

# Satellite Image Classification using ANN

## Importing required libraries

```
In [ ]: import os
        from PIL import Image
        import numpy as np
        from numpy import asarray
        import matplotlib.pyplot as plt
        import cv2
        from sklearn.model_selection import train_test_split
```

```
In [ ]: cl = {"cloudy":0, "desert":1, "green_area":2, "water":3}
        x = []
        y = []
```

## Converting Image to 28x28 pixel form

```
In [ ]: cloudy = 'data/cloudy/'

for img in os.listdir(cloudy):
    img_array = cv2.imread(os.path.join(cloudy, img), cv2.IMREAD_GRAYSCALE)

    img_pil = Image.fromarray(img_array)
    img_28x28 = np.array(img_pil.resize((28, 28), Image.ANTIALIAS))

    x.append(img_28x28)
    y.append(cl["cloudy"])

desert = 'data/desert/'

for img in os.listdir(desert):
    img_array = cv2.imread(os.path.join(desert, img), cv2.IMREAD_GRAYSCALE)

    img_pil = Image.fromarray(img_array)
    img_28x28 = np.array(img_pil.resize((28, 28), Image.ANTIALIAS))

    x.append(img_28x28)
    y.append(cl["desert"])

green_area = 'data/green_area/'

for img in os.listdir(green_area):
    img_array = cv2.imread(os.path.join(green_area, img), cv2.IMREAD_GRAYSCALE)

    img_pil = Image.fromarray(img_array)
    img_28x28 = np.array(img_pil.resize((28, 28), Image.ANTIALIAS))

    x.append(img_28x28)
    y.append(cl["green_area"])

water = 'data/water/'

for img in os.listdir(water):
    img_array = cv2.imread(os.path.join(water, img), cv2.IMREAD_GRAYSCALE)

    img_pil = Image.fromarray(img_array)
    img_28x28 = np.array(img_pil.resize((28, 28), Image.ANTIALIAS))

    x.append(img_28x28)
    y.append(cl["water"])
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In [ ]: X

Out[ ]:

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```



```

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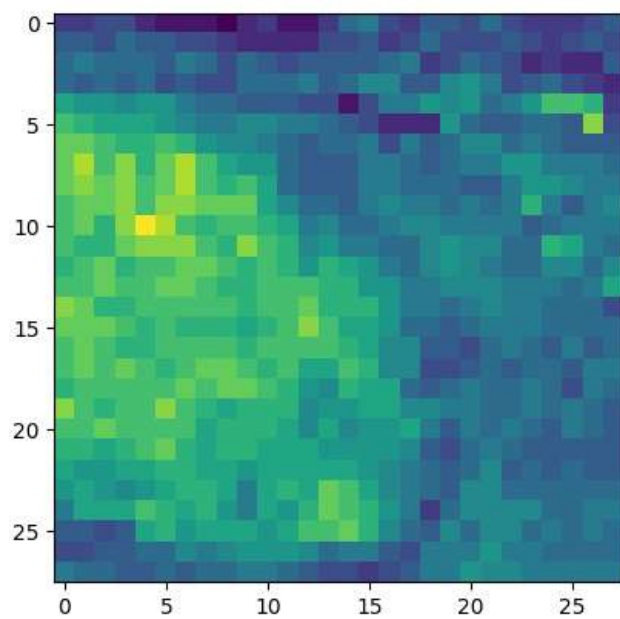
```

```

...]
```

```
In [ ]: plt.imshow(x[3000])
```

```
Out[ ]: <matplotlib.image.AxesImage at 0x2c04fc15950>
```



```
In [ ]: y[3000]
```

```
Out[ ]: 2
```

Converting array to numpy array

```
In [ ]: x = np.array(x)
        y = np.array(y)
```

```
In [ ]: x.shape
```

```
Out[ ]: (5631, 28, 28)
```

```
In [ ]: y.shape
```

```
Out[ ]: (5631,)
```

Splitting training and testing dataset

```
In [ ]: x_train,x_test,y_train,y_test = train_test_split(x,y,test_size=0.2,random_state=1)
```

Ranging the data from 0 to 1

```
In [ ]: x_train = x_train/255
        x_test = x_test/255
```

Importing ANN Libraries

```
In [ ]: import tensorflow
        from tensorflow import keras
        from keras import Sequential
        from keras.layers import Flatten, Dense
```

Creating ANN Architecture

```
In [ ]: model = Sequential()
        model.add(Flatten(input_shape=(28,28))) # converting 28x28 2d array to 784 sized 1d array
        model.add(Dense(256,activation="relu"))
        model.add(Dense(64,activation="relu"))
        model.add(Dense(16,activation="relu"))
        model.add(Dense(4,activation="softmax"))
```

```
In [ ]: model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
flatten (Flatten)	(None, 784)	0
dense (Dense)	(None, 256)	200960
dense_1 (Dense)	(None, 64)	16448
dense_2 (Dense)	(None, 16)	1040
dense_3 (Dense)	(None, 4)	68

Layer (type)	Output Shape	Param #
flatten (Flatten)	(None, 784)	0
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dense_1 (Dense)	(None, 64)	16448
dense_2 (Dense)	(None, 16)	1040
dense_3 (Dense)	(None, 4)	68

=====  
Total params: 218,516

Trainable params: 218,516  
Non-trainable params: 0

```
In [ ]: model.compile(loss='sparse_categorical_crossentropy',optimizer='Adam',metrics=['accuracy'])
```

## Traning the weights using training data

```
In [ ]: history = model.fit(x_train,y_train,epochs=400,validation_split=0.2)
```

Epoch 1/400

113/113 [=====] - 1s 7ms/step - loss: 1.2988 - accuracy: 0.2673 - val\_loss: 1.2534 - v

al accuracy: 0.3041

Epoch 2/400

113/113 [=====] - 0s 3ms/step - loss: 1.1752 - accuracy: 0.4546 - val\_loss: 1.0851 - v

al accuracy: 0.4939

Epoch 3/400

113/113 [=====] - 0s 3ms/step - loss: 0.9827 - accuracy: 0.5137 - val\_loss: 0.8642 - v

al accuracy: 0.5239

Epoch 4/400

113/113 [=====] - 0s 3ms/step - loss: 0.8302 - accuracy: 0.5498 - val\_loss: 0.9053 - v

al accuracy: 0.5294

Epoch 5/400

113/113 [=====] - 0s 3ms/step - loss: 0.7657 - accuracy: 0.5992 - val\_loss: 0.7797 - v

al accuracy: 0.5572

Epoch 6/400

113/113 [=====] - 0s 3ms/step - loss: 0.7751 - accuracy: 0.5906 - val\_loss: 0.7524 - v

al accuracy: 0.5893

Epoch 7/400

113/113 [=====] - 0s 3ms/step - loss: 0.7257 - accuracy: 0.6253 - val\_loss: 0.8590 - v

al accuracy: 0.5305

Epoch 8/400

113/113 [=====] - 0s 3ms/step - loss: 0.7921 - accuracy: 0.5762 - val\_loss: 0.7249 - v

al accuracy: 0.6138

Epoch 9/400

113/113 [=====] - 0s 4ms/step - loss: 0.7331 - accuracy: 0.6175 - val\_loss: 0.7154 - v

al accuracy: 0.6260

Epoch 10/400

113/113 [=====] - 1s 4ms/step - loss: 0.7468 - accuracy: 0.6084 - val\_loss: 0.7288 - v

al accuracy: 0.6193

Epoch 11/400

113/113 [=====] - 1s 5ms/step - loss: 0.7171 - accuracy: 0.6264 - val\_loss: 0.7169 - v

al accuracy: 0.6049

Epoch 12/400

113/113 [=====] - 0s 3ms/step - loss: 0.7013 - accuracy: 0.6298 - val\_loss: 0.8808 - v

al accuracy: 0.5305

Epoch 13/400

113/113 [=====] - 0s 4ms/step - loss: 0.6958 - accuracy: 0.6328 - val\_loss: 0.6930 - v

al accuracy: 0.6304

Epoch 14/400

113/113 [=====] - 0s 3ms/step - loss: 0.7087 - accuracy: 0.6281 - val\_loss: 0.8614 - v

al accuracy: 0.5261

Epoch 15/400

113/113 [=====] - 0s 3ms/step - loss: 0.7173 - accuracy: 0.6175 - val\_loss: 0.6968 - v  
al accuracy: 0.6249  
Epoch 16/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6988 - accuracy: 0.6317 - val\_loss: 0.7496 - v  
al accuracy: 0.5671  
Epoch 17/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6991 - accuracy: 0.6131 - val\_loss: 0.7387 - v  
al accuracy: 0.5572  
Epoch 18/400  
113/113 [=====] - 0s 4ms/step - loss: 0.6977 - accuracy: 0.6236 - val\_loss: 0.8397 - v  
al accuracy: 0.5239  
Epoch 19/400  
113/113 [=====] - 0s 4ms/step - loss: 0.6797 - accuracy: 0.6409 - val\_loss: 0.7372 - v  
al accuracy: 0.5882  
Epoch 20/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6909 - accuracy: 0.6131 - val\_loss: 0.7704 - v  
al accuracy: 0.5350  
Epoch 21/400  
113/113 [=====] - 0s 3ms/step - loss: 0.7065 - accuracy: 0.6156 - val\_loss: 0.7000 - v  
al accuracy: 0.6038  
Epoch 22/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6909 - accuracy: 0.6311 - val\_loss: 0.6773 - v  
al accuracy: 0.6238  
Epoch 23/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6803 - accuracy: 0.6289 - val\_loss: 0.7488 - v  
al accuracy: 0.6193  
Epoch 24/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6939 - accuracy: 0.6248 - val\_loss: 0.6948 - v  
al accuracy: 0.6016  
Epoch 25/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6804 - accuracy: 0.6292 - val\_loss: 0.7367 - v  
al accuracy: 0.5738  
Epoch 26/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6743 - accuracy: 0.6314 - val\_loss: 0.7300 - v  
al accuracy: 0.5782  
Epoch 27/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6724 - accuracy: 0.6411 - val\_loss: 0.6997 - v  
al accuracy: 0.6104  
Epoch 28/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6671 - accuracy: 0.6389 - val\_loss: 0.6849 - v  
al accuracy: 0.6127  
Epoch 29/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6733 - accuracy: 0.6300 - val\_loss: 0.8528 - v  
al accuracy: 0.5305  
Epoch 30/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6811 - accuracy: 0.6339 - val\_loss: 0.7186 - v  
al accuracy: 0.5971  
Epoch 31/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6816 - accuracy: 0.6284 - val\_loss: 0.6985 - v  
al accuracy: 0.6071  
Epoch 32/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6622 - accuracy: 0.6483 - val\_loss: 0.6914 - v  
al accuracy: 0.6082  
Epoch 33/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6644 - accuracy: 0.6442 - val\_loss: 0.6665 - v  
al accuracy: 0.6271  
Epoch 34/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6567 - accuracy: 0.6497 - val\_loss: 0.6747 - v  
al accuracy: 0.6138  
Epoch 35/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6523 - accuracy: 0.6478 - val\_loss: 0.6779 - v  
al accuracy: 0.5760  
Epoch 36/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6780 - accuracy: 0.6275 - val\_loss: 0.7423 - v  
al accuracy: 0.5782  
Epoch 37/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6921 - accuracy: 0.6181 - val\_loss: 0.6947 - v  
al accuracy: 0.6060  
Epoch 38/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6607 - accuracy: 0.6486 - val\_loss: 0.7238 - v  
al accuracy: 0.6049  
Epoch 39/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6696 - accuracy: 0.6370 - val\_loss: 0.7003 - v  
al accuracy: 0.5960  
Epoch 40/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6478 - accuracy: 0.6608 - val\_loss: 0.6875 - v  
al accuracy: 0.6071  
Epoch 41/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6656 - accuracy: 0.6470 - val\_loss: 0.6607 - v  
al accuracy: 0.6182  
Epoch 42/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6584 - accuracy: 0.6381 - val\_loss: 0.7038 - v  
al accuracy: 0.6182

Epoch 43/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6627 - accuracy: 0.6420 - val\_loss: 0.7255 - val\_accuracy: 0.6038

Epoch 44/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6462 - accuracy: 0.6539 - val\_loss: 0.6800 - val\_accuracy: 0.6004

Epoch 45/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6583 - accuracy: 0.6483 - val\_loss: 0.7062 - val\_accuracy: 0.5916

Epoch 46/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6473 - accuracy: 0.6481 - val\_loss: 0.6578 - val\_accuracy: 0.6160

Epoch 47/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6344 - accuracy: 0.6586 - val\_loss: 0.6485 - val\_accuracy: 0.6870

Epoch 48/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6379 - accuracy: 0.6600 - val\_loss: 0.6631 - val\_accuracy: 0.6171

Epoch 49/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6243 - accuracy: 0.6583 - val\_loss: 0.6389 - val\_accuracy: 0.6781

Epoch 50/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6517 - accuracy: 0.6420 - val\_loss: 0.6723 - val\_accuracy: 0.6093

Epoch 51/400  
113/113 [=====] - 0s 4ms/step - loss: 0.6415 - accuracy: 0.6475 - val\_loss: 0.6718 - val\_accuracy: 0.6193

Epoch 52/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6431 - accuracy: 0.6531 - val\_loss: 0.6756 - val\_accuracy: 0.6127

Epoch 53/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6441 - accuracy: 0.6561 - val\_loss: 0.6475 - val\_accuracy: 0.6681

Epoch 54/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6164 - accuracy: 0.6733 - val\_loss: 0.6471 - val\_accuracy: 0.6160

Epoch 55/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6344 - accuracy: 0.6589 - val\_loss: 0.6553 - val\_accuracy: 0.6171

Epoch 56/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6476 - accuracy: 0.6464 - val\_loss: 0.6587 - val\_accuracy: 0.6637

Epoch 57/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6222 - accuracy: 0.6636 - val\_loss: 0.6599 - val\_accuracy: 0.5782

Epoch 58/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6271 - accuracy: 0.6600 - val\_loss: 0.6774 - val\_accuracy: 0.6193

Epoch 59/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6271 - accuracy: 0.6578 - val\_loss: 0.6573 - val\_accuracy: 0.6537

Epoch 60/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6120 - accuracy: 0.6742 - val\_loss: 0.6465 - val\_accuracy: 0.5827

Epoch 61/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6111 - accuracy: 0.6941 - val\_loss: 0.6217 - val\_accuracy: 0.6981

Epoch 62/400  
113/113 [=====] - 1s 5ms/step - loss: 0.6209 - accuracy: 0.6600 - val\_loss: 0.6295 - val\_accuracy: 0.6937

Epoch 63/400  
113/113 [=====] - 0s 4ms/step - loss: 0.6025 - accuracy: 0.6891 - val\_loss: 0.7681 - val\_accuracy: 0.5916

Epoch 64/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6161 - accuracy: 0.6764 - val\_loss: 0.6603 - val\_accuracy: 0.6171

Epoch 65/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6141 - accuracy: 0.6669 - val\_loss: 0.6176 - val\_accuracy: 0.7003

Epoch 66/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6188 - accuracy: 0.6578 - val\_loss: 0.7206 - val\_accuracy: 0.5649

Epoch 67/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6184 - accuracy: 0.6581 - val\_loss: 0.6535 - val\_accuracy: 0.6038

Epoch 68/400  
113/113 [=====] - 1s 5ms/step - loss: 0.6199 - accuracy: 0.6694 - val\_loss: 0.6216 - val\_accuracy: 0.6604

Epoch 69/400  
113/113 [=====] - 1s 5ms/step - loss: 0.6109 - accuracy: 0.6830 - val\_loss: 0.6331 - val\_accuracy: 0.6604

Epoch 70/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6141 - accuracy: 0.6825 - val\_loss: 0.6361 - val\_accuracy: 0.6604

al\_accuracy: 0.6282  
Epoch 71/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6148 - accuracy: 0.6789 - val\_loss: 0.6682 - v  
al\_accuracy: 0.6027  
Epoch 72/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6082 - accuracy: 0.6789 - val\_loss: 0.6376 - v  
al\_accuracy: 0.6271  
Epoch 73/400  
113/113 [=====] - 0s 4ms/step - loss: 0.6244 - accuracy: 0.6564 - val\_loss: 0.7054 - v  
al\_accuracy: 0.6382  
Epoch 74/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6256 - accuracy: 0.6647 - val\_loss: 0.6402 - v  
al\_accuracy: 0.6415  
Epoch 75/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6246 - accuracy: 0.6606 - val\_loss: 0.6379 - v  
al\_accuracy: 0.6792  
Epoch 76/400  
113/113 [=====] - 1s 4ms/step - loss: 0.6005 - accuracy: 0.6966 - val\_loss: 0.6101 - v  
al\_accuracy: 0.6937  
Epoch 77/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5972 - accuracy: 0.6922 - val\_loss: 0.6060 - v  
al\_accuracy: 0.6981  
Epoch 78/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5995 - accuracy: 0.6872 - val\_loss: 0.6395 - v  
al\_accuracy: 0.6459  
Epoch 79/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6035 - accuracy: 0.6805 - val\_loss: 0.6650 - v  
al\_accuracy: 0.5716  
Epoch 80/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5963 - accuracy: 0.6955 - val\_loss: 0.6026 - v  
al\_accuracy: 0.7125  
Epoch 81/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5930 - accuracy: 0.6961 - val\_loss: 0.6115 - v  
al\_accuracy: 0.6915  
Epoch 82/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5904 - accuracy: 0.7019 - val\_loss: 0.6326 - v  
al\_accuracy: 0.6681  
Epoch 83/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6032 - accuracy: 0.6850 - val\_loss: 0.6111 - v  
al\_accuracy: 0.6937  
Epoch 84/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5926 - accuracy: 0.6928 - val\_loss: 0.6089 - v  
al\_accuracy: 0.6937  
Epoch 85/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5866 - accuracy: 0.7069 - val\_loss: 0.6169 - v  
al\_accuracy: 0.6537  
Epoch 86/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5842 - accuracy: 0.6955 - val\_loss: 0.6170 - v  
al\_accuracy: 0.6959  
Epoch 87/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5816 - accuracy: 0.7019 - val\_loss: 0.7206 - v  
al\_accuracy: 0.6016  
Epoch 88/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6067 - accuracy: 0.6747 - val\_loss: 0.6057 - v  
al\_accuracy: 0.6815  
Epoch 89/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5865 - accuracy: 0.6975 - val\_loss: 0.6324 - v  
al\_accuracy: 0.6426  
Epoch 90/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5868 - accuracy: 0.7008 - val\_loss: 0.6172 - v  
al\_accuracy: 0.6537  
Epoch 91/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5849 - accuracy: 0.7041 - val\_loss: 0.5982 - v  
al\_accuracy: 0.7003  
Epoch 92/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5990 - accuracy: 0.6891 - val\_loss: 0.6262 - v  
al\_accuracy: 0.6304  
Epoch 93/400  
113/113 [=====] - 0s 4ms/step - loss: 0.6019 - accuracy: 0.6814 - val\_loss: 0.6262 - v  
al\_accuracy: 0.6360  
Epoch 94/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5845 - accuracy: 0.7077 - val\_loss: 0.6250 - v  
al\_accuracy: 0.6781  
Epoch 95/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5785 - accuracy: 0.7052 - val\_loss: 0.6606 - v  
al\_accuracy: 0.6337  
Epoch 96/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5845 - accuracy: 0.6925 - val\_loss: 0.6380 - v  
al\_accuracy: 0.6792  
Epoch 97/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5867 - accuracy: 0.6944 - val\_loss: 0.5930 - v  
al\_accuracy: 0.6981  
Epoch 98/400

113/113 [=====] - 0s 3ms/step - loss: 0.5906 - accuracy: 0.6911 - val\_loss: 0.6211 - v  
al\_accuracy: 0.6593  
Epoch 99/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5794 - accuracy: 0.7036 - val\_loss: 0.6145 - v  
al\_accuracy: 0.6704  
Epoch 100/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5850 - accuracy: 0.6994 - val\_loss: 0.6200 - v  
al\_accuracy: 0.6770  
Epoch 101/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5789 - accuracy: 0.6908 - val\_loss: 0.5871 - v  
al\_accuracy: 0.7114  
Epoch 102/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5807 - accuracy: 0.6889 - val\_loss: 0.6006 - v  
al\_accuracy: 0.7292  
Epoch 103/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5891 - accuracy: 0.6939 - val\_loss: 0.5990 - v  
al\_accuracy: 0.6959  
Epoch 104/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6026 - accuracy: 0.6803 - val\_loss: 0.5900 - v  
al\_accuracy: 0.7125  
Epoch 105/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5700 - accuracy: 0.7155 - val\_loss: 0.5979 - v  
al\_accuracy: 0.6959  
Epoch 106/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5805 - accuracy: 0.6986 - val\_loss: 0.6606 - v  
al\_accuracy: 0.6459  
Epoch 107/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5846 - accuracy: 0.6972 - val\_loss: 0.7325 - v  
al\_accuracy: 0.6060  
Epoch 108/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5808 - accuracy: 0.7111 - val\_loss: 0.5791 - v  
al\_accuracy: 0.7026  
Epoch 109/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5775 - accuracy: 0.7014 - val\_loss: 0.6033 - v  
al\_accuracy: 0.6959  
Epoch 110/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5793 - accuracy: 0.7005 - val\_loss: 0.6153 - v  
al\_accuracy: 0.6593  
Epoch 111/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5818 - accuracy: 0.7005 - val\_loss: 0.6155 - v  
al\_accuracy: 0.7081  
Epoch 112/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5893 - accuracy: 0.7089 - val\_loss: 0.5922 - v  
al\_accuracy: 0.7026  
Epoch 113/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6038 - accuracy: 0.6872 - val\_loss: 0.6199 - v  
al\_accuracy: 0.7159  
Epoch 114/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5793 - accuracy: 0.7114 - val\_loss: 0.5867 - v  
al\_accuracy: 0.7148  
Epoch 115/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5716 - accuracy: 0.7100 - val\_loss: 0.6303 - v  
al\_accuracy: 0.6837  
Epoch 116/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5742 - accuracy: 0.7155 - val\_loss: 0.6257 - v  
al\_accuracy: 0.6604  
Epoch 117/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5797 - accuracy: 0.7030 - val\_loss: 0.6064 - v  
al\_accuracy: 0.6715  
Epoch 118/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5638 - accuracy: 0.7202 - val\_loss: 0.6052 - v  
al\_accuracy: 0.6903  
Epoch 119/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5645 - accuracy: 0.7202 - val\_loss: 0.6124 - v  
al\_accuracy: 0.6770  
Epoch 120/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5844 - accuracy: 0.6983 - val\_loss: 0.5703 - v  
al\_accuracy: 0.7248  
Epoch 121/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5733 - accuracy: 0.7163 - val\_loss: 0.5950 - v  
al\_accuracy: 0.7003  
Epoch 122/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5684 - accuracy: 0.7216 - val\_loss: 0.6082 - v  
al\_accuracy: 0.6981  
Epoch 123/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5777 - accuracy: 0.7138 - val\_loss: 0.7382 - v  
al\_accuracy: 0.5616  
Epoch 124/400  
113/113 [=====] - 0s 3ms/step - loss: 0.6123 - accuracy: 0.6744 - val\_loss: 0.6246 - v  
al\_accuracy: 0.6770  
Epoch 125/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5913 - accuracy: 0.6953 - val\_loss: 0.5942 - v  
al\_accuracy: 0.7248

Epoch 126/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5648 - accuracy: 0.7211 - val\_loss: 0.5939 - v  
al accuracy: 0.6937  
Epoch 127/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5714 - accuracy: 0.7147 - val\_loss: 0.7057 - v  
al accuracy: 0.6038  
Epoch 128/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5697 - accuracy: 0.7102 - val\_loss: 0.6002 - v  
al accuracy: 0.7125  
Epoch 129/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5587 - accuracy: 0.7200 - val\_loss: 0.5744 - v  
al accuracy: 0.7092  
Epoch 130/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5953 - accuracy: 0.6933 - val\_loss: 0.6441 - v  
al accuracy: 0.6726  
Epoch 131/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5829 - accuracy: 0.7058 - val\_loss: 0.5922 - v  
al accuracy: 0.7026  
Epoch 132/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5789 - accuracy: 0.7027 - val\_loss: 0.6002 - v  
al accuracy: 0.6837  
Epoch 133/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5851 - accuracy: 0.6997 - val\_loss: 0.5980 - v  
al accuracy: 0.6870  
Epoch 134/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5625 - accuracy: 0.7172 - val\_loss: 0.5873 - v  
al accuracy: 0.6970  
Epoch 135/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5722 - accuracy: 0.7075 - val\_loss: 0.7040 - v  
al accuracy: 0.6127  
Epoch 136/400  
113/113 [=====] - 1s 5ms/step - loss: 0.5757 - accuracy: 0.7055 - val\_loss: 0.5845 - v  
al accuracy: 0.7203  
Epoch 137/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5652 - accuracy: 0.7102 - val\_loss: 0.5754 - v  
al accuracy: 0.7048  
Epoch 138/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5728 - accuracy: 0.7047 - val\_loss: 0.5882 - v  
al accuracy: 0.6737  
Epoch 139/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5568 - accuracy: 0.7175 - val\_loss: 0.5796 - v  
al accuracy: 0.7037  
Epoch 140/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5706 - accuracy: 0.7036 - val\_loss: 0.5987 - v  
al accuracy: 0.6781  
Epoch 141/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5608 - accuracy: 0.7130 - val\_loss: 0.5763 - v  
al accuracy: 0.7103  
Epoch 142/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5614 - accuracy: 0.7169 - val\_loss: 0.5975 - v  
al accuracy: 0.6848  
Epoch 143/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5725 - accuracy: 0.7030 - val\_loss: 0.6564 - v  
al accuracy: 0.6271  
Epoch 144/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5655 - accuracy: 0.7075 - val\_loss: 0.6048 - v  
al accuracy: 0.6915  
Epoch 145/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5665 - accuracy: 0.7233 - val\_loss: 0.6109 - v  
al accuracy: 0.6937  
Epoch 146/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5607 - accuracy: 0.7191 - val\_loss: 0.6183 - v  
al accuracy: 0.6637  
Epoch 147/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5636 - accuracy: 0.7166 - val\_loss: 0.6212 - v  
al accuracy: 0.6737  
Epoch 148/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5583 - accuracy: 0.7208 - val\_loss: 0.5844 - v  
al accuracy: 0.7203  
Epoch 149/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5557 - accuracy: 0.7166 - val\_loss: 0.5904 - v  
al accuracy: 0.6804  
Epoch 150/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5752 - accuracy: 0.7027 - val\_loss: 0.5820 - v  
al accuracy: 0.6892  
Epoch 151/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5670 - accuracy: 0.7141 - val\_loss: 0.6141 - v  
al accuracy: 0.6537  
Epoch 152/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5603 - accuracy: 0.7194 - val\_loss: 0.6137 - v  
al accuracy: 0.6815  
Epoch 153/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5908 - accuracy: 0.6975 - val\_loss: 0.5749 - v



al\_accuracy: 0.7225  
Epoch 154/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5672 - accuracy: 0.7150 - val\_loss: 0.6146 - v  
al\_accuracy: 0.6726  
Epoch 155/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5502 - accuracy: 0.7269 - val\_loss: 0.5879 - v  
al\_accuracy: 0.6915  
Epoch 156/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5616 - accuracy: 0.7150 - val\_loss: 0.5958 - v  
al\_accuracy: 0.6915  
Epoch 157/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5613 - accuracy: 0.7188 - val\_loss: 0.5814 - v  
al\_accuracy: 0.7059  
Epoch 158/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5603 - accuracy: 0.7280 - val\_loss: 0.5928 - v  
al\_accuracy: 0.7081  
Epoch 159/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5568 - accuracy: 0.7277 - val\_loss: 0.5831 - v  
al\_accuracy: 0.6926  
Epoch 160/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5607 - accuracy: 0.7205 - val\_loss: 0.5979 - v  
al\_accuracy: 0.6726  
Epoch 161/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5533 - accuracy: 0.7238 - val\_loss: 0.5713 - v  
al\_accuracy: 0.7181  
Epoch 162/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5561 - accuracy: 0.7194 - val\_loss: 0.6207 - v  
al\_accuracy: 0.7003  
Epoch 163/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5587 - accuracy: 0.7208 - val\_loss: 0.5689 - v  
al\_accuracy: 0.7070  
Epoch 164/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5724 - accuracy: 0.7058 - val\_loss: 0.6248 - v  
al\_accuracy: 0.6715  
Epoch 165/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5700 - accuracy: 0.7102 - val\_loss: 0.5939 - v  
al\_accuracy: 0.6870  
Epoch 166/400  
113/113 [=====] - 0s 4ms/step - loss: 0.5473 - accuracy: 0.7316 - val\_loss: 0.5797 - v  
al\_accuracy: 0.7037  
Epoch 167/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5571 - accuracy: 0.7219 - val\_loss: 0.5950 - v  
al\_accuracy: 0.6870  
Epoch 168/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5610 - accuracy: 0.7136 - val\_loss: 0.6025 - v  
al\_accuracy: 0.7037  
Epoch 169/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5633 - accuracy: 0.7083 - val\_loss: 0.5800 - v  
al\_accuracy: 0.6992  
Epoch 170/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5683 - accuracy: 0.7102 - val\_loss: 0.5814 - v  
al\_accuracy: 0.7070  
Epoch 171/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5690 - accuracy: 0.7136 - val\_loss: 0.5772 - v  
al\_accuracy: 0.6992  
Epoch 172/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5619 - accuracy: 0.7138 - val\_loss: 0.6575 - v  
al\_accuracy: 0.6670  
Epoch 173/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5630 - accuracy: 0.7177 - val\_loss: 0.6038 - v  
al\_accuracy: 0.6570  
Epoch 174/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5646 - accuracy: 0.7105 - val\_loss: 0.6052 - v  
al\_accuracy: 0.6837  
Epoch 175/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5474 - accuracy: 0.7244 - val\_loss: 0.5774 - v  
al\_accuracy: 0.6992  
Epoch 176/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5565 - accuracy: 0.7238 - val\_loss: 0.5775 - v  
al\_accuracy: 0.7159  
Epoch 177/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5655 - accuracy: 0.7050 - val\_loss: 0.5885 - v  
al\_accuracy: 0.7048  
Epoch 178/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5560 - accuracy: 0.7208 - val\_loss: 0.5933 - v  
al\_accuracy: 0.6870  
Epoch 179/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5594 - accuracy: 0.7169 - val\_loss: 0.5805 - v  
al\_accuracy: 0.6981  
Epoch 180/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5501 - accuracy: 0.7230 - val\_loss: 0.5821 - v  
al\_accuracy: 0.7037  
Epoch 181/400

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113/113 [=====] - 0s 3ms/step - loss: 0.5460 - accuracy: 0.7316 - val_loss: 0.5687 - v
al_accuracy: 0.7248
Epoch 182/400
113/113 [=====] - 0s 3ms/step - loss: 0.5451 - accuracy: 0.7302 - val_loss: 0.5951 - v
al_accuracy: 0.7137
Epoch 183/400
113/113 [=====] - 0s 3ms/step - loss: 0.5534 - accuracy: 0.7175 - val_loss: 0.6001 - v
al_accuracy: 0.7070
Epoch 184/400
113/113 [=====] - 0s 3ms/step - loss: 0.5564 - accuracy: 0.7225 - val_loss: 0.5880 - v
al_accuracy: 0.7203
Epoch 185/400
113/113 [=====] - 0s 3ms/step - loss: 0.5431 - accuracy: 0.7291 - val_loss: 0.6626 - v
al_accuracy: 0.6459
Epoch 186/400
113/113 [=====] - 0s 3ms/step - loss: 0.5626 - accuracy: 0.7194 - val_loss: 0.5705 - v
al_accuracy: 0.7014
Epoch 187/400
113/113 [=====] - 0s 3ms/step - loss: 0.5612 - accuracy: 0.7233 - val_loss: 0.5979 - v
al_accuracy: 0.6992
Epoch 188/400
113/113 [=====] - 0s 3ms/step - loss: 0.5483 - accuracy: 0.7255 - val_loss: 0.5710 - v
al_accuracy: 0.7070
Epoch 189/400
113/113 [=====] - 0s 3ms/step - loss: 0.5542 - accuracy: 0.7241 - val_loss: 0.5745 - v
al_accuracy: 0.7026
Epoch 190/400
113/113 [=====] - 0s 3ms/step - loss: 0.5630 - accuracy: 0.7114 - val_loss: 0.5807 - v
al_accuracy: 0.7137
Epoch 191/400
113/113 [=====] - 0s 3ms/step - loss: 0.5481 - accuracy: 0.7280 - val_loss: 0.5753 - v
al_accuracy: 0.7259
Epoch 192/400
113/113 [=====] - 0s 3ms/step - loss: 0.5459 - accuracy: 0.7272 - val_loss: 0.5821 - v
al_accuracy: 0.6926
Epoch 193/400
113/113 [=====] - 0s 3ms/step - loss: 0.5549 - accuracy: 0.7191 - val_loss: 0.5809 - v
al_accuracy: 0.7270
Epoch 194/400
113/113 [=====] - 0s 3ms/step - loss: 0.5528 - accuracy: 0.7127 - val_loss: 0.5690 - v
al_accuracy: 0.7203
Epoch 195/400
113/113 [=====] - 0s 3ms/step - loss: 0.5441 - accuracy: 0.7297 - val_loss: 0.5743 - v
al_accuracy: 0.7037
Epoch 196/400
113/113 [=====] - 0s 3ms/step - loss: 0.5529 - accuracy: 0.7183 - val_loss: 0.5636 - v
al_accuracy: 0.7081
Epoch 197/400
113/113 [=====] - 0s 3ms/step - loss: 0.5573 - accuracy: 0.7227 - val_loss: 0.6116 - v
al_accuracy: 0.7114
Epoch 198/400
113/113 [=====] - 0s 3ms/step - loss: 0.5571 - accuracy: 0.7216 - val_loss: 0.5965 - v
al_accuracy: 0.6970
Epoch 199/400
113/113 [=====] - 0s 3ms/step - loss: 0.5475 - accuracy: 0.7263 - val_loss: 0.5711 - v
al_accuracy: 0.7159
Epoch 200/400
113/113 [=====] - 0s 3ms/step - loss: 0.5547 - accuracy: 0.7150 - val_loss: 0.5849 - v
al_accuracy: 0.7270
Epoch 201/400
113/113 [=====] - 0s 3ms/step - loss: 0.5608 - accuracy: 0.7133 - val_loss: 0.6038 - v
al_accuracy: 0.6892
Epoch 202/400
113/113 [=====] - 0s 3ms/step - loss: 0.5545 - accuracy: 0.7269 - val_loss: 0.5995 - v
al_accuracy: 0.6748
Epoch 203/400
113/113 [=====] - 0s 3ms/step - loss: 0.5470 - accuracy: 0.7244 - val_loss: 0.5678 - v
al_accuracy: 0.7103
Epoch 204/400
113/113 [=====] - 0s 3ms/step - loss: 0.5480 - accuracy: 0.7288 - val_loss: 0.5931 - v
al_accuracy: 0.7148
Epoch 205/400
113/113 [=====] - 0s 3ms/step - loss: 0.5457 - accuracy: 0.7308 - val_loss: 0.5741 - v
al_accuracy: 0.6926
Epoch 206/400
113/113 [=====] - 0s 3ms/step - loss: 0.5454 - accuracy: 0.7197 - val_loss: 0.5961 - v
al_accuracy: 0.6881
Epoch 207/400
113/113 [=====] - 0s 3ms/step - loss: 0.5487 - accuracy: 0.7255 - val_loss: 0.5868 - v
al_accuracy: 0.7059
Epoch 208/400
113/113 [=====] - 0s 3ms/step - loss: 0.5568 - accuracy: 0.7141 - val_loss: 0.6126 - v
al_accuracy: 0.6870
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Epoch 209/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5446 - accuracy: 0.7266 - val\_loss: 0.5729 - val\_accuracy: 0.7037  
Epoch 210/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5436 - accuracy: 0.7294 - val\_loss: 0.6113 - val\_accuracy: 0.6604  
Epoch 211/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5556 - accuracy: 0.7227 - val\_loss: 0.6185 - val\_accuracy: 0.6781  
Epoch 212/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5531 - accuracy: 0.7255 - val\_loss: 0.5671 - val\_accuracy: 0.7137  
Epoch 213/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5515 - accuracy: 0.7280 - val\_loss: 0.5880 - val\_accuracy: 0.7259  
Epoch 214/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5444 - accuracy: 0.7333 - val\_loss: 0.6188 - val\_accuracy: 0.6582  
Epoch 215/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5515 - accuracy: 0.7241 - val\_loss: 0.6535 - val\_accuracy: 0.6371  
Epoch 216/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5453 - accuracy: 0.7238 - val\_loss: 0.5720 - val\_accuracy: 0.7159  
Epoch 217/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5423 - accuracy: 0.7286 - val\_loss: 0.5626 - val\_accuracy: 0.7192  
Epoch 218/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5412 - accuracy: 0.7291 - val\_loss: 0.5683 - val\_accuracy: 0.7259  
Epoch 219/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5414 - accuracy: 0.7286 - val\_loss: 0.5717 - val\_accuracy: 0.7259  
Epoch 220/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5487 - accuracy: 0.7316 - val\_loss: 0.5951 - val\_accuracy: 0.6781  
Epoch 221/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5418 - accuracy: 0.7341 - val\_loss: 0.5847 - val\_accuracy: 0.6992  
Epoch 222/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5502 - accuracy: 0.7166 - val\_loss: 0.5843 - val\_accuracy: 0.6948  
Epoch 223/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5422 - accuracy: 0.7361 - val\_loss: 0.5808 - val\_accuracy: 0.7003  
Epoch 224/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5409 - accuracy: 0.7274 - val\_loss: 0.5818 - val\_accuracy: 0.7148  
Epoch 225/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5608 - accuracy: 0.7161 - val\_loss: 0.5998 - val\_accuracy: 0.7092  
Epoch 226/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5480 - accuracy: 0.7272 - val\_loss: 0.5908 - val\_accuracy: 0.6715  
Epoch 227/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5522 - accuracy: 0.7155 - val\_loss: 0.5879 - val\_accuracy: 0.7048  
Epoch 228/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5422 - accuracy: 0.7255 - val\_loss: 0.5695 - val\_accuracy: 0.7203  
Epoch 229/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5473 - accuracy: 0.7208 - val\_loss: 0.5815 - val\_accuracy: 0.7103  
Epoch 230/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5434 - accuracy: 0.7225 - val\_loss: 0.5692 - val\_accuracy: 0.7181  
Epoch 231/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5491 - accuracy: 0.7288 - val\_loss: 0.5726 - val\_accuracy: 0.7026  
Epoch 232/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5422 - accuracy: 0.7252 - val\_loss: 0.5918 - val\_accuracy: 0.6981  
Epoch 233/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5353 - accuracy: 0.7322 - val\_loss: 0.6006 - val\_accuracy: 0.6948  
Epoch 234/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5622 - accuracy: 0.7175 - val\_loss: 0.5813 - val\_accuracy: 0.7192  
Epoch 235/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5396 - accuracy: 0.7388 - val\_loss: 0.5733 - val\_accuracy: 0.7281  
Epoch 236/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5491 - accuracy: 0.7230 - val\_loss: 0.5778 - val\_accuracy: 0.7192

```
al_accuracy: 0.6959
Epoch 237/400
113/113 [=====] - 0s 3ms/step - loss: 0.5450 - accuracy: 0.7272 - val_loss: 0.5781 - v
al_accuracy: 0.7236
Epoch 238/400
113/113 [=====] - 0s 3ms/step - loss: 0.5550 - accuracy: 0.7258 - val_loss: 0.6158 - v
al_accuracy: 0.6737
Epoch 239/400
113/113 [=====] - 0s 3ms/step - loss: 0.5485 - accuracy: 0.7250 - val_loss: 0.5854 - v
al_accuracy: 0.6959
Epoch 240/400
113/113 [=====] - 0s 3ms/step - loss: 0.5549 - accuracy: 0.7197 - val_loss: 0.6013 - v
al_accuracy: 0.7137
Epoch 241/400
113/113 [=====] - 0s 3ms/step - loss: 0.5402 - accuracy: 0.7313 - val_loss: 0.5754 - v
al_accuracy: 0.7026
Epoch 242/400
113/113 [=====] - 0s 3ms/step - loss: 0.5595 - accuracy: 0.7200 - val_loss: 0.5709 - v
al_accuracy: 0.7048
Epoch 243/400
113/113 [=====] - 0s 3ms/step - loss: 0.5405 - accuracy: 0.7374 - val_loss: 0.5857 - v
al_accuracy: 0.7003
Epoch 244/400
113/113 [=====] - 0s 3ms/step - loss: 0.5409 - accuracy: 0.7288 - val_loss: 0.5829 - v
al_accuracy: 0.7159
Epoch 245/400
113/113 [=====] - 0s 3ms/step - loss: 0.5542 - accuracy: 0.7219 - val_loss: 0.6417 - v
al_accuracy: 0.6582
Epoch 246/400
113/113 [=====] - 0s 3ms/step - loss: 0.5388 - accuracy: 0.7363 - val_loss: 0.5793 - v
al_accuracy: 0.6970
Epoch 247/400
113/113 [=====] - 0s 3ms/step - loss: 0.5426 - accuracy: 0.7272 - val_loss: 0.5894 - v
al_accuracy: 0.7048
Epoch 248/400
113/113 [=====] - 0s 3ms/step - loss: 0.5334 - accuracy: 0.7399 - val_loss: 0.5640 - v
al_accuracy: 0.7103
Epoch 249/400
113/113 [=====] - 0s 3ms/step - loss: 0.5415 - accuracy: 0.7347 - val_loss: 0.6770 - v
al_accuracy: 0.6304
Epoch 250/400
113/113 [=====] - 0s 3ms/step - loss: 0.5490 - accuracy: 0.7305 - val_loss: 0.5702 - v
al_accuracy: 0.7292
Epoch 251/400
113/113 [=====] - 0s 3ms/step - loss: 0.5407 - accuracy: 0.7247 - val_loss: 0.5723 - v
al_accuracy: 0.7048
Epoch 252/400
113/113 [=====] - 0s 3ms/step - loss: 0.5442 - accuracy: 0.7349 - val_loss: 0.5732 - v
al_accuracy: 0.6992
Epoch 253/400
113/113 [=====] - 0s 3ms/step - loss: 0.5438 - accuracy: 0.7313 - val_loss: 0.5595 - v
al_accuracy: 0.7137
Epoch 254/400
113/113 [=====] - 0s 3ms/step - loss: 0.5443 - accuracy: 0.7297 - val_loss: 0.6015 - v
al_accuracy: 0.6826
Epoch 255/400
113/113 [=====] - 0s 3ms/step - loss: 0.5533 - accuracy: 0.7205 - val_loss: 0.6259 - v
al_accuracy: 0.6515
Epoch 256/400
113/113 [=====] - 0s 3ms/step - loss: 0.5439 - accuracy: 0.7322 - val_loss: 0.5824 - v
al_accuracy: 0.7014
Epoch 257/400
113/113 [=====] - 0s 3ms/step - loss: 0.5348 - accuracy: 0.7383 - val_loss: 0.5786 - v
al_accuracy: 0.6981
Epoch 258/400
113/113 [=====] - 0s 3ms/step - loss: 0.5477 - accuracy: 0.7216 - val_loss: 0.5788 - v
al_accuracy: 0.7325
Epoch 259/400
113/113 [=====] - 0s 3ms/step - loss: 0.5347 - accuracy: 0.7391 - val_loss: 0.5665 - v
al_accuracy: 0.7181
Epoch 260/400
113/113 [=====] - 0s 3ms/step - loss: 0.5426 - accuracy: 0.7352 - val_loss: 0.5655 - v
al_accuracy: 0.7148
Epoch 261/400
113/113 [=====] - 0s 3ms/step - loss: 0.5306 - accuracy: 0.7391 - val_loss: 0.5694 - v
al_accuracy: 0.7270
Epoch 262/400
113/113 [=====] - 0s 3ms/step - loss: 0.5322 - accuracy: 0.7366 - val_loss: 0.5777 - v
al_accuracy: 0.7081
Epoch 263/400
113/113 [=====] - 0s 3ms/step - loss: 0.5322 - accuracy: 0.7408 - val_loss: 0.5721 - v
al_accuracy: 0.7048
Epoch 264/400
```

113/113 [=====] - 0s 3ms/step - loss: 0.5342 - accuracy: 0.7430 - val\_loss: 0.5697 - v  
al\_accuracy: 0.7048  
Epoch 265/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5420 - accuracy: 0.7274 - val\_loss: 0.5884 - v  
al\_accuracy: 0.7192  
Epoch 266/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5383 - accuracy: 0.7388 - val\_loss: 0.6046 - v  
al\_accuracy: 0.6826  
Epoch 267/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5287 - accuracy: 0.7402 - val\_loss: 0.5610 - v  
al\_accuracy: 0.7192  
Epoch 268/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5422 - accuracy: 0.7316 - val\_loss: 0.5577 - v  
al\_accuracy: 0.7225  
Epoch 269/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5377 - accuracy: 0.7377 - val\_loss: 0.5781 - v  
al\_accuracy: 0.7081  
Epoch 270/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5413 - accuracy: 0.7288 - val\_loss: 0.5913 - v  
al\_accuracy: 0.6726  
Epoch 271/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5285 - accuracy: 0.7363 - val\_loss: 0.5899 - v  
al\_accuracy: 0.7225  
Epoch 272/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5335 - accuracy: 0.7374 - val\_loss: 0.6201 - v  
al\_accuracy: 0.6881  
Epoch 273/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5325 - accuracy: 0.7397 - val\_loss: 0.5887 - v  
al\_accuracy: 0.7148  
Epoch 274/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5292 - accuracy: 0.7458 - val\_loss: 0.5595 - v  
al\_accuracy: 0.7236  
Epoch 275/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5455 - accuracy: 0.7383 - val\_loss: 0.5782 - v  
al\_accuracy: 0.7092  
Epoch 276/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5350 - accuracy: 0.7369 - val\_loss: 0.5639 - v  
al\_accuracy: 0.7059  
Epoch 277/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5287 - accuracy: 0.7419 - val\_loss: 0.5706 - v  
al\_accuracy: 0.7170  
Epoch 278/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5499 - accuracy: 0.7258 - val\_loss: 0.5893 - v  
al\_accuracy: 0.7026  
Epoch 279/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5523 - accuracy: 0.7227 - val\_loss: 0.5784 - v  
al\_accuracy: 0.7214  
Epoch 280/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5214 - accuracy: 0.7469 - val\_loss: 0.5701 - v  
al\_accuracy: 0.7114  
Epoch 281/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5329 - accuracy: 0.7338 - val\_loss: 0.5676 - v  
al\_accuracy: 0.7214  
Epoch 282/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5218 - accuracy: 0.7485 - val\_loss: 0.5571 - v  
al\_accuracy: 0.7181  
Epoch 283/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5265 - accuracy: 0.7405 - val\_loss: 0.5607 - v  
al\_accuracy: 0.7203  
Epoch 284/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5349 - accuracy: 0.7435 - val\_loss: 0.5798 - v  
al\_accuracy: 0.7103  
Epoch 285/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5321 - accuracy: 0.7483 - val\_loss: 0.5712 - v  
al\_accuracy: 0.7070  
Epoch 286/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5350 - accuracy: 0.7386 - val\_loss: 0.5608 - v  
al\_accuracy: 0.7181  
Epoch 287/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5215 - accuracy: 0.7513 - val\_loss: 0.5621 - v  
al\_accuracy: 0.7281  
Epoch 288/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5237 - accuracy: 0.7522 - val\_loss: 0.5648 - v  
al\_accuracy: 0.7336  
Epoch 289/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5250 - accuracy: 0.7447 - val\_loss: 0.5826 - v  
al\_accuracy: 0.7225  
Epoch 290/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5395 - accuracy: 0.7416 - val\_loss: 0.6353 - v  
al\_accuracy: 0.6715  
Epoch 291/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5396 - accuracy: 0.7363 - val\_loss: 0.5949 - v  
al\_accuracy: 0.6737

Epoch 292/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5300 - accuracy: 0.7433 - val\_loss: 0.5731 - v  
al\_accuracy: 0.7170  
Epoch 293/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5293 - accuracy: 0.7438 - val\_loss: 0.5898 - v  
al\_accuracy: 0.7137  
Epoch 294/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5190 - accuracy: 0.7560 - val\_loss: 0.5678 - v  
al\_accuracy: 0.7403  
Epoch 295/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5189 - accuracy: 0.7530 - val\_loss: 0.6099 - v  
al\_accuracy: 0.6604  
Epoch 296/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5334 - accuracy: 0.7402 - val\_loss: 0.5935 - v  
al\_accuracy: 0.6948  
Epoch 297/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5277 - accuracy: 0.7452 - val\_loss: 0.5789 - v  
al\_accuracy: 0.7325  
Epoch 298/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5215 - accuracy: 0.7574 - val\_loss: 0.5626 - v  
al\_accuracy: 0.7270  
Epoch 299/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5189 - accuracy: 0.7535 - val\_loss: 0.5550 - v  
al\_accuracy: 0.7214  
Epoch 300/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5208 - accuracy: 0.7538 - val\_loss: 0.5706 - v  
al\_accuracy: 0.7381  
Epoch 301/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5303 - accuracy: 0.7430 - val\_loss: 0.5729 - v  
al\_accuracy: 0.7192  
Epoch 302/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5217 - accuracy: 0.7469 - val\_loss: 0.5935 - v  
al\_accuracy: 0.7159  
Epoch 303/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5322 - accuracy: 0.7435 - val\_loss: 0.5638 - v  
al\_accuracy: 0.7381  
Epoch 304/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5212 - accuracy: 0.7524 - val\_loss: 0.5602 - v  
al\_accuracy: 0.7303  
Epoch 305/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5292 - accuracy: 0.7458 - val\_loss: 0.5676 - v  
al\_accuracy: 0.7248  
Epoch 306/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5365 - accuracy: 0.7394 - val\_loss: 0.5648 - v  
al\_accuracy: 0.7203  
Epoch 307/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5227 - accuracy: 0.7494 - val\_loss: 0.5723 - v  
al\_accuracy: 0.7425  
Epoch 308/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5331 - accuracy: 0.7363 - val\_loss: 0.5634 - v  
al\_accuracy: 0.7270  
Epoch 309/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5190 - accuracy: 0.7530 - val\_loss: 0.5638 - v  
al\_accuracy: 0.7270  
Epoch 310/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5275 - accuracy: 0.7519 - val\_loss: 0.5618 - v  
al\_accuracy: 0.7214  
Epoch 311/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5315 - accuracy: 0.7438 - val\_loss: 0.5809 - v  
al\_accuracy: 0.6981  
Epoch 312/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5319 - accuracy: 0.7449 - val\_loss: 0.5541 - v  
al\_accuracy: 0.7248  
Epoch 313/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5172 - accuracy: 0.7535 - val\_loss: 0.5750 - v  
al\_accuracy: 0.7181  
Epoch 314/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5313 - accuracy: 0.7427 - val\_loss: 0.5597 - v  
al\_accuracy: 0.7203  
Epoch 315/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5219 - accuracy: 0.7563 - val\_loss: 0.5675 - v  
al\_accuracy: 0.7236  
Epoch 316/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5285 - accuracy: 0.7466 - val\_loss: 0.5710 - v  
al\_accuracy: 0.7114  
Epoch 317/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5196 - accuracy: 0.7580 - val\_loss: 0.5656 - v  
al\_accuracy: 0.7347  
Epoch 318/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5288 - accuracy: 0.7449 - val\_loss: 0.5813 - v  
al\_accuracy: 0.7137  
Epoch 319/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5267 - accuracy: 0.7427 - val\_loss: 0.5628 - v

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al accuracy: 0.7436
Epoch 320/400
113/113 [=====] - 0s 3ms/step - loss: 0.5189 - accuracy: 0.7546 - val_loss: 0.5744 - v
al accuracy: 0.7181
Epoch 321/400
113/113 [=====] - 0s 3ms/step - loss: 0.5221 - accuracy: 0.7497 - val_loss: 0.5802 - v
al accuracy: 0.7159
Epoch 322/400
113/113 [=====] - 0s 3ms/step - loss: 0.5060 - accuracy: 0.7610 - val_loss: 0.5746 - v
al accuracy: 0.7236
Epoch 323/400
113/113 [=====] - 0s 3ms/step - loss: 0.5332 - accuracy: 0.7363 - val_loss: 0.5882 - v
al accuracy: 0.7170
Epoch 324/400
113/113 [=====] - 0s 3ms/step - loss: 0.5182 - accuracy: 0.7558 - val_loss: 0.5953 - v
al accuracy: 0.7048
Epoch 325/400
113/113 [=====] - 0s 3ms/step - loss: 0.5193 - accuracy: 0.7516 - val_loss: 0.5646 - v
al accuracy: 0.7336
Epoch 326/400
113/113 [=====] - 0s 3ms/step - loss: 0.5229 - accuracy: 0.7566 - val_loss: 0.5726 - v
al accuracy: 0.7392
Epoch 327/400
113/113 [=====] - 0s 3ms/step - loss: 0.5271 - accuracy: 0.7483 - val_loss: 0.5922 - v
al accuracy: 0.7048
Epoch 328/400
113/113 [=====] - 0s 3ms/step - loss: 0.5266 - accuracy: 0.7441 - val_loss: 0.6083 - v
al accuracy: 0.6937
Epoch 329/400
113/113 [=====] - 0s 3ms/step - loss: 0.5313 - accuracy: 0.7455 - val_loss: 0.5645 - v
al accuracy: 0.7236
Epoch 330/400
113/113 [=====] - 0s 3ms/step - loss: 0.5255 - accuracy: 0.7460 - val_loss: 0.5679 - v
al accuracy: 0.7314
Epoch 331/400
113/113 [=====] - 0s 3ms/step - loss: 0.5315 - accuracy: 0.7444 - val_loss: 0.5728 - v
al accuracy: 0.7270
Epoch 332/400
113/113 [=====] - 0s 3ms/step - loss: 0.5107 - accuracy: 0.7574 - val_loss: 0.5528 - v
al accuracy: 0.7347
Epoch 333/400
113/113 [=====] - 0s 3ms/step - loss: 0.5333 - accuracy: 0.7435 - val_loss: 0.5861 - v
al accuracy: 0.7048
Epoch 334/400
113/113 [=====] - 0s 3ms/step - loss: 0.5127 - accuracy: 0.7583 - val_loss: 0.5832 - v
al accuracy: 0.7114
Epoch 335/400
113/113 [=====] - 0s 3ms/step - loss: 0.5148 - accuracy: 0.7544 - val_loss: 0.5825 - v
al accuracy: 0.7203
Epoch 336/400
113/113 [=====] - 0s 3ms/step - loss: 0.5200 - accuracy: 0.7480 - val_loss: 0.5754 - v
al accuracy: 0.7248
Epoch 337/400
113/113 [=====] - 0s 3ms/step - loss: 0.5077 - accuracy: 0.7619 - val_loss: 0.5648 - v
al accuracy: 0.7370
Epoch 338/400
113/113 [=====] - 0s 3ms/step - loss: 0.5126 - accuracy: 0.7566 - val_loss: 0.5615 - v
al accuracy: 0.7259
Epoch 339/400
113/113 [=====] - 0s 3ms/step - loss: 0.5226 - accuracy: 0.7522 - val_loss: 0.5656 - v
al accuracy: 0.7336
Epoch 340/400
113/113 [=====] - 0s 3ms/step - loss: 0.5108 - accuracy: 0.7580 - val_loss: 0.5876 - v
al accuracy: 0.7059
Epoch 341/400
113/113 [=====] - 0s 3ms/step - loss: 0.5229 - accuracy: 0.7477 - val_loss: 0.5676 - v
al accuracy: 0.7292
Epoch 342/400
113/113 [=====] - 0s 3ms/step - loss: 0.5093 - accuracy: 0.7608 - val_loss: 0.5715 - v
al accuracy: 0.7281
Epoch 343/400
113/113 [=====] - 0s 3ms/step - loss: 0.5411 - accuracy: 0.7369 - val_loss: 0.5775 - v
al accuracy: 0.7248
Epoch 344/400
113/113 [=====] - 0s 3ms/step - loss: 0.5242 - accuracy: 0.7585 - val_loss: 0.5761 - v
al accuracy: 0.7314
Epoch 345/400
113/113 [=====] - 0s 3ms/step - loss: 0.5296 - accuracy: 0.7502 - val_loss: 0.5671 - v
al accuracy: 0.7358
Epoch 346/400
113/113 [=====] - 0s 3ms/step - loss: 0.5156 - accuracy: 0.7546 - val_loss: 0.5547 - v
al accuracy: 0.7436
Epoch 347/400
```

113/113 [=====] - 0s 3ms/step - loss: 0.5148 - accuracy: 0.7535 - val\_loss: 0.5537 - v  
al\_accuracy: 0.7314  
Epoch 348/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5040 - accuracy: 0.7646 - val\_loss: 0.5564 - v  
al\_accuracy: 0.7303  
Epoch 349/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5170 - accuracy: 0.7499 - val\_loss: 0.5542 - v  
al\_accuracy: 0.7403  
Epoch 350/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5139 - accuracy: 0.7538 - val\_loss: 0.5730 - v  
al\_accuracy: 0.7170  
Epoch 351/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5128 - accuracy: 0.7583 - val\_loss: 0.6046 - v  
al\_accuracy: 0.7003  
Epoch 352/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5210 - accuracy: 0.7549 - val\_loss: 0.6546 - v  
al\_accuracy: 0.6704  
Epoch 353/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5108 - accuracy: 0.7605 - val\_loss: 0.5730 - v  
al\_accuracy: 0.7225  
Epoch 354/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5150 - accuracy: 0.7522 - val\_loss: 0.5682 - v  
al\_accuracy: 0.7325  
Epoch 355/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5124 - accuracy: 0.7594 - val\_loss: 0.5657 - v  
al\_accuracy: 0.7358  
Epoch 356/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5165 - accuracy: 0.7544 - val\_loss: 0.5655 - v  
al\_accuracy: 0.7403  
Epoch 357/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5149 - accuracy: 0.7563 - val\_loss: 0.5581 - v  
al\_accuracy: 0.7469  
Epoch 358/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5225 - accuracy: 0.7469 - val\_loss: 0.5824 - v  
al\_accuracy: 0.7270  
Epoch 359/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5255 - accuracy: 0.7527 - val\_loss: 0.5578 - v  
al\_accuracy: 0.7358  
Epoch 360/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5142 - accuracy: 0.7585 - val\_loss: 0.5806 - v  
al\_accuracy: 0.7114  
Epoch 361/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5344 - accuracy: 0.7433 - val\_loss: 0.5638 - v  
al\_accuracy: 0.7314  
Epoch 362/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5095 - accuracy: 0.7555 - val\_loss: 0.5608 - v  
al\_accuracy: 0.7281  
Epoch 363/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5128 - accuracy: 0.7552 - val\_loss: 0.5697 - v  
al\_accuracy: 0.7214  
Epoch 364/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5098 - accuracy: 0.7577 - val\_loss: 0.5630 - v  
al\_accuracy: 0.7214  
Epoch 365/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5270 - accuracy: 0.7419 - val\_loss: 0.5696 - v  
al\_accuracy: 0.7259  
Epoch 366/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5168 - accuracy: 0.7530 - val\_loss: 0.5517 - v  
al\_accuracy: 0.7259  
Epoch 367/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5068 - accuracy: 0.7616 - val\_loss: 0.5518 - v  
al\_accuracy: 0.7270  
Epoch 368/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5155 - accuracy: 0.7583 - val\_loss: 0.5797 - v  
al\_accuracy: 0.7236  
Epoch 369/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5227 - accuracy: 0.7460 - val\_loss: 0.5632 - v  
al\_accuracy: 0.7381  
Epoch 370/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5043 - accuracy: 0.7571 - val\_loss: 0.5697 - v  
al\_accuracy: 0.7248  
Epoch 371/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5217 - accuracy: 0.7460 - val\_loss: 0.6014 - v  
al\_accuracy: 0.7192  
Epoch 372/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5037 - accuracy: 0.7594 - val\_loss: 0.5669 - v  
al\_accuracy: 0.7336  
Epoch 373/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5175 - accuracy: 0.7472 - val\_loss: 0.5868 - v  
al\_accuracy: 0.7159  
Epoch 374/400  
113/113 [=====] - 0s 3ms/step - loss: 0.5117 - accuracy: 0.7616 - val\_loss: 0.5555 - v  
al\_accuracy: 0.7325



```

Epoch 375/400
113/113 [=====] - 0s 3ms/step - loss: 0.5058 - accuracy: 0.7649 - val_loss: 0.5916 - v
al_accuracy: 0.7081
Epoch 376/400
113/113 [=====] - 0s 3ms/step - loss: 0.5122 - accuracy: 0.7552 - val_loss: 0.5591 - v
al_accuracy: 0.7370
Epoch 377/400
113/113 [=====] - 0s 3ms/step - loss: 0.5075 - accuracy: 0.7621 - val_loss: 0.5709 - v
al_accuracy: 0.7125
Epoch 378/400
113/113 [=====] - 0s 3ms/step - loss: 0.4963 - accuracy: 0.7671 - val_loss: 0.5536 - v
al_accuracy: 0.7370
Epoch 379/400
113/113 [=====] - 0s 3ms/step - loss: 0.4962 - accuracy: 0.7663 - val_loss: 0.5552 - v
al_accuracy: 0.7259
Epoch 380/400
113/113 [=====] - 0s 3ms/step - loss: 0.5083 - accuracy: 0.7583 - val_loss: 0.5623 - v
al_accuracy: 0.7270
Epoch 381/400
113/113 [=====] - 0s 3ms/step - loss: 0.5183 - accuracy: 0.7513 - val_loss: 0.5864 - v
al_accuracy: 0.7225
Epoch 382/400
113/113 [=====] - 0s 3ms/step - loss: 0.5390 - accuracy: 0.7369 - val_loss: 0.6192 - v
al_accuracy: 0.6759
Epoch 383/400
113/113 [=====] - 0s 3ms/step - loss: 0.5208 - accuracy: 0.7530 - val_loss: 0.5857 - v
al_accuracy: 0.7325
Epoch 384/400
113/113 [=====] - 0s 3ms/step - loss: 0.5125 - accuracy: 0.7627 - val_loss: 0.5584 - v
al_accuracy: 0.7292
Epoch 385/400
113/113 [=====] - 0s 3ms/step - loss: 0.5036 - accuracy: 0.7602 - val_loss: 0.5798 - v
al_accuracy: 0.7103
Epoch 386/400
113/113 [=====] - 0s 3ms/step - loss: 0.4958 - accuracy: 0.7694 - val_loss: 0.5836 - v
al_accuracy: 0.7236
Epoch 387/400
113/113 [=====] - 0s 3ms/step - loss: 0.5060 - accuracy: 0.7591 - val_loss: 0.5505 - v
al_accuracy: 0.7392
Epoch 388/400
113/113 [=====] - 0s 3ms/step - loss: 0.5171 - accuracy: 0.7546 - val_loss: 0.6229 - v
al_accuracy: 0.7092
Epoch 389/400
113/113 [=====] - 0s 3ms/step - loss: 0.5135 - accuracy: 0.7499 - val_loss: 0.6029 - v
al_accuracy: 0.7181
Epoch 390/400
113/113 [=====] - 0s 3ms/step - loss: 0.5200 - accuracy: 0.7538 - val_loss: 0.5613 - v
al_accuracy: 0.7336
Epoch 391/400
113/113 [=====] - 0s 3ms/step - loss: 0.5231 - accuracy: 0.7491 - val_loss: 0.5748 - v
al_accuracy: 0.7259
Epoch 392/400
113/113 [=====] - 0s 3ms/step - loss: 0.5114 - accuracy: 0.7497 - val_loss: 0.5942 - v
al_accuracy: 0.7059
Epoch 393/400
113/113 [=====] - 0s 3ms/step - loss: 0.5048 - accuracy: 0.7613 - val_loss: 0.5868 - v
al_accuracy: 0.7125
Epoch 394/400
113/113 [=====] - 0s 3ms/step - loss: 0.5220 - accuracy: 0.7449 - val_loss: 0.5466 - v
al_accuracy: 0.7358
Epoch 395/400
113/113 [=====] - 0s 3ms/step - loss: 0.5094 - accuracy: 0.7533 - val_loss: 0.6479 - v
al_accuracy: 0.6615
Epoch 396/400
113/113 [=====] - 0s 3ms/step - loss: 0.5035 - accuracy: 0.7619 - val_loss: 0.5520 - v
al_accuracy: 0.7447
Epoch 397/400
113/113 [=====] - 0s 3ms/step - loss: 0.4969 - accuracy: 0.7669 - val_loss: 0.5651 - v
al_accuracy: 0.7370
Epoch 398/400
113/113 [=====] - 0s 3ms/step - loss: 0.5076 - accuracy: 0.7608 - val_loss: 0.5695 - v
al_accuracy: 0.7314
Epoch 399/400
113/113 [=====] - 0s 3ms/step - loss: 0.5086 - accuracy: 0.7563 - val_loss: 0.5508 - v
al_accuracy: 0.7314
Epoch 400/400
113/113 [=====] - 0s 3ms/step - loss: 0.5056 - accuracy: 0.7610 - val_loss: 0.5684 - v
al_accuracy: 0.7370

```

```
In [ ]: y_prob = model.predict(x_test)
```

```
36/36 [=====] - 0s 2ms/step
```

```
In [ ]: y_prob
```

```
Out[ ]: array([[8.51200809e-07, 6.63104995e-18, 3.02809733e-03, 9.96971011e-01],
               [6.98710382e-01, 2.99343258e-01, 7.85491239e-16, 1.94636441e-03],
               [4.99607861e-01, 4.87462491e-01, 1.90650836e-14, 1.29296612e-02],
               [2.58310318e-01, 7.41689503e-01, 1.15063315e-29, 5.14429033e-08],
               [2.96813599e-03, 1.45278493e-04, 7.25178123e-01, 2.71708548e-01],
               [1.21634861e-03, 3.59697499e-24, 3.79482416e-13, 9.98783648e-01]],
               dtype=float32)
```

```
In [ ]: y_pred = y_prob.argmax(axis=1)
```

## Predicting the accuracy

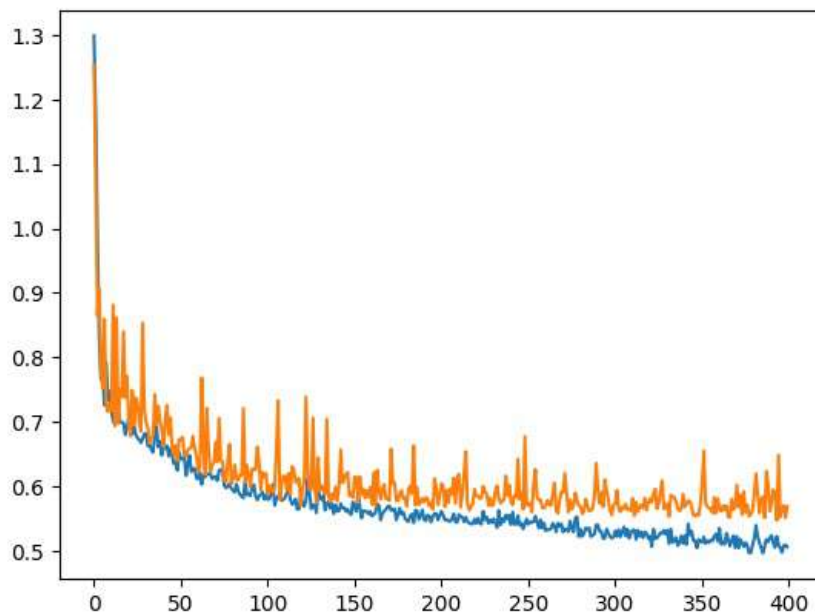
```
In [ ]: from sklearn.metrics import accuracy_score
accuracy_score(y_test, y_pred)
```

```
Out[ ]: 0.7293700088731144
```

## Plotting the loss curve

```
In [ ]: plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
```

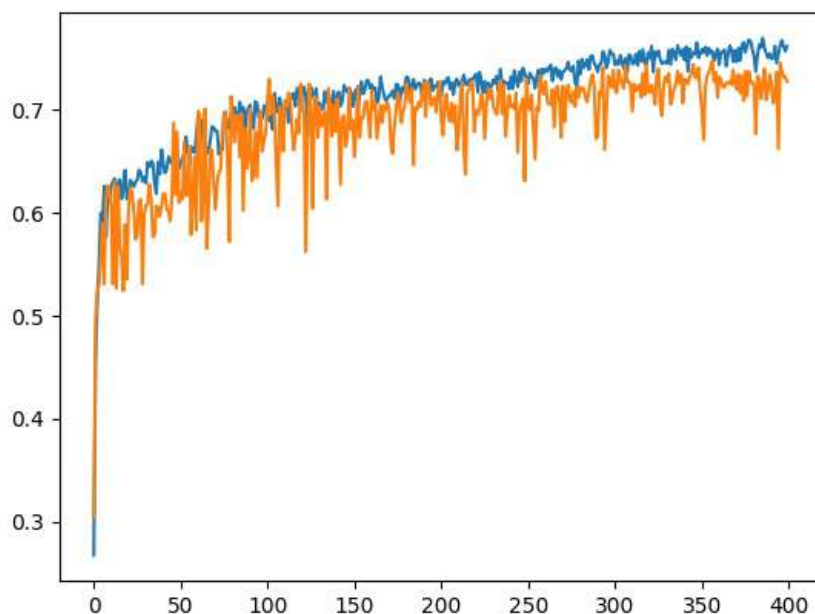
```
Out[ ]: [<matplotlib.lines.Line2D at 0x2c06241c410>]
```



## Plotting Accuracy Curve

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
```

```
Out[ ]: [<matplotlib.lines.Line2D at 0x2c062e24fd0>]
```



```
In [ ]: y_pred
```

```
Out[ ]: array([0, 0, 0, ..., 1, 2, 3], dtype=int64)
```

```
In [ ]: x_test[100]
```

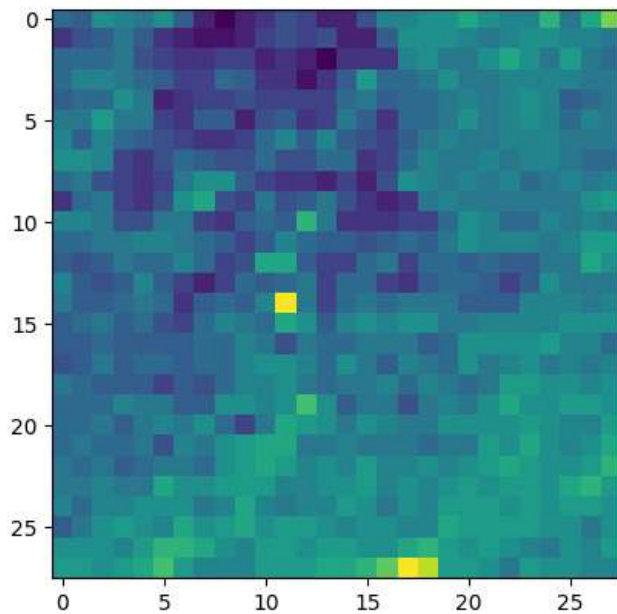
```
Out[ ]: array([[0.21960784, 0.21568627, 0.23137255, 0.22745098, 0.22352941,
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0.23137255, 0.22745098, 0.22745098]])
```

```
In [ ]: plt.imshow(x_test[100])
```

```
Out[ ]: <matplotlib.image.AxesImage at 0x2c06303c450>
```



```
In [ ]: number = model.predict(x_test[100].reshape(1,28,28)).argmax(axis=1)
```

```
1/1 [=====] - 0s 16ms/step
1/1 [=====] - 0s 16ms/step
```

```
In [ ]: print("The actual image is of", (list(cl.keys())[list(cl.values()).index(y_test[100])]))
```

```
The actual image is of green_area
```

```
In [ ]: print("The predicted image is of", (list(cl.keys())[list(cl.values()).index(int(number))]))
```

```
The predicted image is of green_area
```