: 0.9340 - val\_accuracy: 0.8717

Epoch 218/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1883 - accuracy: 0.9512 - val\_loss: 0.8505 - val\_accuracy: 0.8733

Epoch 219/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1738 - accuracy: 0.9645 - val\_loss: 0.9527 - val\_accuracy: 0.8633

Epoch 220/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1476 - accuracy: 0.9620 - val\_loss: 0.9715 - val\_accuracy: 0.8650

Epoch 221/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1429 - accuracy: 0.9670 - val\_loss: 1.2006 - val\_accuracy: 0.8800

Epoch 222/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1950 - accuracy: 0.9633 - val\_loss: 1.1282 - val\_accuracy: 0.8600

Epoch 223/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1372 - accuracy: 0.9650 - val\_loss: 0.8750 - val\_accuracy: 0.8867

Epoch 224/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1245 - accuracy: 0.9683 - val\_loss: 0.8767 - val\_accuracy: 0.8817

Epoch 225/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1713 - accuracy: 0.9666 - val\_loss: 0.8918 - val\_accuracy: 0.8583

Epoch 226/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1641 - accuracy: 0.9704 - val\_loss: 0.8010 - val\_accuracy: 0.8683

Epoch 227/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1541 - accuracy: 0.9679 - val\_loss: 0.8348 - val\_accuracy: 0.8650

Epoch 228/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1154 - accuracy: 0.9733 - val\_loss: 0.7936 - val\_accuracy: 0.8900

Epoch 229/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0675 - accuracy: 0.9829 - val\_loss: 0.7742 - val\_accuracy: 0.8950

Epoch 230/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1365 - accuracy: 0.9725 - val\_loss: 0.9076 - val\_accuracy: 0.8900

Epoch 231/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1508 - accuracy: 0.9650 - val\_loss: 0.8842 - val\_accuracy: 0.8817

Epoch 232/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1221 - accuracy: 0.9700 - val\_loss: 0.9457 - val\_accuracy: 0.8800

Epoch 233/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1549 - accuracy: 0.9729 - val\_loss: 1.0137 - val\_accuracy: 0.8800

Epoch 234/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1269 - accuracy: 0.9737 - val\_loss: 1.0398 - val\_accuracy: 0.8500

Epoch 235/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1180 - accuracy: 0.9733 - val\_loss: 1.1230 - val\_accuracy: 0.8583

Epoch 236/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1293 - accuracy: 0.9716 - val\_loss: 1.1041 - val\_accuracy: 0.8867

Epoch 237/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1138 - accuracy: 0.9729 - val\_loss: 0.9404 - val\_accuracy: 0.8833

Epoch 238/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1529 - accuracy: 0.9683 - val\_loss: 1.5549 - val\_accuracy: 0.8550

Epoch 239/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1969 - accuracy: 0.9579 - val\_loss: 0.8517 - val\_accuracy: 0.8700

Epoch 240/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1498 - accuracy: 0.9666 - val\_loss: 0.9189 - val\_accuracy: 0.8750

Epoch 241/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1893 - accuracy: 0.9679 - val\_loss: 0.9843 - val\_accuracy: 0.8633

Epoch 242/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1191 - accuracy: 0.9712 - val\_loss: 0.7459 - val\_accuracy: 0.8783

Epoch 243/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1274 - accuracy: 0.9675 - val\_loss: 1.0477 - val\_accuracy: 0.8550

Epoch 244/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1167 - accuracy: 0.9700 - val\_loss: 0.9358 - val\_accuracy: 0.8817

Epoch 245/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1377 - accuracy: 0.9666 - val\_loss: 1.0769 - val\_accuracy: 0.8667

Epoch 246/450

80/80 [==============================] - 1s 12ms/step - loss: 0.2786 - accuracy: 0.9545 - val\_loss: 0.6826 - val\_accuracy: 0.8700

Epoch 247/450

80/80 [==============================] - 1s 13ms/step - loss: 0.1334 - accuracy: 0.9679 - val\_loss: 0.7639 - val\_accuracy: 0.8817

Epoch 248/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0751 - accuracy: 0.9783 - val\_loss: 0.8118 - val\_accuracy: 0.8750

Epoch 249/450

80/80 [==============================] - 1s 12ms/step - loss: 0.0897 - accuracy: 0.9804 - val\_loss: 1.0218 - val\_accuracy: 0.8633

Epoch 250/450

80/80 [==============================] - 1s 13ms/step - loss: 0.1248 - accuracy: 0.9733 - val\_loss: 1.1249 - val\_accuracy: 0.8517

Epoch 251/450

80/80 [==============================] - 1s 13ms/step - loss: 0.0830 - accuracy: 0.9750 - val\_loss: 0.8919 - val\_accuracy: 0.8850

Epoch 252/450

80/80 [==============================] - 1s 13ms/step - loss: 0.1023 - accuracy: 0.9779 - val\_loss: 1.0668 - val\_accuracy: 0.8533

Epoch 253/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1794 - accuracy: 0.9670 - val\_loss: 0.9128 - val\_accuracy: 0.8383

Epoch 254/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1878 - accuracy: 0.9591 - val\_loss: 0.6927 - val\_accuracy: 0.8767

Epoch 255/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1195 - accuracy: 0.9771 - val\_loss: 0.7687 - val\_accuracy: 0.8783

Epoch 256/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1490 - accuracy: 0.9683 - val\_loss: 0.7526 - val\_accuracy: 0.8683

Epoch 257/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1594 - accuracy: 0.9675 - val\_loss: 0.8344 - val\_accuracy: 0.8883

Epoch 258/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1440 - accuracy: 0.9612 - val\_loss: 0.7791 - val\_accuracy: 0.8783

Epoch 259/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1091 - accuracy: 0.9750 - val\_loss: 0.9152 - val\_accuracy: 0.8800

Epoch 260/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0676 - accuracy: 0.9791 - val\_loss: 1.0484 - val\_accuracy: 0.8783

Epoch 261/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1721 - accuracy: 0.9666 - val\_loss: 0.8714 - val\_accuracy: 0.8700

Epoch 262/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0877 - accuracy: 0.9746 - val\_loss: 1.0141 - val\_accuracy: 0.8767

Epoch 263/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1157 - accuracy: 0.9737 - val\_loss: 0.9924 - val\_accuracy: 0.8633

Epoch 264/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1049 - accuracy: 0.9771 - val\_loss: 1.0846 - val\_accuracy: 0.8800

Epoch 265/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0996 - accuracy: 0.9825 - val\_loss: 1.0582 - val\_accuracy: 0.8617

Epoch 266/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0957 - accuracy: 0.9821 - val\_loss: 1.1830 - val\_accuracy: 0.8600

Epoch 267/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0907 - accuracy: 0.9750 - val\_loss: 1.1216 - val\_accuracy: 0.8583

Epoch 268/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1036 - accuracy: 0.9741 - val\_loss: 1.0681 - val\_accuracy: 0.8650

Epoch 269/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0952 - accuracy: 0.9754 - val\_loss: 1.0053 - val\_accuracy: 0.8800

Epoch 270/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1293 - accuracy: 0.9675 - val\_loss: 1.0426 - val\_accuracy: 0.8817

Epoch 271/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1002 - accuracy: 0.9833 - val\_loss: 0.9600 - val\_accuracy: 0.8700

Epoch 272/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1350 - accuracy: 0.9766 - val\_loss: 1.0778 - val\_accuracy: 0.8783

Epoch 273/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0894 - accuracy: 0.9762 - val\_loss: 1.0951 - val\_accuracy: 0.8817

Epoch 274/450

80/80 [==============================] - 1s 11ms/step - loss: 0.2134 - accuracy: 0.9566 - val\_loss: 1.1052 - val\_accuracy: 0.8367

Epoch 275/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1584 - accuracy: 0.9650 - val\_loss: 1.0507 - val\_accuracy: 0.8783

Epoch 276/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1313 - accuracy: 0.9758 - val\_loss: 0.8411 - val\_accuracy: 0.8750

Epoch 277/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1022 - accuracy: 0.9754 - val\_loss: 1.1486 - val\_accuracy: 0.8850

Epoch 278/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1035 - accuracy: 0.9812 - val\_loss: 1.0193 - val\_accuracy: 0.8633

Epoch 279/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1640 - accuracy: 0.9716 - val\_loss: 0.9050 - val\_accuracy: 0.8567

Epoch 280/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1035 - accuracy: 0.9750 - val\_loss: 1.0636 - val\_accuracy: 0.8783

Epoch 281/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1275 - accuracy: 0.9720 - val\_loss: 0.9167 - val\_accuracy: 0.8533

Epoch 282/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1028 - accuracy: 0.9750 - val\_loss: 1.0725 - val\_accuracy: 0.8767

Epoch 283/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0811 - accuracy: 0.9800 - val\_loss: 0.8888 - val\_accuracy: 0.8633

Epoch 284/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1058 - accuracy: 0.9808 - val\_loss: 1.2757 - val\_accuracy: 0.8617

Epoch 285/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0920 - accuracy: 0.9787 - val\_loss: 1.0173 - val\_accuracy: 0.8817

Epoch 286/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0867 - accuracy: 0.9754 - val\_loss: 1.0720 - val\_accuracy: 0.8700

Epoch 287/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0930 - accuracy: 0.9762 - val\_loss: 1.1405 - val\_accuracy: 0.8667

Epoch 288/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1160 - accuracy: 0.9704 - val\_loss: 1.0890 - val\_accuracy: 0.8650

Epoch 289/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1172 - accuracy: 0.9695 - val\_loss: 1.1927 - val\_accuracy: 0.8667

Epoch 290/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1544 - accuracy: 0.9629 - val\_loss: 0.9891 - val\_accuracy: 0.8583

Epoch 291/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0866 - accuracy: 0.9783 - val\_loss: 1.0777 - val\_accuracy: 0.8600

Epoch 292/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0631 - accuracy: 0.9829 - val\_loss: 1.0239 - val\_accuracy: 0.8750

Epoch 293/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1184 - accuracy: 0.9737 - val\_loss: 0.9549 - val\_accuracy: 0.8733

Epoch 294/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1004 - accuracy: 0.9754 - val\_loss: 1.0481 - val\_accuracy: 0.8867

Epoch 295/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1031 - accuracy: 0.9787 - val\_loss: 1.0930 - val\_accuracy: 0.8750

Epoch 296/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0379 - accuracy: 0.9875 - val\_loss: 1.2647 - val\_accuracy: 0.8800

Epoch 297/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0972 - accuracy: 0.9829 - val\_loss: 1.3246 - val\_accuracy: 0.8567

Epoch 298/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1581 - accuracy: 0.9645 - val\_loss: 1.0304 - val\_accuracy: 0.8583

Epoch 299/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1349 - accuracy: 0.9675 - val\_loss: 0.8870 - val\_accuracy: 0.8583

Epoch 300/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1342 - accuracy: 0.9658 - val\_loss: 0.9742 - val\_accuracy: 0.8717

Epoch 301/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1369 - accuracy: 0.9712 - val\_loss: 1.0592 - val\_accuracy: 0.8800

Epoch 302/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1126 - accuracy: 0.9762 - val\_loss: 1.0635 - val\_accuracy: 0.8833

Epoch 303/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0772 - accuracy: 0.9850 - val\_loss: 1.2721 - val\_accuracy: 0.8550

Epoch 304/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1409 - accuracy: 0.9700 - val\_loss: 1.1303 - val\_accuracy: 0.8800

Epoch 305/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1529 - accuracy: 0.9683 - val\_loss: 0.9509 - val\_accuracy: 0.8517

Epoch 306/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1107 - accuracy: 0.9754 - val\_loss: 0.9309 - val\_accuracy: 0.8800

Epoch 307/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1093 - accuracy: 0.9737 - val\_loss: 1.2231 - val\_accuracy: 0.8683

Epoch 308/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0893 - accuracy: 0.9771 - val\_loss: 1.1358 - val\_accuracy: 0.8767

Epoch 309/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1035 - accuracy: 0.9808 - val\_loss: 1.2178 - val\_accuracy: 0.8900

Epoch 310/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0932 - accuracy: 0.9825 - val\_loss: 1.0850 - val\_accuracy: 0.8817

Epoch 311/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0975 - accuracy: 0.9816 - val\_loss: 1.2661 - val\_accuracy: 0.8867

Epoch 312/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1577 - accuracy: 0.9658 - val\_loss: 1.1448 - val\_accuracy: 0.8583

Epoch 313/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1162 - accuracy: 0.9804 - val\_loss: 0.9333 - val\_accuracy: 0.8783

Epoch 314/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1273 - accuracy: 0.9720 - val\_loss: 1.2286 - val\_accuracy: 0.8783

Epoch 315/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1099 - accuracy: 0.9754 - val\_loss: 1.2382 - val\_accuracy: 0.8650

Epoch 316/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1023 - accuracy: 0.9779 - val\_loss: 1.2329 - val\_accuracy: 0.8700

Epoch 317/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1207 - accuracy: 0.9704 - val\_loss: 1.2599 - val\_accuracy: 0.8500

Epoch 318/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2060 - accuracy: 0.9587 - val\_loss: 1.1575 - val\_accuracy: 0.8600

Epoch 319/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1122 - accuracy: 0.9708 - val\_loss: 1.2254 - val\_accuracy: 0.8667

Epoch 320/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1815 - accuracy: 0.9629 - val\_loss: 1.0798 - val\_accuracy: 0.8633

Epoch 321/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1102 - accuracy: 0.9720 - val\_loss: 0.9265 - val\_accuracy: 0.8850

Epoch 322/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1045 - accuracy: 0.9750 - val\_loss: 0.8702 - val\_accuracy: 0.8867

Epoch 323/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0955 - accuracy: 0.9812 - val\_loss: 0.9159 - val\_accuracy: 0.8917

Epoch 324/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1164 - accuracy: 0.9737 - val\_loss: 1.1896 - val\_accuracy: 0.8817

Epoch 325/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0917 - accuracy: 0.9791 - val\_loss: 0.9963 - val\_accuracy: 0.8833

Epoch 326/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0871 - accuracy: 0.9791 - val\_loss: 1.0890 - val\_accuracy: 0.8883

Epoch 327/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1463 - accuracy: 0.9720 - val\_loss: 0.7942 - val\_accuracy: 0.8850

Epoch 328/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1398 - accuracy: 0.9720 - val\_loss: 0.9295 - val\_accuracy: 0.8633

Epoch 329/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0888 - accuracy: 0.9775 - val\_loss: 0.7505 - val\_accuracy: 0.8817

Epoch 330/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0863 - accuracy: 0.9808 - val\_loss: 1.0625 - val\_accuracy: 0.8833

Epoch 331/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1168 - accuracy: 0.9758 - val\_loss: 0.8937 - val\_accuracy: 0.8717

Epoch 332/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0980 - accuracy: 0.9829 - val\_loss: 1.1624 - val\_accuracy: 0.8567

Epoch 333/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1006 - accuracy: 0.9821 - val\_loss: 0.9484 - val\_accuracy: 0.8783

Epoch 334/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1387 - accuracy: 0.9733 - val\_loss: 1.0798 - val\_accuracy: 0.8717

Epoch 335/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1533 - accuracy: 0.9687 - val\_loss: 1.0117 - val\_accuracy: 0.8733

Epoch 336/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1420 - accuracy: 0.9675 - val\_loss: 1.1032 - val\_accuracy: 0.8717

Epoch 337/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1526 - accuracy: 0.9754 - val\_loss: 1.0003 - val\_accuracy: 0.8667

Epoch 338/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1245 - accuracy: 0.9720 - val\_loss: 0.8478 - val\_accuracy: 0.8700

Epoch 339/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1333 - accuracy: 0.9708 - val\_loss: 0.9031 - val\_accuracy: 0.8517

Epoch 340/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1200 - accuracy: 0.9675 - val\_loss: 0.8258 - val\_accuracy: 0.8733

Epoch 341/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1047 - accuracy: 0.9754 - val\_loss: 0.9944 - val\_accuracy: 0.8717

Epoch 342/450

80/80 [==============================] - 1s 13ms/step - loss: 0.1062 - accuracy: 0.9775 - val\_loss: 0.9550 - val\_accuracy: 0.8767

Epoch 343/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1052 - accuracy: 0.9754 - val\_loss: 0.9876 - val\_accuracy: 0.8717

Epoch 344/450

80/80 [==============================] - 1s 14ms/step - loss: 0.1067 - accuracy: 0.9754 - val\_loss: 1.1194 - val\_accuracy: 0.8550

Epoch 345/450

80/80 [==============================] - 1s 13ms/step - loss: 0.0744 - accuracy: 0.9804 - val\_loss: 1.1072 - val\_accuracy: 0.8600

Epoch 346/450

80/80 [==============================] - 1s 13ms/step - loss: 0.0771 - accuracy: 0.9804 - val\_loss: 1.2190 - val\_accuracy: 0.8750

Epoch 347/450

80/80 [==============================] - 1s 13ms/step - loss: 0.0544 - accuracy: 0.9904 - val\_loss: 1.4337 - val\_accuracy: 0.8717

Epoch 348/450

80/80 [==============================] - 1s 13ms/step - loss: 0.0624 - accuracy: 0.9846 - val\_loss: 1.0703 - val\_accuracy: 0.8867

Epoch 349/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0805 - accuracy: 0.9829 - val\_loss: 1.2619 - val\_accuracy: 0.8683

Epoch 350/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0908 - accuracy: 0.9829 - val\_loss: 1.2043 - val\_accuracy: 0.8717

Epoch 351/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0564 - accuracy: 0.9841 - val\_loss: 1.6392 - val\_accuracy: 0.8717

Epoch 352/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1318 - accuracy: 0.9779 - val\_loss: 1.5732 - val\_accuracy: 0.8500

Epoch 353/450

80/80 [==============================] - 1s 11ms/step - loss: 0.2066 - accuracy: 0.9616 - val\_loss: 0.8814 - val\_accuracy: 0.8733

Epoch 354/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0761 - accuracy: 0.9821 - val\_loss: 0.9319 - val\_accuracy: 0.8767

Epoch 355/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1084 - accuracy: 0.9720 - val\_loss: 0.8821 - val\_accuracy: 0.8817

Epoch 356/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1234 - accuracy: 0.9712 - val\_loss: 1.1022 - val\_accuracy: 0.8567

Epoch 357/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1746 - accuracy: 0.9650 - val\_loss: 1.0888 - val\_accuracy: 0.8500

Epoch 358/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1221 - accuracy: 0.9716 - val\_loss: 0.9693 - val\_accuracy: 0.8783

Epoch 359/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0868 - accuracy: 0.9766 - val\_loss: 1.0571 - val\_accuracy: 0.8800

Epoch 360/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0865 - accuracy: 0.9796 - val\_loss: 0.9132 - val\_accuracy: 0.8733

Epoch 361/450

80/80 [==============================] - 1s 12ms/step - loss: 0.0975 - accuracy: 0.9783 - val\_loss: 1.1027 - val\_accuracy: 0.8767

Epoch 362/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1487 - accuracy: 0.9750 - val\_loss: 0.8365 - val\_accuracy: 0.8783

Epoch 363/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1180 - accuracy: 0.9796 - val\_loss: 0.9746 - val\_accuracy: 0.8883

Epoch 364/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1148 - accuracy: 0.9741 - val\_loss: 1.0523 - val\_accuracy: 0.8950

Epoch 365/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0949 - accuracy: 0.9796 - val\_loss: 1.0426 - val\_accuracy: 0.8817

Epoch 366/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1663 - accuracy: 0.9695 - val\_loss: 1.2005 - val\_accuracy: 0.8567

Epoch 367/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1523 - accuracy: 0.9679 - val\_loss: 0.9695 - val\_accuracy: 0.8767

Epoch 368/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0768 - accuracy: 0.9771 - val\_loss: 1.5793 - val\_accuracy: 0.8717

Epoch 369/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0754 - accuracy: 0.9804 - val\_loss: 1.0561 - val\_accuracy: 0.8867

Epoch 370/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0710 - accuracy: 0.9866 - val\_loss: 1.2036 - val\_accuracy: 0.8867

Epoch 371/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0670 - accuracy: 0.9883 - val\_loss: 1.2106 - val\_accuracy: 0.8817

Epoch 372/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0832 - accuracy: 0.9833 - val\_loss: 1.2797 - val\_accuracy: 0.8900

Epoch 373/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1352 - accuracy: 0.9720 - val\_loss: 1.2413 - val\_accuracy: 0.8750

Epoch 374/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1007 - accuracy: 0.9771 - val\_loss: 1.2061 - val\_accuracy: 0.8917

Epoch 375/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1291 - accuracy: 0.9704 - val\_loss: 1.2506 - val\_accuracy: 0.8800

Epoch 376/450

80/80 [==============================] - 1s 11ms/step - loss: 0.2195 - accuracy: 0.9645 - val\_loss: 1.2348 - val\_accuracy: 0.8717

Epoch 377/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1695 - accuracy: 0.9612 - val\_loss: 1.1222 - val\_accuracy: 0.8783

Epoch 378/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1357 - accuracy: 0.9679 - val\_loss: 0.8276 - val\_accuracy: 0.8783

Epoch 379/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0804 - accuracy: 0.9779 - val\_loss: 0.8439 - val\_accuracy: 0.8867

Epoch 380/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1286 - accuracy: 0.9725 - val\_loss: 0.9507 - val\_accuracy: 0.8733

Epoch 381/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0719 - accuracy: 0.9804 - val\_loss: 1.0290 - val\_accuracy: 0.8767

Epoch 382/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0580 - accuracy: 0.9858 - val\_loss: 1.1333 - val\_accuracy: 0.8950

Epoch 383/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0780 - accuracy: 0.9871 - val\_loss: 1.0739 - val\_accuracy: 0.8867

Epoch 384/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0658 - accuracy: 0.9833 - val\_loss: 1.5468 - val\_accuracy: 0.8700

Epoch 385/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0816 - accuracy: 0.9787 - val\_loss: 1.1637 - val\_accuracy: 0.8700

Epoch 386/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1128 - accuracy: 0.9787 - val\_loss: 1.2629 - val\_accuracy: 0.8833

Epoch 387/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1527 - accuracy: 0.9695 - val\_loss: 0.9602 - val\_accuracy: 0.8817

Epoch 388/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0625 - accuracy: 0.9841 - val\_loss: 1.2306 - val\_accuracy: 0.8817

Epoch 389/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0763 - accuracy: 0.9837 - val\_loss: 1.3209 - val\_accuracy: 0.8850

Epoch 390/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0878 - accuracy: 0.9771 - val\_loss: 1.2282 - val\_accuracy: 0.8900

Epoch 391/450

80/80 [==============================] - 1s 12ms/step - loss: 0.0566 - accuracy: 0.9887 - val\_loss: 1.4529 - val\_accuracy: 0.8950

Epoch 392/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1058 - accuracy: 0.9787 - val\_loss: 1.0030 - val\_accuracy: 0.8833

Epoch 393/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0672 - accuracy: 0.9854 - val\_loss: 1.1002 - val\_accuracy: 0.8900

Epoch 394/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0691 - accuracy: 0.9821 - val\_loss: 1.1982 - val\_accuracy: 0.8883

Epoch 395/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1428 - accuracy: 0.9695 - val\_loss: 1.4548 - val\_accuracy: 0.8850

Epoch 396/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0922 - accuracy: 0.9821 - val\_loss: 1.7021 - val\_accuracy: 0.8683

Epoch 397/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0732 - accuracy: 0.9837 - val\_loss: 1.3234 - val\_accuracy: 0.8733

Epoch 398/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1796 - accuracy: 0.9687 - val\_loss: 1.0754 - val\_accuracy: 0.8717

Epoch 399/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1034 - accuracy: 0.9779 - val\_loss: 1.0589 - val\_accuracy: 0.8850

Epoch 400/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1338 - accuracy: 0.9746 - val\_loss: 1.2948 - val\_accuracy: 0.8700

Epoch 401/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0673 - accuracy: 0.9787 - val\_loss: 1.2208 - val\_accuracy: 0.8833

Epoch 402/450

80/80 [==============================] - 1s 11ms/step - loss: 0.2148 - accuracy: 0.9637 - val\_loss: 1.1729 - val\_accuracy: 0.8767

Epoch 403/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1379 - accuracy: 0.9670 - val\_loss: 1.6981 - val\_accuracy: 0.8883

Epoch 404/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0733 - accuracy: 0.9808 - val\_loss: 1.4495 - val\_accuracy: 0.8867

Epoch 405/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0880 - accuracy: 0.9787 - val\_loss: 1.3620 - val\_accuracy: 0.8917

Epoch 406/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0774 - accuracy: 0.9854 - val\_loss: 1.6898 - val\_accuracy: 0.8850

Epoch 407/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1014 - accuracy: 0.9775 - val\_loss: 1.6777 - val\_accuracy: 0.8900

Epoch 408/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1642 - accuracy: 0.9650 - val\_loss: 1.3648 - val\_accuracy: 0.8850

Epoch 409/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1589 - accuracy: 0.9675 - val\_loss: 1.5910 - val\_accuracy: 0.8900

Epoch 410/450

80/80 [==============================] - 1s 11ms/step - loss: 0.2166 - accuracy: 0.9670 - val\_loss: 1.4076 - val\_accuracy: 0.8917

Epoch 411/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1236 - accuracy: 0.9708 - val\_loss: 1.6311 - val\_accuracy: 0.8900

Epoch 412/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1048 - accuracy: 0.9779 - val\_loss: 1.3342 - val\_accuracy: 0.8833

Epoch 413/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1451 - accuracy: 0.9746 - val\_loss: 1.1625 - val\_accuracy: 0.8833

Epoch 414/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1045 - accuracy: 0.9750 - val\_loss: 1.6495 - val\_accuracy: 0.8850

Epoch 415/450

80/80 [==============================] - 1s 13ms/step - loss: 0.0792 - accuracy: 0.9833 - val\_loss: 1.1613 - val\_accuracy: 0.8767

Epoch 416/450

80/80 [==============================] - 1s 12ms/step - loss: 0.0695 - accuracy: 0.9875 - val\_loss: 1.0527 - val\_accuracy: 0.8833

Epoch 417/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1054 - accuracy: 0.9833 - val\_loss: 1.0131 - val\_accuracy: 0.8750

Epoch 418/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1007 - accuracy: 0.9779 - val\_loss: 0.9226 - val\_accuracy: 0.8767

Epoch 419/450

80/80 [==============================] - 1s 12ms/step - loss: 0.0709 - accuracy: 0.9825 - val\_loss: 1.2083 - val\_accuracy: 0.8883

Epoch 420/450

80/80 [==============================] - 1s 12ms/step - loss: 0.0866 - accuracy: 0.9837 - val\_loss: 1.1307 - val\_accuracy: 0.8817

Epoch 421/450

80/80 [==============================] - 1s 12ms/step - loss: 0.1053 - accuracy: 0.9829 - val\_loss: 1.0745 - val\_accuracy: 0.8717

Epoch 422/450

80/80 [==============================] - 1s 11ms/step - loss: 0.1298 - accuracy: 0.9712 - val\_loss: 1.0366 - val\_accuracy: 0.8867

Epoch 423/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0569 - accuracy: 0.9871 - val\_loss: 1.0537 - val\_accuracy: 0.8933

Epoch 424/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0672 - accuracy: 0.9875 - val\_loss: 0.9966 - val\_accuracy: 0.8850

Epoch 425/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0573 - accuracy: 0.9858 - val\_loss: 1.0047 - val\_accuracy: 0.8833

Epoch 426/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1132 - accuracy: 0.9800 - val\_loss: 1.2663 - val\_accuracy: 0.8783

Epoch 427/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0780 - accuracy: 0.9854 - val\_loss: 1.2106 - val\_accuracy: 0.8917

Epoch 428/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1145 - accuracy: 0.9762 - val\_loss: 1.1897 - val\_accuracy: 0.8750

Epoch 429/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0858 - accuracy: 0.9771 - val\_loss: 1.1610 - val\_accuracy: 0.8833

Epoch 430/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0831 - accuracy: 0.9816 - val\_loss: 1.0857 - val\_accuracy: 0.8917

Epoch 431/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1882 - accuracy: 0.9808 - val\_loss: 0.9042 - val\_accuracy: 0.8767

Epoch 432/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2759 - accuracy: 0.9524 - val\_loss: 0.8012 - val\_accuracy: 0.8800

Epoch 433/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1421 - accuracy: 0.9720 - val\_loss: 1.0739 - val\_accuracy: 0.8633

Epoch 434/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0987 - accuracy: 0.9800 - val\_loss: 0.8451 - val\_accuracy: 0.8867

Epoch 435/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1074 - accuracy: 0.9775 - val\_loss: 0.9991 - val\_accuracy: 0.8883

Epoch 436/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0937 - accuracy: 0.9787 - val\_loss: 0.9081 - val\_accuracy: 0.8867

Epoch 437/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0641 - accuracy: 0.9854 - val\_loss: 0.9928 - val\_accuracy: 0.8867

Epoch 438/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0698 - accuracy: 0.9841 - val\_loss: 1.1170 - val\_accuracy: 0.8867

Epoch 439/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1377 - accuracy: 0.9762 - val\_loss: 1.1834 - val\_accuracy: 0.8617

Epoch 440/450

80/80 [==============================] - 1s 10ms/step - loss: 0.1599 - accuracy: 0.9700 - val\_loss: 0.9243 - val\_accuracy: 0.8800

Epoch 441/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0870 - accuracy: 0.9787 - val\_loss: 1.3965 - val\_accuracy: 0.8800

Epoch 442/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0840 - accuracy: 0.9787 - val\_loss: 1.4992 - val\_accuracy: 0.8867

Epoch 443/450

80/80 [==============================] - 1s 11ms/step - loss: 0.0781 - accuracy: 0.9821 - val\_loss: 1.0599 - val\_accuracy: 0.8850

Epoch 444/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0599 - accuracy: 0.9850 - val\_loss: 1.4496 - val\_accuracy: 0.8767

Epoch 445/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0799 - accuracy: 0.9850 - val\_loss: 1.4803 - val\_accuracy: 0.8983

Epoch 446/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0445 - accuracy: 0.9900 - val\_loss: 1.5461 - val\_accuracy: 0.8900

Epoch 447/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0706 - accuracy: 0.9854 - val\_loss: 1.7132 - val\_accuracy: 0.8683

Epoch 448/450

80/80 [==============================] - 1s 10ms/step - loss: 0.2172 - accuracy: 0.9558 - val\_loss: 1.4015 - val\_accuracy: 0.8783

Epoch 449/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0882 - accuracy: 0.9791 - val\_loss: 1.3112 - val\_accuracy: 0.9000

Epoch 450/450

80/80 [==============================] - 1s 10ms/step - loss: 0.0820 - accuracy: 0.9775 - val\_loss: 1.5462 - val\_accuracy: 0.8900

ANN Model Saved

acc = [0.] + history.history['accuracy']

val\_acc = [0.] + history.history['val\_accuracy']

loss = history.history['loss']

val\_loss = history.history['val\_loss']

plt.figure(figsize=(8, 8))

plt.subplot(2, 1, 1)

plt.plot(acc, label='Training Accuracy')

plt.plot(val\_acc, label='Validation Accuracy')

plt.legend(loc='lower right')

plt.ylabel('Accuracy')

plt.title('Training and Validation Accuracy')

plt.subplot(2, 1, 2)

plt.plot(loss, label='Training Loss')

plt.plot(val\_loss, label='Validation Loss')

plt.legend(loc='upper right')

plt.ylabel('Cross Entropy')

plt.title('Training and Validation Loss')

plt.xlabel('epoch')

plt.show()