

```
In [1]: from google.colab import drive  
drive.mount('/content/drive')
```

Mounted at /content/drive

```
In [2]: !unzip /content/drive/MyDrive/dogs-vs-cats.zip
```

Archive: /content/drive/MyDrive/dogs-vs-cats.zip  
inflating: sampleSubmission.csv  
inflating: test1.zip  
inflating: train.zip

```
In [3]: !unzip /content/train.zip
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**Streaming output truncated to the last 5000 lines.**

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**Streaming output truncated to the last 5000 lines.**

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```

In [ ]: # Q1. Consider the Cats & Dogs example. Start initially with a training sample of 1000

Replicating images to training, validation, and test directories

```

In [5]: import os, shutil, pathlib

original_dir = pathlib.Path("train")
new_base_dir = pathlib.Path("cats_vs_dogs_small")

def make_subset(subset_name, start_index, end_index):
    for category in ("cat", "dog"):
        dir = new_base_dir / subset_name / category
        os.makedirs(dir)
        fnames = [f"{category}.{i}.jpg" for i in range(start_index, end_index)]
        for fname in fnames:
            shutil.copyfile(src=original_dir / fname,
                            dst=dir / fname)

make_subset("train", start_index=667, end_index=1667)
make_subset("validation", start_index=1668, end_index=2168)
make_subset("test", start_index=2169, end_index=2669)

```

In [ ]: #Picture reading with "image\_dataset\_from\_directory"

```

In [6]: from tensorflow.keras.utils import image_dataset_from_directory

training_data = image_dataset_from_directory(
    new_base_dir / "train",
    image_size=(180, 180),
    batch_size=32)
valid_data = image_dataset_from_directory(
    new_base_dir / "validation",
    image_size=(180, 180),
    batch_size=32)
testing_data = image_dataset_from_directory(
    new_base_dir / "test",
    image_size=(180, 180),
    batch_size=32)

```

```
image_size=(180, 180),
batch_size=32)

Found 2000 files belonging to 2 classes.
Found 1000 files belonging to 2 classes.
Found 1000 files belonging to 2 classes.
```

preprocessing of data

Created a dataset instance with 1000 random samples and a vector size of 16 for each sample, using a NumPy array

```
In [7]: import numpy as np
import tensorflow as tf
random_numbers = np.random.normal(size=(1000, 16))
dataset = tf.data.Dataset.from_tensor_slices(random_numbers)
```

```
In [8]: for i, element in enumerate(dataset):
    print(element.shape)
    if i >= 2:
        break
```

```
(16,)
(16,)
(16,)
```

```
In [9]: batched_dataset = dataset.batch(32)
for i, element in enumerate(batched_dataset):
    print(element.shape)
    if i >= 2:
        break
```

```
(32, 16)
(32, 16)
(32, 16)
```

```
In [10]: reshaped_dataset = dataset.map(lambda x: tf.reshape(x, (4, 4)))
for i, element in enumerate(reshaped_dataset):
    print(element.shape)
    if i >= 2:
        break
```

```
(4, 4)
(4, 4)
(4, 4)
```

```
In [11]: #Creating the model

#Building a small network to separate dogs from cats
```

```
In [11]: for data_batch, labels_batch in training_data:
    print("data batch shape:", data_batch.shape)
    print("labels batch shape:", labels_batch.shape)
    break
```

```
data batch shape: (32, 180, 180, 3)
labels batch shape: (32,)
```

Building a few convolution for dogs vs. cats

```
In [12]: from tensorflow import keras
from tensorflow.keras import layers

in10 = keras.Input(shape=(180, 180, 3))
mad = layers.Rescaling(1./255)(in10)
mad = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(mad)
mad = layers.MaxPooling2D(pool_size=2)(mad)
mad = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(mad)
mad = layers.MaxPooling2D(pool_size=2)(mad)
mad = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(mad)
mad = layers.MaxPooling2D(pool_size=2)(mad)
mad = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(mad)
mad = layers.MaxPooling2D(pool_size=2)(mad)
mad = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(mad)
mad = layers.Flatten()(mad)
mad = layers.Dropout(0.5)(mad)
output10 = layers.Dense(1, activation="sigmoid")(mad)
model10 = keras.Model(inputs=in10, outputs=output10)
```

Giving the model for training

```
In [13]: model10.compile(loss="binary_crossentropy",
                      optimizer="adam",
                      metrics=["accuracy"])
```

```
In [ ]: # The training dataset is used to train the model after it has been built. We use the
```

```
In [14]: model10.summary()
```

Model: "model"

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	[(None, 180, 180, 3)]	0
rescaling (Rescaling)	(None, 180, 180, 3)	0
conv2d (Conv2D)	(None, 178, 178, 32)	896
max_pooling2d (MaxPooling2D)	(None, 89, 89, 32)	0
conv2d_1 (Conv2D)	(None, 87, 87, 64)	18496
max_pooling2d_1 (MaxPooling2D)	(None, 43, 43, 64)	0
conv2d_2 (Conv2D)	(None, 41, 41, 128)	73856
max_pooling2d_2 (MaxPooling2D)	(None, 20, 20, 128)	0
conv2d_3 (Conv2D)	(None, 18, 18, 256)	295168
max_pooling2d_3 (MaxPooling2D)	(None, 9, 9, 256)	0
conv2d_4 (Conv2D)	(None, 7, 7, 256)	590080
flatten (Flatten)	(None, 12544)	0
dropout (Dropout)	(None, 12544)	0
dense (Dense)	(None, 1)	12545

Total params: 991041 (3.78 MB)  
 Trainable params: 991041 (3.78 MB)  
 Non-trainable params: 0 (0.00 Byte)

In [1]: #Model fitting is done using the dataset.

```
In [15]: callbac10 = [
    keras.callbacks.ModelCheckpoint(
        filepath="convnet_from_scratch.keras",
        save_best_only=True,
        monitor="val_loss")
]
history10 = mode10.fit(
    training_data,
    epochs=100,
    validation_data=valid_data,
    callbacks=callbac10)
```

```
Epoch 1/100
63/63 [=====] - 8s 33ms/step - loss: 0.6958 - accuracy: 0.51
00 - val_loss: 0.6927 - val_accuracy: 0.5150
Epoch 2/100
63/63 [=====] - 2s 23ms/step - loss: 0.6934 - accuracy: 0.52
20 - val_loss: 0.6818 - val_accuracy: 0.5520
Epoch 3/100
63/63 [=====] - 1s 21ms/step - loss: 0.6846 - accuracy: 0.58
25 - val_loss: 0.6929 - val_accuracy: 0.5310
Epoch 4/100
63/63 [=====] - 1s 22ms/step - loss: 0.6701 - accuracy: 0.59
05 - val_loss: 0.6674 - val_accuracy: 0.6290
Epoch 5/100
63/63 [=====] - 2s 23ms/step - loss: 0.6342 - accuracy: 0.64
80 - val_loss: 0.6204 - val_accuracy: 0.6540
Epoch 6/100
63/63 [=====] - 1s 23ms/step - loss: 0.6216 - accuracy: 0.65
70 - val_loss: 0.6198 - val_accuracy: 0.6670
Epoch 7/100
63/63 [=====] - 2s 23ms/step - loss: 0.5870 - accuracy: 0.70
70 - val_loss: 0.5980 - val_accuracy: 0.6900
Epoch 8/100
63/63 [=====] - 2s 23ms/step - loss: 0.5644 - accuracy: 0.71
50 - val_loss: 0.5812 - val_accuracy: 0.7060
Epoch 9/100
63/63 [=====] - 1s 22ms/step - loss: 0.5314 - accuracy: 0.72
85 - val_loss: 0.5959 - val_accuracy: 0.6960
Epoch 10/100
63/63 [=====] - 2s 24ms/step - loss: 0.4919 - accuracy: 0.75
75 - val_loss: 0.5379 - val_accuracy: 0.7390
Epoch 11/100
63/63 [=====] - 1s 22ms/step - loss: 0.4587 - accuracy: 0.77
75 - val_loss: 0.5735 - val_accuracy: 0.7110
Epoch 12/100
63/63 [=====] - 1s 21ms/step - loss: 0.4296 - accuracy: 0.80
40 - val_loss: 0.5782 - val_accuracy: 0.7310
Epoch 13/100
63/63 [=====] - 1s 21ms/step - loss: 0.3681 - accuracy: 0.84
10 - val_loss: 0.5908 - val_accuracy: 0.7440
Epoch 14/100
63/63 [=====] - 1s 21ms/step - loss: 0.3003 - accuracy: 0.87
45 - val_loss: 0.6864 - val_accuracy: 0.7370
Epoch 15/100
63/63 [=====] - 1s 21ms/step - loss: 0.2532 - accuracy: 0.89
70 - val_loss: 0.6453 - val_accuracy: 0.7470
Epoch 16/100
63/63 [=====] - 1s 21ms/step - loss: 0.2236 - accuracy: 0.90
75 - val_loss: 0.7013 - val_accuracy: 0.7540
Epoch 17/100
63/63 [=====] - 1s 21ms/step - loss: 0.1749 - accuracy: 0.92
45 - val_loss: 0.7983 - val_accuracy: 0.7590
Epoch 18/100
63/63 [=====] - 1s 21ms/step - loss: 0.1514 - accuracy: 0.94
10 - val_loss: 0.8019 - val_accuracy: 0.7620
Epoch 19/100
63/63 [=====] - 1s 21ms/step - loss: 0.1140 - accuracy: 0.95
65 - val_loss: 0.8785 - val_accuracy: 0.7630
Epoch 20/100
63/63 [=====] - 1s 22ms/step - loss: 0.1006 - accuracy: 0.96
30 - val_loss: 0.8160 - val_accuracy: 0.7560
```

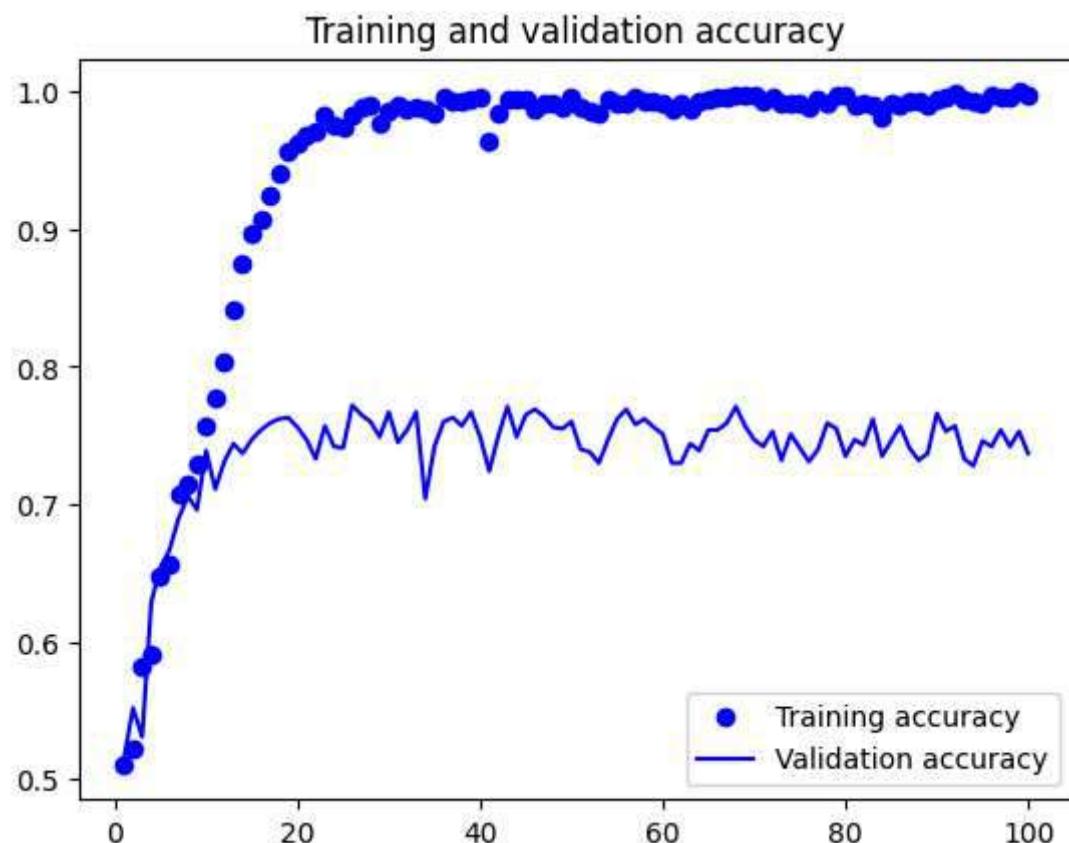
```
Epoch 21/100
63/63 [=====] - 1s 22ms/step - loss: 0.0826 - accuracy: 0.96
75 - val_loss: 1.0797 - val_accuracy: 0.7470
Epoch 22/100
63/63 [=====] - 1s 21ms/step - loss: 0.0742 - accuracy: 0.97
15 - val_loss: 1.2478 - val_accuracy: 0.7330
Epoch 23/100
63/63 [=====] - 1s 22ms/step - loss: 0.0699 - accuracy: 0.98
25 - val_loss: 0.9661 - val_accuracy: 0.7570
Epoch 24/100
63/63 [=====] - 1s 21ms/step - loss: 0.0779 - accuracy: 0.97
60 - val_loss: 1.0271 - val_accuracy: 0.7420
Epoch 25/100
63/63 [=====] - 1s 22ms/step - loss: 0.0713 - accuracy: 0.97
35 - val_loss: 0.9989 - val_accuracy: 0.7410
Epoch 26/100
63/63 [=====] - 1s 21ms/step - loss: 0.0511 - accuracy: 0.98
25 - val_loss: 1.1614 - val_accuracy: 0.7720
Epoch 27/100
63/63 [=====] - 1s 21ms/step - loss: 0.0296 - accuracy: 0.98
90 - val_loss: 1.1925 - val_accuracy: 0.7650
Epoch 28/100
63/63 [=====] - 1s 21ms/step - loss: 0.0299 - accuracy: 0.98
95 - val_loss: 1.3253 - val_accuracy: 0.7600
Epoch 29/100
63/63 [=====] - 1s 21ms/step - loss: 0.0626 - accuracy: 0.97
70 - val_loss: 1.0525 - val_accuracy: 0.7490
Epoch 30/100
63/63 [=====] - 1s 21ms/step - loss: 0.0364 - accuracy: 0.98
50 - val_loss: 1.1399 - val_accuracy: 0.7670
Epoch 31/100
63/63 [=====] - 1s 21ms/step - loss: 0.0271 - accuracy: 0.98
95 - val_loss: 1.3043 - val_accuracy: 0.7450
Epoch 32/100
63/63 [=====] - 1s 22ms/step - loss: 0.0279 - accuracy: 0.98
75 - val_loss: 1.2976 - val_accuracy: 0.7540
Epoch 33/100
63/63 [=====] - 1s 22ms/step - loss: 0.0320 - accuracy: 0.98
85 - val_loss: 1.3384 - val_accuracy: 0.7670
Epoch 34/100
63/63 [=====] - 1s 22ms/step - loss: 0.0346 - accuracy: 0.98
70 - val_loss: 1.6379 - val_accuracy: 0.7840
Epoch 35/100
63/63 [=====] - 1s 22ms/step - loss: 0.0458 - accuracy: 0.98
35 - val_loss: 1.1987 - val_accuracy: 0.7420
Epoch 36/100
63/63 [=====] - 1s 22ms/step - loss: 0.0203 - accuracy: 0.99
55 - val_loss: 1.2434 - val_accuracy: 0.7600
Epoch 37/100
63/63 [=====] - 1s 21ms/step - loss: 0.0179 - accuracy: 0.99
35 - val_loss: 1.3229 - val_accuracy: 0.7630
Epoch 38/100
63/63 [=====] - 1s 21ms/step - loss: 0.0211 - accuracy: 0.99
25 - val_loss: 1.2755 - val_accuracy: 0.7570
Epoch 39/100
63/63 [=====] - 1s 21ms/step - loss: 0.0206 - accuracy: 0.99
40 - val_loss: 1.2311 - val_accuracy: 0.7670
Epoch 40/100
63/63 [=====] - 1s 21ms/step - loss: 0.0117 - accuracy: 0.99
60 - val_loss: 1.4412 - val_accuracy: 0.7490
```

```
Epoch 41/100
63/63 [=====] - 1s 21ms/step - loss: 0.0819 - accuracy: 0.96
35 - val_loss: 1.2684 - val_accuracy: 0.7240
Epoch 42/100
63/63 [=====] - 1s 21ms/step - loss: 0.0508 - accuracy: 0.98
35 - val_loss: 1.3175 - val_accuracy: 0.7500
Epoch 43/100
63/63 [=====] - 1s 21ms/step - loss: 0.0244 - accuracy: 0.99
45 - val_loss: 1.4847 - val_accuracy: 0.7710
Epoch 44/100
63/63 [=====] - 1s 21ms/step - loss: 0.0190 - accuracy: 0.99
48 - val_loss: 1.4514 - val_accuracy: 0.7490
Epoch 45/100
63/63 [=====] - 1s 21ms/step - loss: 0.0215 - accuracy: 0.99
48 - val_loss: 1.4874 - val_accuracy: 0.7650
Epoch 46/100
63/63 [=====] - 1s 22ms/step - loss: 0.0383 - accuracy: 0.98
70 - val_loss: 1.3327 - val_accuracy: 0.7690
Epoch 47/100
63/63 [=====] - 1s 22ms/step - loss: 0.0260 - accuracy: 0.99
20 - val_loss: 1.3258 - val_accuracy: 0.7640
Epoch 48/100
63/63 [=====] - 1s 22ms/step - loss: 0.0239 - accuracy: 0.99
20 - val_loss: 1.5523 - val_accuracy: 0.7560
Epoch 49/100
63/63 [=====] - 1s 22ms/step - loss: 0.0273 - accuracy: 0.98
90 - val_loss: 1.6004 - val_accuracy: 0.7550
Epoch 50/100
63/63 [=====] - 1s 22ms/step - loss: 0.0130 - accuracy: 0.99
65 - val_loss: 1.6270 - val_accuracy: 0.7600
Epoch 51/100
63/63 [=====] - 1s 21ms/step - loss: 0.0310 - accuracy: 0.98
85 - val_loss: 1.4483 - val_accuracy: 0.7400
Epoch 52/100
63/63 [=====] - 1s 21ms/step - loss: 0.0454 - accuracy: 0.98
60 - val_loss: 1.5955 - val_accuracy: 0.7380
Epoch 53/100
63/63 [=====] - 1s 21ms/step - loss: 0.0469 - accuracy: 0.98
45 - val_loss: 1.4594 - val_accuracy: 0.7300
Epoch 54/100
63/63 [=====] - 1s 21ms/step - loss: 0.0194 - accuracy: 0.99
50 - val_loss: 1.6110 - val_accuracy: 0.7470
Epoch 55/100
63/63 [=====] - 1s 21ms/step - loss: 0.0162 - accuracy: 0.99
15 - val_loss: 1.4508 - val_accuracy: 0.7620
Epoch 56/100
63/63 [=====] - 1s 21ms/step - loss: 0.0219 - accuracy: 0.99
10 - val_loss: 1.3670 - val_accuracy: 0.7690
Epoch 57/100
63/63 [=====] - 1s 21ms/step - loss: 0.0106 - accuracy: 0.99
60 - val_loss: 1.5738 - val_accuracy: 0.7580
Epoch 58/100
63/63 [=====] - 1s 22ms/step - loss: 0.0138 - accuracy: 0.99
30 - val_loss: 1.3137 - val_accuracy: 0.7620
Epoch 59/100
63/63 [=====] - 1s 22ms/step - loss: 0.0186 - accuracy: 0.99
35 - val_loss: 1.4853 - val_accuracy: 0.7560
Epoch 60/100
63/63 [=====] - 1s 22ms/step - loss: 0.0197 - accuracy: 0.99
15 - val_loss: 1.6942 - val_accuracy: 0.7510
```

```
Epoch 61/100
63/63 [=====] - 1s 22ms/step - loss: 0.0482 - accuracy: 0.98
65 - val_loss: 1.8731 - val_accuracy: 0.7300
Epoch 62/100
63/63 [=====] - 1s 22ms/step - loss: 0.0309 - accuracy: 0.99
10 - val_loss: 1.5285 - val_accuracy: 0.7300
Epoch 63/100
63/63 [=====] - 1s 21ms/step - loss: 0.0272 - accuracy: 0.98
75 - val_loss: 1.5289 - val_accuracy: 0.7440
Epoch 64/100
63/63 [=====] - 1s 21ms/step - loss: 0.0214 - accuracy: 0.99
30 - val_loss: 1.5016 - val_accuracy: 0.7390
Epoch 65/100
63/63 [=====] - 1s 21ms/step - loss: 0.0156 - accuracy: 0.99
45 - val_loss: 1.6840 - val_accuracy: 0.7540
Epoch 66/100
63/63 [=====] - 1s 21ms/step - loss: 0.0108 - accuracy: 0.99
55 - val_loss: 1.7737 - val_accuracy: 0.7540
Epoch 67/100
63/63 [=====] - 1s 21ms/step - loss: 0.0094 - accuracy: 0.99
65 - val_loss: 1.6213 - val_accuracy: 0.7590
Epoch 68/100
63/63 [=====] - 1s 21ms/step - loss: 0.0069 - accuracy: 0.99
75 - val_loss: 1.6557 - val_accuracy: 0.7710
Epoch 69/100
63/63 [=====] - 1s 21ms/step - loss: 0.0091 - accuracy: 0.99
75 - val_loss: 1.6800 - val_accuracy: 0.7570
Epoch 70/100
63/63 [=====] - 1s 21ms/step - loss: 0.0062 - accuracy: 0.99
75 - val_loss: 1.7593 - val_accuracy: 0.7470
Epoch 71/100
63/63 [=====] - 1s 22ms/step - loss: 0.0219 - accuracy: 0.99
25 - val_loss: 1.8308 - val_accuracy: 0.7420
Epoch 72/100
63/63 [=====] - 1s 22ms/step - loss: 0.0103 - accuracy: 0.99
60 - val_loss: 1.9350 - val_accuracy: 0.7530
Epoch 73/100
63/63 [=====] - 1s 21ms/step - loss: 0.0290 - accuracy: 0.99
15 - val_loss: 2.0577 - val_accuracy: 0.7320
Epoch 74/100
63/63 [=====] - 1s 22ms/step - loss: 0.0267 - accuracy: 0.99
15 - val_loss: 1.8407 - val_accuracy: 0.7510
Epoch 75/100
63/63 [=====] - 1s 21ms/step - loss: 0.0277 - accuracy: 0.99
20 - val_loss: 1.6211 - val_accuracy: 0.7410
Epoch 76/100
63/63 [=====] - 1s 21ms/step - loss: 0.0359 - accuracy: 0.98
80 - val_loss: 1.8582 - val_accuracy: 0.7310
Epoch 77/100
63/63 [=====] - 1s 21ms/step - loss: 0.0239 - accuracy: 0.99
45 - val_loss: 2.1591 - val_accuracy: 0.7480
Epoch 78/100
63/63 [=====] - 1s 21ms/step - loss: 0.0227 - accuracy: 0.99
20 - val_loss: 1.9896 - val_accuracy: 0.7590
Epoch 79/100
63/63 [=====] - 1s 21ms/step - loss: 0.0097 - accuracy: 0.99
75 - val_loss: 1.6902 - val_accuracy: 0.7550
Epoch 80/100
63/63 [=====] - 1s 21ms/step - loss: 0.0096 - accuracy: 0.99
75 - val_loss: 1.7792 - val_accuracy: 0.7350
```

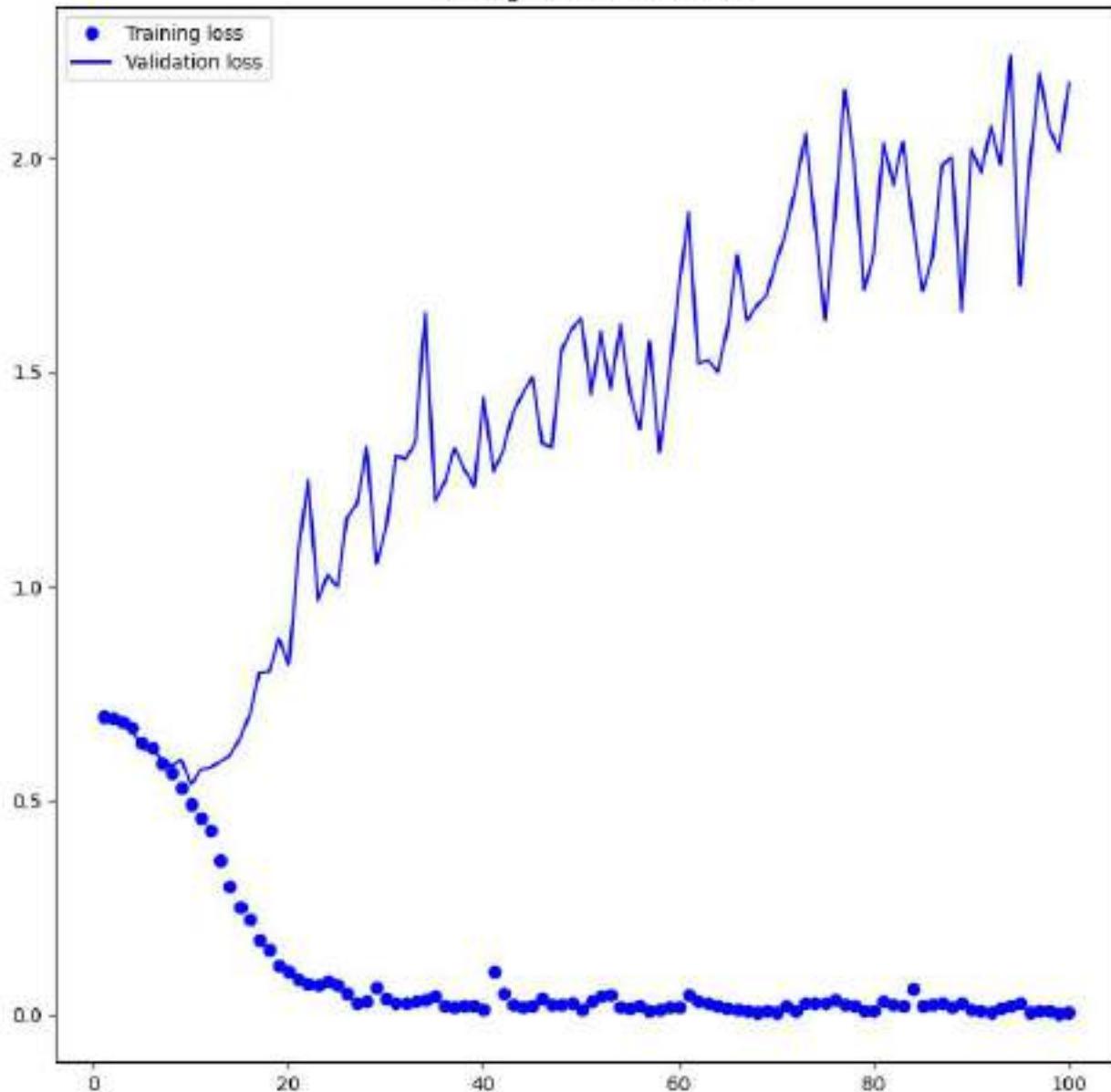
```
Epoch 81/100
63/63 [=====] - 1s 21ms/step - loss: 0.0302 - accuracy: 0.99
00 - val_loss: 2.0356 - val_accuracy: 0.7470
Epoch 82/100
63/63 [=====] - 1s 22ms/step - loss: 0.0252 - accuracy: 0.99
10 - val_loss: 1.9373 - val_accuracy: 0.7430
Epoch 83/100
63/63 [=====] - 1s 21ms/step - loss: 0.0208 - accuracy: 0.99
05 - val_loss: 2.0387 - val_accuracy: 0.7620
Epoch 84/100
63/63 [=====] - 1s 22ms/step - loss: 0.0594 - accuracy: 0.98
15 - val_loss: 1.8477 - val_accuracy: 0.7350
Epoch 85/100
63/63 [=====] - 1s 22ms/step - loss: 0.0212 - accuracy: 0.99
15 - val_loss: 1.6892 - val_accuracy: 0.7460
Epoch 86/100
63/63 [=====] - 1s 22ms/step - loss: 0.0246 - accuracy: 0.98
95 - val_loss: 1.7665 - val_accuracy: 0.7570
Epoch 87/100
63/63 [=====] - 1s 21ms/step - loss: 0.0297 - accuracy: 0.99
25 - val_loss: 1.9854 - val_accuracy: 0.7410
Epoch 88/100
63/63 [=====] - 1s 21ms/step - loss: 0.0189 - accuracy: 0.99
30 - val_loss: 2.0015 - val_accuracy: 0.7320
Epoch 89/100
63/63 [=====] - 1s 21ms/step - loss: 0.0297 - accuracy: 0.99
05 - val_loss: 1.6419 - val_accuracy: 0.7370
Epoch 90/100
63/63 [=====] - 1s 21ms/step - loss: 0.0132 - accuracy: 0.99
50 - val_loss: 2.0217 - val_accuracy: 0.7660
Epoch 91/100
63/63 [=====] - 1s 21ms/step - loss: 0.0104 - accuracy: 0.99
60 - val_loss: 1.9662 - val_accuracy: 0.7530
Epoch 92/100
63/63 [=====] - 1s 21ms/step - loss: 0.0062 - accuracy: 0.99
90 - val_loss: 2.0743 - val_accuracy: 0.7570
Epoch 93/100
63/63 [=====] - 1s 21ms/step - loss: 0.0140 - accuracy: 0.99
45 - val_loss: 1.9849 - val_accuracy: 0.7330
Epoch 94/100
63/63 [=====] - 1s 21ms/step - loss: 0.0229 - accuracy: 0.99
30 - val_loss: 2.2397 - val_accuracy: 0.7280
Epoch 95/100
63/63 [=====] - 1s 21ms/step - loss: 0.0284 - accuracy: 0.99
20 - val_loss: 1.7037 - val_accuracy: 0.7460
Epoch 96/100
63/63 [=====] - 1s 21ms/step - loss: 0.0073 - accuracy: 0.99
70 - val_loss: 1.9914 - val_accuracy: 0.7420
Epoch 97/100
63/63 [=====] - 1s 21ms/step - loss: 0.0106 - accuracy: 0.99
60 - val_loss: 2.1971 - val_accuracy: 0.7540
Epoch 98/100
63/63 [=====] - 1s 21ms/step - loss: 0.0091 - accuracy: 0.99
55 - val_loss: 2.0682 - val_accuracy: 0.7420
Epoch 99/100
63/63 [=====] - 1s 22ms/step - loss: 0.0018 - accuracy: 0.99
95 - val_loss: 2.0159 - val_accuracy: 0.7530
Epoch 100/100
63/63 [=====] - 1s 21ms/step - loss: 0.0071 - accuracy: 0.99
80 - val_loss: 2.1747 - val_accuracy: 0.7370
```

```
In [16]: import matplotlib.pyplot as plt
accur10 = history10.history["accuracy"]
val_accur10 = history10.history["val_accuracy"]
loss10 = history10.history["loss"]
val_loss10 = history10.history["val_loss"]
epochs = range(1, len(accur10) + 1)
plt.plot(epochs, accur10, "bo", label="Training accuracy")
plt.plot(epochs, val_accur10, "b", label="Validation accuracy")
plt.title("Training and validation accuracy")
plt.legend()
plt.figure()
plt.figure(figsize=(10, 10))
plt.plot(epochs, loss10, "bo", label="Training loss")
plt.plot(epochs, val_loss10, "b", label="Validation loss")
plt.title("Training and validation loss")
plt.legend()
plt.show()
```



<Figure size 640x480 with 0 Axes>

## Training and validation loss



```
In [17]: tesacc10 = keras.models.load_model("convnet_from_scratch.keras")
test_loss, test_acc = tesacc10.evaluate(testing_data)
print(f"Test accuracy: {test_acc:.3f}")
```

```
32/32 [=====] - 1s 9ms/step - loss: 0.5348 - accuracy: 0.719
0
Test accuracy: 0.719
```

Test accuracy with no data augmentation is about 71.9% when the Training accuracy is about 99.8%.

Q2. Increase your training sample size. You may pick any amount. Keep the validation and test samples the same as above. Optimize your network (again training from scratch). What performance did you achieve?

Define a data augmentation stage to add to an image model

```
In [19]: import os, shutil, pathlib

shutil.rmtree("./cats_vs_dogs_small_Q2", ignore_errors=True)

original_dir = pathlib.Path("train")
new_base_dir = pathlib.Path("cats_vs_dogs_small_Q2")

def make_subset(subset_name, start_index, end_index):
    for category in ("cat", "dog"):
        dir = new_base_dir / subset_name / category
        os.makedirs(dir)
        fnames = [f"{category}.{i}.jpg" for i in range(start_index, end_index)]
        for fname in fnames:
            shutil.copyfile(src=original_dir / fname,
                            dst=dir / fname)
#Creating training, Test and validation sets.
#Training has 1500 samples, test has 500 samples and validation has 500 samples.
make_subset("train", start_index=667, end_index=2167)
make_subset("validation", start_index=2168, end_index=2668)
make_subset("test", start_index=2669, end_index=3168)
```

```
In [20]: augmented_data = keras.Sequential(
    [
        layers.RandomFlip("horizontal"),
        layers.RandomRotation(0.1),
        layers.RandomZoom(0.2),
    ]
)
```

```
In [21]: plt.figure(figsize=(10, 10))
for images, _ in training_data.take(1):
    for i in range(9):
        augmented_picss = augmented_data(images)
        ax = plt.subplot(3, 3, i + 1)
        plt.imshow(augmented_picss[0].numpy().astype("uint8"))
        plt.axis("off")
```



### Novel convolutional neural network with image enhancement and dropout

```
In [12]:  
in15 = keras.Input(shape=(180, 180, 3))  
mad2 = augmented_data(in15)  
mad2 = layers.Rescaling(1./255)(mad2)  
mad2 = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(mad2)  
mad2 = layers.MaxPooling2D(pool_size=2)(mad2)  
mad2 = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(mad2)  
mad2 = layers.MaxPooling2D(pool_size=2)(mad2)  
mad2 = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(mad2)  
mad2 = layers.MaxPooling2D(pool_size=2)(mad2)  
mad2 = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(mad2)  
mad2 = layers.MaxPooling2D(pool_size=2)(mad2)  
mad2 = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(mad2)  
mad2 = layers.Flatten()(mad2)  
mad2 = layers.Dropout(0.5)(mad2)  
out15 = layers.Dense(1, activation="sigmoid")(mad2)  
mode15 = keras.Model(inputs=in15, outputs=out15)  
  
mode15.compile(loss="binary_crossentropy",
```

```
optimizer="adam",
metrics=["accuracy"])
```

```
In [23]: callbac15 = [
    keras.callbacks.ModelCheckpoint(
        filepath="convnet_from_scratch_with_augmented_data.keras",
        save_best_only=True,
        monitor="val_loss")
]
history15 = mode15.fit(
    training_data,
    epochs=200,
    validation_data=valid_data,
    callbacks=callbac15)
```

```
Epoch 1/200
63/63 [=====] - 4s 27ms/step - loss: 0.6961 - accuracy: 0.49
50 - val_loss: 0.6916 - val_accuracy: 0.5310
Epoch 2/200
63/63 [=====] - 1s 22ms/step - loss: 0.6935 - accuracy: 0.50
10 - val_loss: 0.6931 - val_accuracy: 0.5000
Epoch 3/200
63/63 [=====] - 2s 24ms/step - loss: 0.6950 - accuracy: 0.52
70 - val_loss: 0.6851 - val_accuracy: 0.5340
Epoch 4/200
63/63 [=====] - 2s 24ms/step - loss: 0.6905 - accuracy: 0.52
80 - val_loss: 0.6821 - val_accuracy: 0.5740
Epoch 5/200
63/63 [=====] - 2s 23ms/step - loss: 0.6821 - accuracy: 0.55
50 - val_loss: 0.6786 - val_accuracy: 0.5580
Epoch 6/200
63/63 [=====] - 2s 24ms/step - loss: 0.6855 - accuracy: 0.55
35 - val_loss: 0.6745 - val_accuracy: 0.5760
Epoch 7/200
63/63 [=====] - 2s 24ms/step - loss: 0.6770 - accuracy: 0.57
95 - val_loss: 0.6727 - val_accuracy: 0.5950
Epoch 8/200
63/63 [=====] - 2s 25ms/step - loss: 0.6707 - accuracy: 0.61
35 - val_loss: 0.6449 - val_accuracy: 0.6380
Epoch 9/200
63/63 [=====] - 2s 23ms/step - loss: 0.6694 - accuracy: 0.60
80 - val_loss: 0.6714 - val_accuracy: 0.5620
Epoch 10/200
63/63 [=====] - 2s 24ms/step - loss: 0.6573 - accuracy: 0.62
20 - val_loss: 0.6426 - val_accuracy: 0.6300
Epoch 11/200
63/63 [=====] - 2s 25ms/step - loss: 0.6436 - accuracy: 0.63
80 - val_loss: 0.6222 - val_accuracy: 0.6560
Epoch 12/200
63/63 [=====] - 1s 23ms/step - loss: 0.6386 - accuracy: 0.64
20 - val_loss: 0.6228 - val_accuracy: 0.6620
Epoch 13/200
63/63 [=====] - 2s 24ms/step - loss: 0.6218 - accuracy: 0.67
80 - val_loss: 0.6103 - val_accuracy: 0.6710
Epoch 14/200
63/63 [=====] - 2s 24ms/step - loss: 0.6278 - accuracy: 0.65
70 - val_loss: 0.5974 - val_accuracy: 0.6860
Epoch 15/200
63/63 [=====] - 2s 24ms/step - loss: 0.6069 - accuracy: 0.67
80 - val_loss: 0.5864 - val_accuracy: 0.6900
Epoch 16/200
63/63 [=====] - 1s 23ms/step - loss: 0.5844 - accuracy: 0.69
55 - val_loss: 0.5880 - val_accuracy: 0.6920
Epoch 17/200
63/63 [=====] - 2s 24ms/step - loss: 0.6009 - accuracy: 0.67
45 - val_loss: 0.5666 - val_accuracy: 0.7070
Epoch 18/200
63/63 [=====] - 1s 22ms/step - loss: 0.5715 - accuracy: 0.70
90 - val_loss: 0.6161 - val_accuracy: 0.6830
Epoch 19/200
63/63 [=====] - 2s 23ms/step - loss: 0.5587 - accuracy: 0.70
45 - val_loss: 0.5956 - val_accuracy: 0.6950
Epoch 20/200
63/63 [=====] - 2s 25ms/step - loss: 0.5391 - accuracy: 0.72
25 - val_loss: 0.5550 - val_accuracy: 0.7270
```

```
Epoch 21/200
63/63 [=====] - 2s 25ms/step - loss: 0.5169 - accuracy: 0.74
70 - val_loss: 0.5445 - val_accuracy: 0.7380
Epoch 22/200
63/63 [=====] - 2s 23ms/step - loss: 0.5418 - accuracy: 0.73
85 - val_loss: 0.6437 - val_accuracy: 0.6760
Epoch 23/200
63/63 [=====] - 2s 25ms/step - loss: 0.5329 - accuracy: 0.74
85 - val_loss: 0.5270 - val_accuracy: 0.7380
Epoch 24/200
63/63 [=====] - 1s 22ms/step - loss: 0.4982 - accuracy: 0.75
15 - val_loss: 0.5646 - val_accuracy: 0.7390
Epoch 25/200
63/63 [=====] - 2s 24ms/step - loss: 0.4885 - accuracy: 0.76
85 - val_loss: 0.5238 - val_accuracy: 0.7560
Epoch 26/200
63/63 [=====] - 1s 22ms/step - loss: 0.4776 - accuracy: 0.76
80 - val_loss: 0.5619 - val_accuracy: 0.7350
Epoch 27/200
63/63 [=====] - 2s 24ms/step - loss: 0.4645 - accuracy: 0.78
48 - val_loss: 0.4862 - val_accuracy: 0.7790
Epoch 28/200
63/63 [=====] - 1s 22ms/step - loss: 0.4761 - accuracy: 0.76
10 - val_loss: 0.5579 - val_accuracy: 0.7330
Epoch 29/200
63/63 [=====] - 1s 22ms/step - loss: 0.4527 - accuracy: 0.78
65 - val_loss: 0.5601 - val_accuracy: 0.7440
Epoch 30/200
63/63 [=====] - 2s 23ms/step - loss: 0.4478 - accuracy: 0.78
25 - val_loss: 0.5616 - val_accuracy: 0.7530
Epoch 31/200
63/63 [=====] - 2s 23ms/step - loss: 0.4427 - accuracy: 0.79
85 - val_loss: 0.6070 - val_accuracy: 0.7350
Epoch 32/200
63/63 [=====] - 2s 25ms/step - loss: 0.4461 - accuracy: 0.79
55 - val_loss: 0.4630 - val_accuracy: 0.7850
Epoch 33/200
63/63 [=====] - 2s 24ms/step - loss: 0.4356 - accuracy: 0.80
20 - val_loss: 0.4579 - val_accuracy: 0.7950
Epoch 34/200
63/63 [=====] - 2s 23ms/step - loss: 0.4114 - accuracy: 0.80
55 - val_loss: 0.4965 - val_accuracy: 0.7650
Epoch 35/200
63/63 [=====] - 2s 23ms/step - loss: 0.4365 - accuracy: 0.79
35 - val_loss: 0.5301 - val_accuracy: 0.7540
Epoch 36/200
63/63 [=====] - 1s 23ms/step - loss: 0.4055 - accuracy: 0.81
25 - val_loss: 0.4661 - val_accuracy: 0.7940
Epoch 37/200
63/63 [=====] - 1s 23ms/step - loss: 0.3884 - accuracy: 0.82
70 - val_loss: 0.4798 - val_accuracy: 0.7890
Epoch 38/200
63/63 [=====] - 1s 23ms/step - loss: 0.3903 - accuracy: 0.81
90 - val_loss: 0.5245 - val_accuracy: 0.7790
Epoch 39/200
63/63 [=====] - 2s 24ms/step - loss: 0.3829 - accuracy: 0.82
55 - val_loss: 0.4384 - val_accuracy: 0.8100
Epoch 40/200
63/63 [=====] - 1s 22ms/step - loss: 0.3771 - accuracy: 0.82
35 - val_loss: 0.6656 - val_accuracy: 0.7390
```

```
Epoch 41/200
63/63 [=====] - 1s 22ms/step - loss: 0.3579 - accuracy: 0.84
20 - val_loss: 0.4613 - val_accuracy: 0.8050
Epoch 42/200
63/63 [=====] - 1s 23ms/step - loss: 0.3546 - accuracy: 0.83
45 - val_loss: 0.4622 - val_accuracy: 0.7900
Epoch 43/200
63/63 [=====] - 2s 23ms/step - loss: 0.3466 - accuracy: 0.84
68 - val_loss: 0.4957 - val_accuracy: 0.7880
Epoch 44/200
63/63 [=====] - 2s 23ms/step - loss: 0.3522 - accuracy: 0.83
95 - val_loss: 0.5235 - val_accuracy: 0.7860
Epoch 45/200
63/63 [=====] - 2s 23ms/step - loss: 0.3570 - accuracy: 0.83
75 - val_loss: 0.4460 - val_accuracy: 0.8160
Epoch 46/200
63/63 [=====] - 2s 23ms/step - loss: 0.3449 - accuracy: 0.84
70 - val_loss: 0.4512 - val_accuracy: 0.8170
Epoch 47/200
63/63 [=====] - 2s 23ms/step - loss: 0.3331 - accuracy: 0.85
15 - val_loss: 0.4716 - val_accuracy: 0.8160
Epoch 48/200
63/63 [=====] - 1s 22ms/step - loss: 0.3151 - accuracy: 0.86
55 - val_loss: 0.4619 - val_accuracy: 0.8170
Epoch 49/200
63/63 [=====] - 1s 22ms/step - loss: 0.3223 - accuracy: 0.85
75 - val_loss: 0.5876 - val_accuracy: 0.7820
Epoch 50/200
63/63 [=====] - 1s 23ms/step - loss: 0.3076 - accuracy: 0.86
80 - val_loss: 0.4551 - val_accuracy: 0.8060
Epoch 51/200
63/63 [=====] - 1s 22ms/step - loss: 0.2913 - accuracy: 0.88
85 - val_loss: 0.4834 - val_accuracy: 0.8040
Epoch 52/200
63/63 [=====] - 1s 23ms/step - loss: 0.3217 - accuracy: 0.86
95 - val_loss: 0.4792 - val_accuracy: 0.7960
Epoch 53/200
63/63 [=====] - 1s 23ms/step - loss: 0.3043 - accuracy: 0.86
20 - val_loss: 0.4390 - val_accuracy: 0.8120
Epoch 54/200
63/63 [=====] - 1s 23ms/step - loss: 0.2773 - accuracy: 0.87
50 - val_loss: 0.5780 - val_accuracy: 0.7710
Epoch 55/200
63/63 [=====] - 2s 23ms/step - loss: 0.2913 - accuracy: 0.87
65 - val_loss: 0.4435 - val_accuracy: 0.8230
Epoch 56/200
63/63 [=====] - 2s 23ms/step - loss: 0.2647 - accuracy: 0.88
95 - val_loss: 0.4753 - val_accuracy: 0.8090
Epoch 57/200
63/63 [=====] - 2s 24ms/step - loss: 0.2742 - accuracy: 0.87
50 - val_loss: 0.5084 - val_accuracy: 0.8140
Epoch 58/200
63/63 [=====] - 2s 26ms/step - loss: 0.2792 - accuracy: 0.87
45 - val_loss: 0.4299 - val_accuracy: 0.8190
Epoch 59/200
63/63 [=====] - 2s 24ms/step - loss: 0.2701 - accuracy: 0.88
45 - val_loss: 0.5879 - val_accuracy: 0.8110
Epoch 60/200
63/63 [=====] - 2s 23ms/step - loss: 0.2688 - accuracy: 0.88
95 - val_loss: 0.4403 - val_accuracy: 0.8190
```

```
Epoch 61/200
63/63 [=====] - 2s 24ms/step - loss: 0.2588 - accuracy: 0.88
95 - val_loss: 0.5430 - val_accuracy: 0.7950
Epoch 62/200
63/63 [=====] - 1s 23ms/step - loss: 0.2547 - accuracy: 0.88
25 - val_loss: 0.4776 - val_accuracy: 0.8890
Epoch 63/200
63/63 [=====] - 1s 22ms/step - loss: 0.2353 - accuracy: 0.90
15 - val_loss: 0.4915 - val_accuracy: 0.8240
Epoch 64/200
63/63 [=====] - 1s 22ms/step - loss: 0.2426 - accuracy: 0.90
40 - val_loss: 0.4970 - val_accuracy: 0.8210
Epoch 65/200
63/63 [=====] - 1s 22ms/step - loss: 0.2417 - accuracy: 0.90
30 - val_loss: 0.4579 - val_accuracy: 0.8180
Epoch 66/200
63/63 [=====] - 2s 23ms/step - loss: 0.2159 - accuracy: 0.90
25 - val_loss: 0.5329 - val_accuracy: 0.8110
Epoch 67/200
63/63 [=====] - 2s 23ms/step - loss: 0.2318 - accuracy: 0.90
45 - val_loss: 0.4805 - val_accuracy: 0.8100
Epoch 68/200
63/63 [=====] - 2s 24ms/step - loss: 0.2387 - accuracy: 0.90
45 - val_loss: 0.4694 - val_accuracy: 0.8130
Epoch 69/200
63/63 [=====] - 2s 23ms/step - loss: 0.2222 - accuracy: 0.90
25 - val_loss: 0.4687 - val_accuracy: 0.8070
Epoch 70/200
63/63 [=====] - 2s 23ms/step - loss: 0.2206 - accuracy: 0.91
15 - val_loss: 0.4662 - val_accuracy: 0.8120
Epoch 71/200
63/63 [=====] - 2s 23ms/step - loss: 0.2203 - accuracy: 0.91
05 - val_loss: 0.4687 - val_accuracy: 0.8140
Epoch 72/200
63/63 [=====] - 1s 23ms/step - loss: 0.2036 - accuracy: 0.92
15 - val_loss: 0.6475 - val_accuracy: 0.7960
Epoch 73/200
63/63 [=====] - 1s 23ms/step - loss: 0.1905 - accuracy: 0.91
30 - val_loss: 0.4941 - val_accuracy: 0.8180
Epoch 74/200
63/63 [=====] - 1s 22ms/step - loss: 0.1879 - accuracy: 0.92
25 - val_loss: 0.5220 - val_accuracy: 0.8270
Epoch 75/200
63/63 [=====] - 1s 23ms/step - loss: 0.2037 - accuracy: 0.91
25 - val_loss: 0.5329 - val_accuracy: 0.8180
Epoch 76/200
63/63 [=====] - 2s 23ms/step - loss: 0.1959 - accuracy: 0.92
00 - val_loss: 0.5262 - val_accuracy: 0.8290
Epoch 77/200
63/63 [=====] - 2s 23ms/step - loss: 0.2120 - accuracy: 0.91
00 - val_loss: 0.4940 - val_accuracy: 0.8130
Epoch 78/200
63/63 [=====] - 2s 23ms/step - loss: 0.2030 - accuracy: 0.91
50 - val_loss: 0.4825 - val_accuracy: 0.8170
Epoch 79/200
63/63 [=====] - 2s 23ms/step - loss: 0.1865 - accuracy: 0.92
15 - val_loss: 0.5058 - val_accuracy: 0.8210
Epoch 80/200
63/63 [=====] - 2s 23ms/step - loss: 0.1886 - accuracy: 0.92
15 - val_loss: 0.5270 - val_accuracy: 0.8130
```

```
Epoch 81/200
63/63 [=====] - 2s 23ms/step - loss: 0.1952 - accuracy: 0.91
75 - val_loss: 0.5721 - val_accuracy: 0.8050
Epoch 82/200
63/63 [=====] - 2s 23ms/step - loss: 0.1690 - accuracy: 0.93
15 - val_loss: 0.5184 - val_accuracy: 0.8280
Epoch 83/200
63/63 [=====] - 2s 23ms/step - loss: 0.1810 - accuracy: 0.92
95 - val_loss: 0.5344 - val_accuracy: 0.8090
Epoch 84/200
63/63 [=====] - 1s 22ms/step - loss: 0.1807 - accuracy: 0.92
88 - val_loss: 0.5345 - val_accuracy: 0.8070
Epoch 85/200
63/63 [=====] - 1s 22ms/step - loss: 0.1762 - accuracy: 0.92
65 - val_loss: 0.5535 - val_accuracy: 0.8300
Epoch 86/200
63/63 [=====] - 1s 22ms/step - loss: 0.1566 - accuracy: 0.93
05 - val_loss: 0.5460 - val_accuracy: 0.8240
Epoch 87/200
63/63 [=====] - 1s 22ms/step - loss: 0.1828 - accuracy: 0.91
80 - val_loss: 0.5396 - val_accuracy: 0.8220
Epoch 88/200
63/63 [=====] - 1s 22ms/step - loss: 0.1689 - accuracy: 0.93
65 - val_loss: 0.5575 - val_accuracy: 0.8320
Epoch 89/200
63/63 [=====] - 1s 23ms/step - loss: 0.1556 - accuracy: 0.94
15 - val_loss: 0.5436 - val_accuracy: 0.8040
Epoch 90/200
63/63 [=====] - 2s 23ms/step - loss: 0.1544 - accuracy: 0.94
05 - val_loss: 0.4881 - val_accuracy: 0.8260
Epoch 91/200
63/63 [=====] - 2s 23ms/step - loss: 0.1411 - accuracy: 0.94
30 - val_loss: 0.5541 - val_accuracy: 0.8230
Epoch 92/200
63/63 [=====] - 2s 24ms/step - loss: 0.1556 - accuracy: 0.94
15 - val_loss: 0.5754 - val_accuracy: 0.8090
Epoch 93/200
63/63 [=====] - 2s 23ms/step - loss: 0.2186 - accuracy: 0.91
00 - val_loss: 0.4755 - val_accuracy: 0.8400
Epoch 94/200
63/63 [=====] - 2s 23ms/step - loss: 0.1482 - accuracy: 0.93
75 - val_loss: 0.5075 - val_accuracy: 0.8360
Epoch 95/200
63/63 [=====] - 2s 23ms/step - loss: 0.1414 - accuracy: 0.93
60 - val_loss: 0.5620 - val_accuracy: 0.8280
Epoch 96/200
63/63 [=====] - 1s 22ms/step - loss: 0.1490 - accuracy: 0.93
95 - val_loss: 0.5655 - val_accuracy: 0.8150
Epoch 97/200
63/63 [=====] - 1s 22ms/step - loss: 0.1571 - accuracy: 0.93
95 - val_loss: 0.6815 - val_accuracy: 0.8010
Epoch 98/200
63/63 [=====] - 1s 22ms/step - loss: 0.1575 - accuracy: 0.93
40 - val_loss: 0.5590 - val_accuracy: 0.8310
Epoch 99/200
63/63 [=====] - 1s 23ms/step - loss: 0.1515 - accuracy: 0.94
00 - val_loss: 0.6894 - val_accuracy: 0.8150
Epoch 100/200
63/63 [=====] - 1s 23ms/step - loss: 0.1584 - accuracy: 0.94
70 - val_loss: 0.6028 - val_accuracy: 0.8280
```

```
Epoch 101/200
63/63 [=====] - 1s 22ms/step - loss: 0.1283 - accuracy: 0.94
80 - val_loss: 0.5719 - val_accuracy: 0.8130
Epoch 102/200
63/63 [=====] - 1s 22ms/step - loss: 0.1340 - accuracy: 0.94
35 - val_loss: 0.5766 - val_accuracy: 0.8260
Epoch 103/200
63/63 [=====] - 2s 23ms/step - loss: 0.1388 - accuracy: 0.94
65 - val_loss: 0.6291 - val_accuracy: 0.8170
Epoch 104/200
63/63 [=====] - 2s 23ms/step - loss: 0.1472 - accuracy: 0.94
40 - val_loss: 0.6263 - val_accuracy: 0.8230
Epoch 105/200
63/63 [=====] - 2s 23ms/step - loss: 0.1185 - accuracy: 0.95
05 - val_loss: 0.5294 - val_accuracy: 0.8340
Epoch 106/200
63/63 [=====] - 2s 23ms/step - loss: 0.1178 - accuracy: 0.95
40 - val_loss: 0.5672 - val_accuracy: 0.8200
Epoch 107/200
63/63 [=====] - 2s 23ms/step - loss: 0.1158 - accuracy: 0.95
30 - val_loss: 0.5910 - val_accuracy: 0.8390
Epoch 108/200
63/63 [=====] - 1s 22ms/step - loss: 0.1184 - accuracy: 0.95
25 - val_loss: 0.5997 - val_accuracy: 0.8330
Epoch 109/200
63/63 [=====] - 1s 22ms/step - loss: 0.1288 - accuracy: 0.95
35 - val_loss: 0.6410 - val_accuracy: 0.8230
Epoch 110/200
63/63 [=====] - 1s 22ms/step - loss: 0.1312 - accuracy: 0.95
10 - val_loss: 0.5949 - val_accuracy: 0.8190
Epoch 111/200
63/63 [=====] - 1s 22ms/step - loss: 0.1029 - accuracy: 0.95
85 - val_loss: 0.5750 - val_accuracy: 0.8410
Epoch 112/200
63/63 [=====] - 2s 23ms/step - loss: 0.1254 - accuracy: 0.95
15 - val_loss: 0.5450 - val_accuracy: 0.8290
Epoch 113/200
63/63 [=====] - 1s 23ms/step - loss: 0.1381 - accuracy: 0.94
65 - val_loss: 0.6390 - val_accuracy: 0.8320
Epoch 114/200
63/63 [=====] - 1s 23ms/step - loss: 0.1091 - accuracy: 0.95
90 - val_loss: 0.5401 - val_accuracy: 0.8400
Epoch 115/200
63/63 [=====] - 2s 24ms/step - loss: 0.1006 - accuracy: 0.96
00 - val_loss: 0.5780 - val_accuracy: 0.8460
Epoch 116/200
63/63 [=====] - 2s 23ms/step - loss: 0.1080 - accuracy: 0.95
75 - val_loss: 0.5793 - val_accuracy: 0.8500
Epoch 117/200
63/63 [=====] - 2s 23ms/step - loss: 0.1059 - accuracy: 0.96
00 - val_loss: 0.6039 - val_accuracy: 0.8290
Epoch 118/200
63/63 [=====] - 2s 23ms/step - loss: 0.1055 - accuracy: 0.96
00 - val_loss: 0.5723 - val_accuracy: 0.8420
Epoch 119/200
63/63 [=====] - 2s 23ms/step - loss: 0.1056 - accuracy: 0.96
25 - val_loss: 0.5889 - val_accuracy: 0.8380
Epoch 120/200
63/63 [=====] - 1s 23ms/step - loss: 0.0980 - accuracy: 0.96
25 - val_loss: 0.6719 - val_accuracy: 0.8200
```

```
Epoch 121/200
63/63 [=====] - 1s 22ms/step - loss: 0.1109 - accuracy: 0.95
55 - val_loss: 0.7214 - val_accuracy: 0.8210
Epoch 122/200
63/63 [=====] - 1s 22ms/step - loss: 0.1219 - accuracy: 0.95
20 - val_loss: 0.6245 - val_accuracy: 0.8300
Epoch 123/200
63/63 [=====] - 1s 23ms/step - loss: 0.1390 - accuracy: 0.94
25 - val_loss: 0.7107 - val_accuracy: 0.8260
Epoch 124/200
63/63 [=====] - 1s 22ms/step - loss: 0.0952 - accuracy: 0.96
15 - val_loss: 0.6496 - val_accuracy: 0.8480
Epoch 125/200
63/63 [=====] - 1s 22ms/step - loss: 0.1124 - accuracy: 0.95
55 - val_loss: 0.6476 - val_accuracy: 0.8390
Epoch 126/200
63/63 [=====] - 1s 22ms/step - loss: 0.1203 - accuracy: 0.95
50 - val_loss: 0.6245 - val_accuracy: 0.8400
Epoch 127/200
63/63 [=====] - 1s 23ms/step - loss: 0.1118 - accuracy: 0.95
80 - val_loss: 0.5903 - val_accuracy: 0.8450
Epoch 128/200
63/63 [=====] - 2s 23ms/step - loss: 0.0967 - accuracy: 0.96
55 - val_loss: 0.6606 - val_accuracy: 0.8290
Epoch 129/200
63/63 [=====] - 2s 23ms/step - loss: 0.0967 - accuracy: 0.96
35 - val_loss: 0.7591 - val_accuracy: 0.8460
Epoch 130/200
63/63 [=====] - 2s 24ms/step - loss: 0.0995 - accuracy: 0.96
30 - val_loss: 0.6108 - val_accuracy: 0.8460
Epoch 131/200
63/63 [=====] - 2s 23ms/step - loss: 0.1086 - accuracy: 0.95
80 - val_loss: 0.7499 - val_accuracy: 0.8300
Epoch 132/200
63/63 [=====] - 1s 22ms/step - loss: 0.0796 - accuracy: 0.97
25 - val_loss: 0.7022 - val_accuracy: 0.8470
Epoch 133/200
63/63 [=====] - 1s 22ms/step - loss: 0.1077 - accuracy: 0.95
95 - val_loss: 0.7997 - val_accuracy: 0.8110
Epoch 134/200
63/63 [=====] - 1s 23ms/step - loss: 0.1155 - accuracy: 0.95
55 - val_loss: 0.7311 - val_accuracy: 0.8250
Epoch 135/200
63/63 [=====] - 1s 22ms/step - loss: 0.0773 - accuracy: 0.97
10 - val_loss: 0.6934 - val_accuracy: 0.8550
Epoch 136/200
63/63 [=====] - 1s 23ms/step - loss: 0.1028 - accuracy: 0.95
75 - val_loss: 0.7291 - val_accuracy: 0.8390
Epoch 137/200
63/63 [=====] - 1s 22ms/step - loss: 0.1026 - accuracy: 0.95
90 - val_loss: 0.6979 - val_accuracy: 0.8220
Epoch 138/200
63/63 [=====] - 2s 23ms/step - loss: 0.0888 - accuracy: 0.96
80 - val_loss: 0.7722 - val_accuracy: 0.8430
Epoch 139/200
63/63 [=====] - 2s 23ms/step - loss: 0.1194 - accuracy: 0.95
55 - val_loss: 0.6864 - val_accuracy: 0.8520
Epoch 140/200
63/63 [=====] - 2s 24ms/step - loss: 0.0851 - accuracy: 0.96
95 - val_loss: 0.6835 - val_accuracy: 0.8410
```

```
Epoch 141/200
63/63 [=====] - 2s 23ms/step - loss: 0.1349 - accuracy: 0.95
20 - val_loss: 0.6086 - val_accuracy: 0.8280
Epoch 142/200
63/63 [=====] - 2s 24ms/step - loss: 0.1073 - accuracy: 0.95
45 - val_loss: 0.6386 - val_accuracy: 0.8430
Epoch 143/200
63/63 [=====] - 2s 23ms/step - loss: 0.1014 - accuracy: 0.96
45 - val_loss: 0.6491 - val_accuracy: 0.8410
Epoch 144/200
63/63 [=====] - 1s 22ms/step - loss: 0.1457 - accuracy: 0.95
20 - val_loss: 0.5843 - val_accuracy: 0.8370
Epoch 145/200
63/63 [=====] - 1s 23ms/step - loss: 0.0746 - accuracy: 0.97
35 - val_loss: 0.6471 - val_accuracy: 0.8480
Epoch 146/200
63/63 [=====] - 2s 23ms/step - loss: 0.0801 - accuracy: 0.97
05 - val_loss: 0.6454 - val_accuracy: 0.8540
Epoch 147/200
63/63 [=====] - 1s 22ms/step - loss: 0.0939 - accuracy: 0.96
65 - val_loss: 0.6857 - val_accuracy: 0.8410
Epoch 148/200
63/63 [=====] - 1s 22ms/step - loss: 0.0976 - accuracy: 0.96
70 - val_loss: 0.6180 - val_accuracy: 0.8460
Epoch 149/200
63/63 [=====] - 1s 23ms/step - loss: 0.1101 - accuracy: 0.96
00 - val_loss: 0.6779 - val_accuracy: 0.8390
Epoch 150/200
63/63 [=====] - 1s 22ms/step - loss: 0.0886 - accuracy: 0.96
35 - val_loss: 0.6574 - val_accuracy: 0.8400
Epoch 151/200
63/63 [=====] - 2s 23ms/step - loss: 0.0657 - accuracy: 0.97
90 - val_loss: 0.6633 - val_accuracy: 0.8480
Epoch 152/200
63/63 [=====] - 2s 24ms/step - loss: 0.0669 - accuracy: 0.97
70 - val_loss: 0.6756 - val_accuracy: 0.8460
Epoch 153/200
63/63 [=====] - 2s 24ms/step - loss: 0.0623 - accuracy: 0.97
55 - val_loss: 0.7379 - val_accuracy: 0.8440
Epoch 154/200
63/63 [=====] - 2s 24ms/step - loss: 0.0947 - accuracy: 0.96
25 - val_loss: 0.7081 - val_accuracy: 0.8400
Epoch 155/200
63/63 [=====] - 2s 24ms/step - loss: 0.0843 - accuracy: 0.96
95 - val_loss: 0.7196 - val_accuracy: 0.8420
Epoch 156/200
63/63 [=====] - 2s 23ms/step - loss: 0.0606 - accuracy: 0.97
40 - val_loss: 0.6796 - val_accuracy: 0.8560
Epoch 157/200
63/63 [=====] - 1s 22ms/step - loss: 0.0697 - accuracy: 0.97
10 - val_loss: 0.7493 - val_accuracy: 0.8520
Epoch 158/200
63/63 [=====] - 2s 23ms/step - loss: 0.0782 - accuracy: 0.97
25 - val_loss: 0.8540 - val_accuracy: 0.8200
Epoch 159/200
63/63 [=====] - 2s 23ms/step - loss: 0.0811 - accuracy: 0.96
65 - val_loss: 0.7490 - val_accuracy: 0.8370
Epoch 160/200
63/63 [=====] - 2s 23ms/step - loss: 0.1116 - accuracy: 0.95
65 - val_loss: 0.7859 - val_accuracy: 0.8310
```

```
Epoch 161/200
63/63 [=====] - 2s 23ms/step - loss: 0.1229 - accuracy: 0.96
05 - val_loss: 0.5585 - val_accuracy: 0.8420
Epoch 162/200
63/63 [=====] - 2s 23ms/step - loss: 0.0838 - accuracy: 0.97
05 - val_loss: 0.5986 - val_accuracy: 0.8470
Epoch 163/200
63/63 [=====] - 2s 24ms/step - loss: 0.0881 - accuracy: 0.96
95 - val_loss: 0.6396 - val_accuracy: 0.8520
Epoch 164/200
63/63 [=====] - 2s 24ms/step - loss: 0.0913 - accuracy: 0.96
60 - val_loss: 0.7009 - val_accuracy: 0.8540
Epoch 165/200
63/63 [=====] - 2s 24ms/step - loss: 0.0779 - accuracy: 0.97
35 - val_loss: 0.5902 - val_accuracy: 0.8580
Epoch 166/200
63/63 [=====] - 2s 24ms/step - loss: 0.0727 - accuracy: 0.97
00 - val_loss: 0.6243 - val_accuracy: 0.8420
Epoch 167/200
63/63 [=====] - 2s 24ms/step - loss: 0.0851 - accuracy: 0.96
75 - val_loss: 0.6269 - val_accuracy: 0.8480
Epoch 168/200
63/63 [=====] - 2s 25ms/step - loss: 0.0882 - accuracy: 0.97
00 - val_loss: 0.6579 - val_accuracy: 0.8530
Epoch 169/200
63/63 [=====] - 2s 24ms/step - loss: 0.0783 - accuracy: 0.97
20 - val_loss: 0.6992 - val_accuracy: 0.8520
Epoch 170/200
63/63 [=====] - 2s 24ms/step - loss: 0.0815 - accuracy: 0.97
15 - val_loss: 0.6938 - val_accuracy: 0.8390
Epoch 171/200
63/63 [=====] - 2s 24ms/step - loss: 0.0755 - accuracy: 0.97
40 - val_loss: 0.6284 - val_accuracy: 0.8500
Epoch 172/200
63/63 [=====] - 2s 24ms/step - loss: 0.0947 - accuracy: 0.96
55 - val_loss: 0.6696 - val_accuracy: 0.8330
Epoch 173/200
63/63 [=====] - 2s 24ms/step - loss: 0.0761 - accuracy: 0.97
05 - val_loss: 0.6908 - val_accuracy: 0.8340
Epoch 174/200
63/63 [=====] - 2s 23ms/step - loss: 0.0824 - accuracy: 0.97
10 - val_loss: 0.7351 - val_accuracy: 0.8340
Epoch 175/200
63/63 [=====] - 2s 23ms/step - loss: 0.0846 - accuracy: 0.97
10 - val_loss: 0.6857 - val_accuracy: 0.8330
Epoch 176/200
63/63 [=====] - 2s 24ms/step - loss: 0.1149 - accuracy: 0.95
65 - val_loss: 0.6691 - val_accuracy: 0.8450
Epoch 177/200
63/63 [=====] - 2s 24ms/step - loss: 0.0976 - accuracy: 0.96
45 - val_loss: 0.5903 - val_accuracy: 0.8480
Epoch 178/200
63/63 [=====] - 2s 23ms/step - loss: 0.0638 - accuracy: 0.97
80 - val_loss: 0.7196 - val_accuracy: 0.8610
Epoch 179/200
63/63 [=====] - 2s 23ms/step - loss: 0.0838 - accuracy: 0.96
70 - val_loss: 0.7117 - val_accuracy: 0.8540
Epoch 180/200
63/63 [=====] - 2s 23ms/step - loss: 0.0636 - accuracy: 0.97
90 - val_loss: 0.7766 - val_accuracy: 0.8430
```

```
Epoch 181/200
63/63 [=====] - 1s 23ms/step - loss: 0.0787 - accuracy: 0.96
65 - val_loss: 0.7986 - val_accuracy: 0.8500
Epoch 182/200
63/63 [=====] - 1s 22ms/step - loss: 0.0700 - accuracy: 0.97
65 - val_loss: 0.7893 - val_accuracy: 0.8660
Epoch 183/200
63/63 [=====] - 1s 23ms/step - loss: 0.0708 - accuracy: 0.97
15 - val_loss: 0.7431 - val_accuracy: 0.8470
Epoch 184/200
63/63 [=====] - 2s 23ms/step - loss: 0.0697 - accuracy: 0.97
30 - val_loss: 0.8703 - val_accuracy: 0.8270
Epoch 185/200
63/63 [=====] - 1s 22ms/step - loss: 0.0635 - accuracy: 0.97
65 - val_loss: 0.7316 - val_accuracy: 0.8380
Epoch 186/200
63/63 [=====] - 2s 23ms/step - loss: 0.0808 - accuracy: 0.97
65 - val_loss: 0.6939 - val_accuracy: 0.8560
Epoch 187/200
63/63 [=====] - 2s 23ms/step - loss: 0.0853 - accuracy: 0.96
50 - val_loss: 0.6779 - val_accuracy: 0.8530
Epoch 188/200
63/63 [=====] - 2s 24ms/step - loss: 0.0630 - accuracy: 0.98
15 - val_loss: 0.7622 - val_accuracy: 0.8410
Epoch 189/200
63/63 [=====] - 2s 23ms/step - loss: 0.0579 - accuracy: 0.97
65 - val_loss: 0.6896 - val_accuracy: 0.8450
Epoch 190/200
63/63 [=====] - 2s 24ms/step - loss: 0.0567 - accuracy: 0.98
10 - val_loss: 0.7267 - val_accuracy: 0.8430
Epoch 191/200
63/63 [=====] - 2s 23ms/step - loss: 0.0589 - accuracy: 0.97
70 - val_loss: 0.7531 - val_accuracy: 0.8660
Epoch 192/200
63/63 [=====] - 2s 23ms/step - loss: 0.0648 - accuracy: 0.97
40 - val_loss: 0.6302 - val_accuracy: 0.8720
Epoch 193/200
63/63 [=====] - 1s 22ms/step - loss: 0.0639 - accuracy: 0.97
85 - val_loss: 0.7206 - val_accuracy: 0.8650
Epoch 194/200
63/63 [=====] - 1s 22ms/step - loss: 0.0500 - accuracy: 0.98
15 - val_loss: 0.9389 - val_accuracy: 0.8440
Epoch 195/200
63/63 [=====] - 1s 22ms/step - loss: 0.0566 - accuracy: 0.97
35 - val_loss: 0.8658 - val_accuracy: 0.8400
Epoch 196/200
63/63 [=====] - 1s 22ms/step - loss: 0.0849 - accuracy: 0.96
75 - val_loss: 0.7799 - val_accuracy: 0.8540
Epoch 197/200
63/63 [=====] - 1s 23ms/step - loss: 0.0604 - accuracy: 0.98
15 - val_loss: 0.8017 - val_accuracy: 0.8570
Epoch 198/200
63/63 [=====] - 2s 23ms/step - loss: 0.0829 - accuracy: 0.97
40 - val_loss: 0.6794 - val_accuracy: 0.8500
Epoch 199/200
63/63 [=====] - 2s 23ms/step - loss: 0.0635 - accuracy: 0.97
90 - val_loss: 0.5874 - val_accuracy: 0.8560
Epoch 200/200
63/63 [=====] - 2s 24ms/step - loss: 0.0475 - accuracy: 0.98
35 - val_loss: 0.7106 - val_accuracy: 0.8520
```

## Test accuracy of the model

```
In [24]: test15 = keras.models.load_model(
    "convnet_from_scratch_with_augmented_data.keras")
test_loss, test_acc = test15.evaluate(testing_data)
print(f"Test accuracy: {test_acc:.3f}")

32/32 [=====] - 1s 9ms/step - loss: 0.3934 - accuracy: 0.830
0
Test accuracy: 0.830
```

Q3. Now change your training sample so that you achieve better performance than those from Steps 1 and 2. This sample size may be larger, or smaller than those in the previous steps. The objective is to find the ideal training sample size to get best prediction results.

Raising the training sample to 2000, keeping the Validation and test sets the same as before(500 samples)

```
In [25]: original_dir = pathlib.Path("train")
new_base_dir = pathlib.Path("cats_vs_dogs_small_Q3")

def make_subset(subset_name, start_index, end_index):
    for category in ("cat", "dog"):
        dir = new_base_dir / subset_name / category
        os.makedirs(dir)
        fnames = [f"{category}.{i}.jpg" for i in range(start_index, end_index)]
        for fname in fnames:
            shutil.copyfile(src=original_dir / fname,
                            dst=dir / fname)
#Creating training, Test and validation sets.
#Training has 2000 samples, test has 500 samples and validation has 500 samples.
make_subset("train", start_index=667, end_index=2667)
make_subset("validation", start_index=2668, end_index=3168)
make_subset("test", start_index=3169, end_index=3669)
```

```
In [26]: in20 = keras.Input(shape=(180, 180, 3))
mad3 = augmented_data(in20)
mad3 = layers.Rescaling(1./255)(mad3)
mad3 = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(mad3)
mad3 = layers.MaxPooling2D(pool_size=2)(mad3)
mad3 = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(mad3)
mad3 = layers.MaxPooling2D(pool_size=2)(mad3)
mad3 = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(mad3)
mad3 = layers.MaxPooling2D(pool_size=2)(mad3)
mad3 = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(mad3)
mad3 = layers.MaxPooling2D(pool_size=2)(mad3)
mad3 = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(mad3)
mad3 = layers.Flatten()(mad3)
mad3 = layers.Dropout(0.5)(mad3)
out20 = layers.Dense(1, activation="sigmoid")(mad3)
model20 = keras.Model(inputs=in20, outputs=out20)

model20.compile(loss="binary_crossentropy",
                 optimizer="adam",
                 metrics=["accuracy"])
```

```
In [27]: callbac20 = [
    keras.callbacks.ModelCheckpoint(
        filepath="convnet_from_scratch_with_augmentation_info.keras",
        save_best_only=True,
        monitor="val_loss")
]
history20 = model20.fit(
    training_data,
    epochs=300,
    validation_data=valid_data,
    callbacks=callbac20)
```

```
Epoch 1/300
63/63 [=====] - 4s 26ms/step - loss: 0.6969 - accuracy: 0.49
50 - val_loss: 0.6927 - val_accuracy: 0.5110
Epoch 2/300
63/63 [=====] - 1s 23ms/step - loss: 0.6934 - accuracy: 0.50
88 - val_loss: 0.6931 - val_accuracy: 0.5000
Epoch 3/300
63/63 [=====] - 1s 22ms/step - loss: 0.6933 - accuracy: 0.49
85 - val_loss: 0.6932 - val_accuracy: 0.5000
Epoch 4/300
63/63 [=====] - 1s 22ms/step - loss: 0.6933 - accuracy: 0.50
15 - val_loss: 0.6928 - val_accuracy: 0.5000
Epoch 5/300
63/63 [=====] - 2s 23ms/step - loss: 0.6939 - accuracy: 0.49
90 - val_loss: 0.6932 - val_accuracy: 0.5060
Epoch 6/300
63/63 [=====] - 2s 23ms/step - loss: 0.6935 - accuracy: 0.50
15 - val_loss: 0.6931 - val_accuracy: 0.5000
Epoch 7/300
63/63 [=====] - 2s 23ms/step - loss: 0.6937 - accuracy: 0.47
95 - val_loss: 0.6930 - val_accuracy: 0.5100
Epoch 8/300
63/63 [=====] - 2s 23ms/step - loss: 0.6979 - accuracy: 0.50
85 - val_loss: 0.6930 - val_accuracy: 0.5000
Epoch 9/300
63/63 [=====] - 2s 25ms/step - loss: 0.6939 - accuracy: 0.49
95 - val_loss: 0.6917 - val_accuracy: 0.5370
Epoch 10/300
63/63 [=====] - 2s 24ms/step - loss: 0.6921 - accuracy: 0.52
40 - val_loss: 0.6917 - val_accuracy: 0.5130
Epoch 11/300
63/63 [=====] - 1s 22ms/step - loss: 0.6937 - accuracy: 0.50
70 - val_loss: 0.6929 - val_accuracy: 0.5200
Epoch 12/300
63/63 [=====] - 1s 22ms/step - loss: 0.6926 - accuracy: 0.53
85 - val_loss: 0.6943 - val_accuracy: 0.5000
Epoch 13/300
63/63 [=====] - 2s 24ms/step - loss: 0.6779 - accuracy: 0.58
40 - val_loss: 0.6699 - val_accuracy: 0.5800
Epoch 14/300
63/63 [=====] - 2s 24ms/step - loss: 0.6609 - accuracy: 0.61
75 - val_loss: 0.6418 - val_accuracy: 0.6270
Epoch 15/300
63/63 [=====] - 1s 22ms/step - loss: 0.6705 - accuracy: 0.60
80 - val_loss: 0.6564 - val_accuracy: 0.6160
Epoch 16/300
63/63 [=====] - 1s 23ms/step - loss: 0.6684 - accuracy: 0.60
50 - val_loss: 0.6472 - val_accuracy: 0.6260
Epoch 17/300
63/63 [=====] - 2s 23ms/step - loss: 0.6489 - accuracy: 0.62
80 - val_loss: 0.6519 - val_accuracy: 0.6170
Epoch 18/300
63/63 [=====] - 2s 25ms/step - loss: 0.6467 - accuracy: 0.62
60 - val_loss: 0.6244 - val_accuracy: 0.6630
Epoch 19/300
63/63 [=====] - 2s 25ms/step - loss: 0.6284 - accuracy: 0.64
95 - val_loss: 0.6192 - val_accuracy: 0.6630
Epoch 20/300
63/63 [=====] - 2s 23ms/step - loss: 0.6386 - accuracy: 0.64
15 - val_loss: 0.6286 - val_accuracy: 0.6730
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Epoch 21/300
63/63 [=====] - 2s 23ms/step - loss: 0.6222 - accuracy: 0.65
48 - val_loss: 0.6244 - val_accuracy: 0.6700
Epoch 22/300
63/63 [=====] - 2s 24ms/step - loss: 0.6203 - accuracy: 0.65
30 - val_loss: 0.6187 - val_accuracy: 0.6650
Epoch 23/300
63/63 [=====] - 1s 23ms/step - loss: 0.6195 - accuracy: 0.66
60 - val_loss: 0.6214 - val_accuracy: 0.6700
Epoch 24/300
63/63 [=====] - 2s 29ms/step - loss: 0.6120 - accuracy: 0.66
10 - val_loss: 0.6131 - val_accuracy: 0.6700
Epoch 25/300
63/63 [=====] - 1s 23ms/step - loss: 0.5994 - accuracy: 0.68
60 - val_loss: 0.6345 - val_accuracy: 0.6660
Epoch 26/300
63/63 [=====] - 2s 23ms/step - loss: 0.5988 - accuracy: 0.68
40 - val_loss: 0.6050 - val_accuracy: 0.6770
Epoch 27/300
63/63 [=====] - 1s 22ms/step - loss: 0.5941 - accuracy: 0.67
70 - val_loss: 0.6699 - val_accuracy: 0.6680
Epoch 28/300
63/63 [=====] - 2s 23ms/step - loss: 0.5919 - accuracy: 0.69
25 - val_loss: 0.6209 - val_accuracy: 0.6790
Epoch 29/300
63/63 [=====] - 2s 23ms/step - loss: 0.5772 - accuracy: 0.69
60 - val_loss: 0.6148 - val_accuracy: 0.6840
Epoch 30/300
63/63 [=====] - 2s 24ms/step - loss: 0.5822 - accuracy: 0.70
00 - val_loss: 0.5979 - val_accuracy: 0.6890
Epoch 31/300
63/63 [=====] - 2s 23ms/step - loss: 0.5691 - accuracy: 0.71
25 - val_loss: 0.6030 - val_accuracy: 0.6880
Epoch 32/300
63/63 [=====] - 2s 25ms/step - loss: 0.5640 - accuracy: 0.71
30 - val_loss: 0.5825 - val_accuracy: 0.6950
Epoch 33/300
63/63 [=====] - 2s 23ms/step - loss: 0.5575 - accuracy: 0.71
50 - val_loss: 0.5865 - val_accuracy: 0.7080
Epoch 34/300
63/63 [=====] - 1s 22ms/step - loss: 0.5567 - accuracy: 0.70
90 - val_loss: 0.5914 - val_accuracy: 0.7070
Epoch 35/300
63/63 [=====] - 2s 24ms/step - loss: 0.5452 - accuracy: 0.71
65 - val_loss: 0.5690 - val_accuracy: 0.7080
Epoch 36/300
63/63 [=====] - 2s 24ms/step - loss: 0.5315 - accuracy: 0.73
55 - val_loss: 0.5526 - val_accuracy: 0.7480
Epoch 37/300
63/63 [=====] - 2s 24ms/step - loss: 0.5183 - accuracy: 0.74
50 - val_loss: 0.5402 - val_accuracy: 0.7480
Epoch 38/300
63/63 [=====] - 2s 24ms/step - loss: 0.5274 - accuracy: 0.73
75 - val_loss: 0.5363 - val_accuracy: 0.7260
Epoch 39/300
63/63 [=====] - 2s 24ms/step - loss: 0.4926 - accuracy: 0.76
75 - val_loss: 0.5344 - val_accuracy: 0.7460
Epoch 40/300
63/63 [=====] - 2s 23ms/step - loss: 0.5069 - accuracy: 0.75
20 - val_loss: 0.5503 - val_accuracy: 0.7490
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Epoch 41/300
63/63 [=====] - 2s 23ms/step - loss: 0.5017 - accuracy: 0.76
60 - val_loss: 0.5475 - val_accuracy: 0.7480
Epoch 42/300
63/63 [=====] - 2s 25ms/step - loss: 0.4840 - accuracy: 0.77
75 - val_loss: 0.4977 - val_accuracy: 0.7570
Epoch 43/300
63/63 [=====] - 2s 24ms/step - loss: 0.4576 - accuracy: 0.77
95 - val_loss: 0.5268 - val_accuracy: 0.7530
Epoch 44/300
63/63 [=====] - 2s 23ms/step - loss: 0.4495 - accuracy: 0.77
50 - val_loss: 0.5469 - val_accuracy: 0.7550
Epoch 45/300
63/63 [=====] - 2s 23ms/step - loss: 0.4709 - accuracy: 0.78
40 - val_loss: 0.5013 - val_accuracy: 0.7530
Epoch 46/300
63/63 [=====] - 1s 22ms/step - loss: 0.4596 - accuracy: 0.79
45 - val_loss: 0.5173 - val_accuracy: 0.7550
Epoch 47/300
63/63 [=====] - 2s 24ms/step - loss: 0.4581 - accuracy: 0.78
65 - val_loss: 0.4884 - val_accuracy: 0.7750
Epoch 48/300
63/63 [=====] - 1s 22ms/step - loss: 0.4392 - accuracy: 0.78
75 - val_loss: 0.5019 - val_accuracy: 0.7610
Epoch 49/300
63/63 [=====] - 2s 24ms/step - loss: 0.4337 - accuracy: 0.80
65 - val_loss: 0.4810 - val_accuracy: 0.7790
Epoch 50/300
63/63 [=====] - 2s 24ms/step - loss: 0.4112 - accuracy: 0.81
65 - val_loss: 0.4736 - val_accuracy: 0.7860
Epoch 51/300
63/63 [=====] - 2s 23ms/step - loss: 0.4186 - accuracy: 0.79
90 - val_loss: 0.4750 - val_accuracy: 0.7900
Epoch 52/300
63/63 [=====] - 2s 23ms/step - loss: 0.4013 - accuracy: 0.82
10 - val_loss: 0.5512 - val_accuracy: 0.7560
Epoch 53/300
63/63 [=====] - 2s 23ms/step - loss: 0.4150 - accuracy: 0.80
35 - val_loss: 0.4897 - val_accuracy: 0.7710
Epoch 54/300
63/63 [=====] - 2s 23ms/step - loss: 0.3784 - accuracy: 0.82
30 - val_loss: 0.5785 - val_accuracy: 0.7640
Epoch 55/300
63/63 [=====] - 2s 23ms/step - loss: 0.3919 - accuracy: 0.81
50 - val_loss: 0.4824 - val_accuracy: 0.7860
Epoch 56/300
63/63 [=====] - 2s 25ms/step - loss: 0.3786 - accuracy: 0.82
25 - val_loss: 0.4671 - val_accuracy: 0.7920
Epoch 57/300
63/63 [=====] - 2s 24ms/step - loss: 0.3783 - accuracy: 0.83
45 - val_loss: 0.4561 - val_accuracy: 0.8010
Epoch 58/300
63/63 [=====] - 1s 22ms/step - loss: 0.3828 - accuracy: 0.82
55 - val_loss: 0.4981 - val_accuracy: 0.7750
Epoch 59/300
63/63 [=====] - 1s 23ms/step - loss: 0.3728 - accuracy: 0.83
10 - val_loss: 0.5191 - val_accuracy: 0.7860
Epoch 60/300
63/63 [=====] - 1s 22ms/step - loss: 0.3639 - accuracy: 0.83
50 - val_loss: 0.5178 - val_accuracy: 0.7790
```

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Epoch 61/300
63/63 [=====] - 1s 22ms/step - loss: 0.3708 - accuracy: 0.83
80 - val_loss: 0.5872 - val_accuracy: 0.7680
Epoch 62/300
63/63 [=====] - 1s 22ms/step - loss: 0.3380 - accuracy: 0.84
75 - val_loss: 0.4779 - val_accuracy: 0.7990
Epoch 63/300
63/63 [=====] - 2s 23ms/step - loss: 0.3545 - accuracy: 0.84
60 - val_loss: 0.5730 - val_accuracy: 0.7570
Epoch 64/300
63/63 [=====] - 2s 23ms/step - loss: 0.3381 - accuracy: 0.84
95 - val_loss: 0.5221 - val_accuracy: 0.7970
Epoch 65/300
63/63 [=====] - 2s 24ms/step - loss: 0.3354 - accuracy: 0.85
25 - val_loss: 0.4734 - val_accuracy: 0.8110
Epoch 66/300
63/63 [=====] - 2s 23ms/step - loss: 0.3256 - accuracy: 0.85
90 - val_loss: 0.4676 - val_accuracy: 0.8070
Epoch 67/300
63/63 [=====] - 2s 23ms/step - loss: 0.3583 - accuracy: 0.84
55 - val_loss: 0.5162 - val_accuracy: 0.7880
Epoch 68/300
63/63 [=====] - 1s 22ms/step - loss: 0.3444 - accuracy: 0.84
45 - val_loss: 0.4844 - val_accuracy: 0.7840
Epoch 69/300
63/63 [=====] - 1s 22ms/step - loss: 0.3369 - accuracy: 0.84
55 - val_loss: 0.4785 - val_accuracy: 0.7930
Epoch 70/300
63/63 [=====] - 1s 22ms/step - loss: 0.3371 - accuracy: 0.85
80 - val_loss: 0.4948 - val_accuracy: 0.8070
Epoch 71/300
63/63 [=====] - 2s 24ms/step - loss: 0.3139 - accuracy: 0.86
50 - val_loss: 0.4438 - val_accuracy: 0.8260
Epoch 72/300
63/63 [=====] - 1s 22ms/step - loss: 0.3203 - accuracy: 0.85
45 - val_loss: 0.4603 - val_accuracy: 0.8010
Epoch 73/300
63/63 [=====] - 1s 22ms/step - loss: 0.2964 - accuracy: 0.87
35 - val_loss: 0.4495 - val_accuracy: 0.8190
Epoch 74/300
63/63 [=====] - 1s 22ms/step - loss: 0.3287 - accuracy: 0.86
35 - val_loss: 0.5277 - val_accuracy: 0.7890
Epoch 75/300
63/63 [=====] - 2s 23ms/step - loss: 0.2868 - accuracy: 0.87
15 - val_loss: 0.5180 - val_accuracy: 0.7890
Epoch 76/300
63/63 [=====] - 2s 23ms/step - loss: 0.2799 - accuracy: 0.88
45 - val_loss: 0.4946 - val_accuracy: 0.8030
Epoch 77/300
63/63 [=====] - 2s 23ms/step - loss: 0.2915 - accuracy: 0.87
30 - val_loss: 0.5494 - val_accuracy: 0.7910
Epoch 78/300
63/63 [=====] - 2s 23ms/step - loss: 0.2820 - accuracy: 0.87
60 - val_loss: 0.5296 - val_accuracy: 0.7950
Epoch 79/300
63/63 [=====] - 2s 23ms/step - loss: 0.2957 - accuracy: 0.87
80 - val_loss: 0.4782 - val_accuracy: 0.7990
Epoch 80/300
63/63 [=====] - 2s 23ms/step - loss: 0.2786 - accuracy: 0.88
25 - val_loss: 0.4727 - val_accuracy: 0.8080
```

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Epoch 81/300
63/63 [=====] - 1s 22ms/step - loss: 0.2874 - accuracy: 0.87
80 - val_loss: 0.5763 - val_accuracy: 0.8000
Epoch 82/300
63/63 [=====] - 2s 24ms/step - loss: 0.2757 - accuracy: 0.88
75 - val_loss: 0.4435 - val_accuracy: 0.8000
Epoch 83/300
63/63 [=====] - 1s 22ms/step - loss: 0.2679 - accuracy: 0.88
85 - val_loss: 0.4625 - val_accuracy: 0.8120
Epoch 84/300
63/63 [=====] - 1s 22ms/step - loss: 0.2537 - accuracy: 0.89
15 - val_loss: 0.5363 - val_accuracy: 0.8810
Epoch 85/300
63/63 [=====] - 2s 23ms/step - loss: 0.2794 - accuracy: 0.87
45 - val_loss: 0.5020 - val_accuracy: 0.8050
Epoch 86/300
63/63 [=====] - 2s 23ms/step - loss: 0.2610 - accuracy: 0.89
40 - val_loss: 0.6005 - val_accuracy: 0.7840
Epoch 87/300
63/63 [=====] - 2s 23ms/step - loss: 0.2590 - accuracy: 0.89
40 - val_loss: 0.4951 - val_accuracy: 0.8110
Epoch 88/300
63/63 [=====] - 2s 24ms/step - loss: 0.2377 - accuracy: 0.90
30 - val_loss: 0.5273 - val_accuracy: 0.8130
Epoch 89/300
63/63 [=====] - 2s 23ms/step - loss: 0.2781 - accuracy: 0.88
40 - val_loss: 0.4599 - val_accuracy: 0.8210
Epoch 90/300
63/63 [=====] - 2s 23ms/step - loss: 0.2457 - accuracy: 0.89
55 - val_loss: 0.4997 - val_accuracy: 0.8190
Epoch 91/300
63/63 [=====] - 2s 23ms/step - loss: 0.2290 - accuracy: 0.90
45 - val_loss: 0.5571 - val_accuracy: 0.8140
Epoch 92/300
63/63 [=====] - 1s 23ms/step - loss: 0.2554 - accuracy: 0.89
30 - val_loss: 0.5174 - val_accuracy: 0.8100
Epoch 93/300
63/63 [=====] - 1s 22ms/step - loss: 0.2344 - accuracy: 0.90
30 - val_loss: 0.5042 - val_accuracy: 0.8190
Epoch 94/300
63/63 [=====] - 2s 23ms/step - loss: 0.2329 - accuracy: 0.90
80 - val_loss: 0.5287 - val_accuracy: 0.8080
Epoch 95/300
63/63 [=====] - 2s 24ms/step - loss: 0.2369 - accuracy: 0.90
05 - val_loss: 0.5293 - val_accuracy: 0.8090
Epoch 96/300
63/63 [=====] - 2s 23ms/step - loss: 0.2335 - accuracy: 0.90
10 - val_loss: 0.5743 - val_accuracy: 0.8070
Epoch 97/300
63/63 [=====] - 2s 23ms/step - loss: 0.2111 - accuracy: 0.91
00 - val_loss: 0.5926 - val_accuracy: 0.8140
Epoch 98/300
63/63 [=====] - 2s 24ms/step - loss: 0.2321 - accuracy: 0.89
80 - val_loss: 0.5251 - val_accuracy: 0.8220
Epoch 99/300
63/63 [=====] - 2s 23ms/step - loss: 0.2183 - accuracy: 0.90
90 - val_loss: 0.5381 - val_accuracy: 0.8180
Epoch 100/300
63/63 [=====] - 2s 23ms/step - loss: 0.2182 - accuracy: 0.91
00 - val_loss: 0.5126 - val_accuracy: 0.8200
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Epoch 101/300
63/63 [=====] - 2s 23ms/step - loss: 0.2087 - accuracy: 0.91
48 - val_loss: 0.5280 - val_accuracy: 0.8140
Epoch 102/300
63/63 [=====] - 2s 24ms/step - loss: 0.2454 - accuracy: 0.89
48 - val_loss: 0.4889 - val_accuracy: 0.8440
Epoch 103/300
63/63 [=====] - 1s 23ms/step - loss: 0.2158 - accuracy: 0.90
90 - val_loss: 0.5193 - val_accuracy: 0.8370
Epoch 104/300
63/63 [=====] - 1s 22ms/step - loss: 0.2081 - accuracy: 0.91
88 - val_loss: 0.4992 - val_accuracy: 0.8340
Epoch 105/300
63/63 [=====] - 1s 22ms/step - loss: 0.2244 - accuracy: 0.90
55 - val_loss: 0.5857 - val_accuracy: 0.8000
Epoch 106/300
63/63 [=====] - 1s 22ms/step - loss: 0.2150 - accuracy: 0.91
15 - val_loss: 0.5562 - val_accuracy: 0.8260
Epoch 107/300
63/63 [=====] - 1s 22ms/step - loss: 0.1874 - accuracy: 0.92
70 - val_loss: 0.5204 - val_accuracy: 0.8150
Epoch 108/300
63/63 [=====] - 1s 22ms/step - loss: 0.2134 - accuracy: 0.91
25 - val_loss: 0.5380 - val_accuracy: 0.8140
Epoch 109/300
63/63 [=====] - 1s 22ms/step - loss: 0.2292 - accuracy: 0.90
10 - val_loss: 0.4817 - val_accuracy: 0.8290
Epoch 110/300
63/63 [=====] - 2s 23ms/step - loss: 0.1783 - accuracy: 0.92
40 - val_loss: 0.5149 - val_accuracy: 0.8280
Epoch 111/300
63/63 [=====] - 2s 23ms/step - loss: 0.2035 - accuracy: 0.91
55 - val_loss: 0.5612 - val_accuracy: 0.8140
Epoch 112/300
63/63 [=====] - 2s 23ms/step - loss: 0.1862 - accuracy: 0.92
50 - val_loss: 0.5303 - val_accuracy: 0.8180
Epoch 113/300
63/63 [=====] - 2s 23ms/step - loss: 0.1988 - accuracy: 0.92
65 - val_loss: 0.6122 - val_accuracy: 0.8020
Epoch 114/300
63/63 [=====] - 2s 23ms/step - loss: 0.1981 - accuracy: 0.91
85 - val_loss: 0.5839 - val_accuracy: 0.8140
Epoch 115/300
63/63 [=====] - 1s 22ms/step - loss: 0.2190 - accuracy: 0.91
45 - val_loss: 0.5334 - val_accuracy: 0.8200
Epoch 116/300
63/63 [=====] - 1s 22ms/step - loss: 0.1903 - accuracy: 0.92
25 - val_loss: 0.5693 - val_accuracy: 0.8190
Epoch 117/300
63/63 [=====] - 1s 22ms/step - loss: 0.1725 - accuracy: 0.92
75 - val_loss: 0.5865 - val_accuracy: 0.8080
Epoch 118/300
63/63 [=====] - 1s 22ms/step - loss: 0.1952 - accuracy: 0.92
85 - val_loss: 0.5972 - val_accuracy: 0.8240
Epoch 119/300
63/63 [=====] - 1s 22ms/step - loss: 0.1823 - accuracy: 0.93
30 - val_loss: 0.5185 - val_accuracy: 0.8480
Epoch 120/300
63/63 [=====] - 1s 22ms/step - loss: 0.1787 - accuracy: 0.92
85 - val_loss: 0.5749 - val_accuracy: 0.8250
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Epoch 121/300
63/63 [=====] - 2s 23ms/step - loss: 0.1760 - accuracy: 0.92
48 - val_loss: 0.6581 - val_accuracy: 0.8170
Epoch 122/300
63/63 [=====] - 2s 23ms/step - loss: 0.1799 - accuracy: 0.92
75 - val_loss: 0.6186 - val_accuracy: 0.8260
Epoch 123/300
63/63 [=====] - 2s 23ms/step - loss: 0.1572 - accuracy: 0.93
35 - val_loss: 0.6207 - val_accuracy: 0.8250
Epoch 124/300
63/63 [=====] - 2s 23ms/step - loss: 0.1767 - accuracy: 0.92
35 - val_loss: 0.6726 - val_accuracy: 0.8300
Epoch 125/300
63/63 [=====] - 2s 23ms/step - loss: 0.1792 - accuracy: 0.92
60 - val_loss: 0.7039 - val_accuracy: 0.7940
Epoch 126/300
63/63 [=====] - 2s 24ms/step - loss: 0.1795 - accuracy: 0.93
30 - val_loss: 0.5351 - val_accuracy: 0.8100
Epoch 127/300
63/63 [=====] - 1s 22ms/step - loss: 0.1681 - accuracy: 0.93
20 - val_loss: 0.6732 - val_accuracy: 0.8140
Epoch 128/300
63/63 [=====] - 1s 22ms/step - loss: 0.1724 - accuracy: 0.93
15 - val_loss: 0.6241 - val_accuracy: 0.8220
Epoch 129/300
63/63 [=====] - 1s 22ms/step - loss: 0.1770 - accuracy: 0.93
15 - val_loss: 0.6691 - val_accuracy: 0.8120
Epoch 130/300
63/63 [=====] - 1s 22ms/step - loss: 0.1780 - accuracy: 0.92
30 - val_loss: 0.6676 - val_accuracy: 0.8140
Epoch 131/300
63/63 [=====] - 1s 22ms/step - loss: 0.1576 - accuracy: 0.93
65 - val_loss: 0.6366 - val_accuracy: 0.8130
Epoch 132/300
63/63 [=====] - 1s 23ms/step - loss: 0.1701 - accuracy: 0.92
70 - val_loss: 0.5398 - val_accuracy: 0.8330
Epoch 133/300
63/63 [=====] - 1s 22ms/step - loss: 0.1395 - accuracy: 0.94
15 - val_loss: 0.5628 - val_accuracy: 0.8310
Epoch 134/300
63/63 [=====] - 2s 23ms/step - loss: 0.1437 - accuracy: 0.94
10 - val_loss: 0.5473 - val_accuracy: 0.8380
Epoch 135/300
63/63 [=====] - 2s 23ms/step - loss: 0.1535 - accuracy: 0.94
25 - val_loss: 0.6061 - val_accuracy: 0.8350
Epoch 136/300
63/63 [=====] - 2s 23ms/step - loss: 0.1791 - accuracy: 0.92
40 - val_loss: 0.7163 - val_accuracy: 0.8060
Epoch 137/300
63/63 [=====] - 2s 23ms/step - loss: 0.1536 - accuracy: 0.94
35 - val_loss: 0.6272 - val_accuracy: 0.8350
Epoch 138/300
63/63 [=====] - 2s 23ms/step - loss: 0.1670 - accuracy: 0.94
65 - val_loss: 0.7108 - val_accuracy: 0.8200
Epoch 139/300
63/63 [=====] - 2s 23ms/step - loss: 0.1688 - accuracy: 0.93
45 - val_loss: 0.6404 - val_accuracy: 0.8230
Epoch 140/300
63/63 [=====] - 1s 23ms/step - loss: 0.1553 - accuracy: 0.93
75 - val_loss: 0.6608 - val_accuracy: 0.8340
```

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Epoch 141/300
63/63 [=====] - 1s 23ms/step - loss: 0.1657 - accuracy: 0.94
00 - val_loss: 0.6292 - val_accuracy: 0.8190
Epoch 142/300
63/63 [=====] - 1s 22ms/step - loss: 0.1721 - accuracy: 0.93
00 - val_loss: 0.6648 - val_accuracy: 0.8200
Epoch 143/300
63/63 [=====] - 1s 22ms/step - loss: 0.1676 - accuracy: 0.93
30 - val_loss: 0.6795 - val_accuracy: 0.8120
Epoch 144/300
63/63 [=====] - 1s 22ms/step - loss: 0.1332 - accuracy: 0.95
10 - val_loss: 0.6852 - val_accuracy: 0.8140
Epoch 145/300
63/63 [=====] - 1s 23ms/step - loss: 0.1589 - accuracy: 0.93
90 - val_loss: 0.6320 - val_accuracy: 0.8160
Epoch 146/300
63/63 [=====] - 1s 23ms/step - loss: 0.1728 - accuracy: 0.93
50 - val_loss: 0.5975 - val_accuracy: 0.8230
Epoch 147/300
63/63 [=====] - 2s 23ms/step - loss: 0.1377 - accuracy: 0.94
60 - val_loss: 0.6625 - val_accuracy: 0.8260
Epoch 148/300
63/63 [=====] - 2s 23ms/step - loss: 0.1402 - accuracy: 0.93
95 - val_loss: 0.5918 - val_accuracy: 0.8360
Epoch 149/300
63/63 [=====] - 2s 23ms/step - loss: 0.1287 - accuracy: 0.95
00 - val_loss: 0.5717 - val_accuracy: 0.8460
Epoch 150/300
63/63 [=====] - 2s 23ms/step - loss: 0.1322 - accuracy: 0.94
60 - val_loss: 0.5748 - val_accuracy: 0.8290
Epoch 151/300
63/63 [=====] - 2s 24ms/step - loss: 0.1288 - accuracy: 0.95
15 - val_loss: 0.6516 - val_accuracy: 0.8090
Epoch 152/300
63/63 [=====] - 1s 22ms/step - loss: 0.1076 - accuracy: 0.95
65 - val_loss: 0.6894 - val_accuracy: 0.8190
Epoch 153/300
63/63 [=====] - 2s 23ms/step - loss: 0.1326 - accuracy: 0.94
90 - val_loss: 0.7145 - val_accuracy: 0.8250
Epoch 154/300
63/63 [=====] - 2s 23ms/step - loss: 0.1249 - accuracy: 0.95
10 - val_loss: 0.6822 - val_accuracy: 0.8270
Epoch 155/300
63/63 [=====] - 1s 22ms/step - loss: 0.1436 - accuracy: 0.94
45 - val_loss: 0.7163 - val_accuracy: 0.8170
Epoch 156/300
63/63 [=====] - 2s 23ms/step - loss: 0.1499 - accuracy: 0.93
60 - val_loss: 0.5661 - val_accuracy: 0.8330
Epoch 157/300
63/63 [=====] - 2s 24ms/step - loss: 0.1449 - accuracy: 0.94
20 - val_loss: 0.6242 - val_accuracy: 0.8150
Epoch 158/300
63/63 [=====] - 2s 23ms/step - loss: 0.1582 - accuracy: 0.94
35 - val_loss: 0.5821 - val_accuracy: 0.8310
Epoch 159/300
63/63 [=====] - 2s 24ms/step - loss: 0.1367 - accuracy: 0.94
65 - val_loss: 0.6153 - val_accuracy: 0.8120
Epoch 160/300
63/63 [=====] - 2s 24ms/step - loss: 0.1278 - accuracy: 0.95
30 - val_loss: 0.5839 - val_accuracy: 0.8270
```

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Epoch 161/300
63/63 [=====] - 2s 23ms/step - loss: 0.1267 - accuracy: 0.94
50 - val_loss: 0.6546 - val_accuracy: 0.8190
Epoch 162/300
63/63 [=====] - 2s 23ms/step - loss: 0.1757 - accuracy: 0.93
85 - val_loss: 0.7413 - val_accuracy: 0.8080
Epoch 163/300
63/63 [=====] - 2s 24ms/step - loss: 0.1369 - accuracy: 0.94
70 - val_loss: 0.5854 - val_accuracy: 0.8280
Epoch 164/300
63/63 [=====] - 2s 23ms/step - loss: 0.1253 - accuracy: 0.94
85 - val_loss: 0.6364 - val_accuracy: 0.8330
Epoch 165/300
63/63 [=====] - 2s 23ms/step - loss: 0.1464 - accuracy: 0.94
40 - val_loss: 0.6286 - val_accuracy: 0.8290
Epoch 166/300
63/63 [=====] - 1s 22ms/step - loss: 0.1248 - accuracy: 0.94
70 - val_loss: 0.5914 - val_accuracy: 0.8320
Epoch 167/300
63/63 [=====] - 1s 22ms/step - loss: 0.1368 - accuracy: 0.95
80 - val_loss: 0.7454 - val_accuracy: 0.8070
Epoch 168/300
63/63 [=====] - 1s 23ms/step - loss: 0.1228 - accuracy: 0.95
80 - val_loss: 0.6262 - val_accuracy: 0.8390
Epoch 169/300
63/63 [=====] - 2s 23ms/step - loss: 0.1431 - accuracy: 0.94
50 - val_loss: 0.6761 - val_accuracy: 0.8230
Epoch 170/300
63/63 [=====] - 1s 23ms/step - loss: 0.1438 - accuracy: 0.94
75 - val_loss: 0.6471 - val_accuracy: 0.8180
Epoch 171/300
63/63 [=====] - 2s 23ms/step - loss: 0.1153 - accuracy: 0.95
40 - val_loss: 0.6947 - val_accuracy: 0.8200
Epoch 172/300
63/63 [=====] - 2s 24ms/step - loss: 0.1445 - accuracy: 0.94
65 - val_loss: 0.6294 - val_accuracy: 0.8280
Epoch 173/300
63/63 [=====] - 2s 24ms/step - loss: 0.1119 - accuracy: 0.95
65 - val_loss: 0.6148 - val_accuracy: 0.8180
Epoch 174/300
63/63 [=====] - 2s 23ms/step - loss: 0.1086 - accuracy: 0.95
95 - val_loss: 0.6854 - val_accuracy: 0.8170
Epoch 175/300
63/63 [=====] - 2s 23ms/step - loss: 0.1096 - accuracy: 0.95
25 - val_loss: 0.7324 - val_accuracy: 0.8110
Epoch 176/300
63/63 [=====] - 2s 23ms/step - loss: 0.0973 - accuracy: 0.96
10 - val_loss: 0.6832 - val_accuracy: 0.8170
Epoch 177/300
63/63 [=====] - 1s 23ms/step - loss: 0.1245 - accuracy: 0.95
55 - val_loss: 0.7005 - val_accuracy: 0.8350
Epoch 178/300
63/63 [=====] - 1s 22ms/step - loss: 0.0975 - accuracy: 0.96
30 - val_loss: 0.7647 - val_accuracy: 0.8250
Epoch 179/300
63/63 [=====] - 2s 23ms/step - loss: 0.1284 - accuracy: 0.94
65 - val_loss: 0.6832 - val_accuracy: 0.8340
Epoch 180/300
63/63 [=====] - 2s 23ms/step - loss: 0.1169 - accuracy: 0.95
05 - val_loss: 0.6012 - val_accuracy: 0.8350
```

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Epoch 181/300
63/63 [=====] - 1s 22ms/step - loss: 0.1244 - accuracy: 0.95
65 - val_loss: 0.5806 - val_accuracy: 0.8410
Epoch 182/300
63/63 [=====] - 2s 23ms/step - loss: 0.1332 - accuracy: 0.94
65 - val_loss: 0.6857 - val_accuracy: 0.8330
Epoch 183/300
63/63 [=====] - 2s 23ms/step - loss: 0.1241 - accuracy: 0.95
66 - val_loss: 0.6505 - val_accuracy: 0.8400
Epoch 184/300
63/63 [=====] - 2s 24ms/step - loss: 0.1071 - accuracy: 0.96
68 - val_loss: 0.6999 - val_accuracy: 0.8290
Epoch 185/300
63/63 [=====] - 2s 23ms/step - loss: 0.0957 - accuracy: 0.96
65 - val_loss: 0.7864 - val_accuracy: 0.8240
Epoch 186/300
63/63 [=====] - 2s 23ms/step - loss: 0.1389 - accuracy: 0.94
40 - val_loss: 0.7790 - val_accuracy: 0.8120
Epoch 187/300
63/63 [=====] - 2s 23ms/step - loss: 0.1211 - accuracy: 0.94
80 - val_loss: 0.7464 - val_accuracy: 0.8300
Epoch 188/300
63/63 [=====] - 2s 23ms/step - loss: 0.1054 - accuracy: 0.95
80 - val_loss: 0.7788 - val_accuracy: 0.8370
Epoch 189/300
63/63 [=====] - 1s 22ms/step - loss: 0.1066 - accuracy: 0.96
35 - val_loss: 0.7469 - val_accuracy: 0.8220
Epoch 190/300
63/63 [=====] - 1s 23ms/step - loss: 0.1089 - accuracy: 0.95
60 - val_loss: 0.7405 - val_accuracy: 0.8370
Epoch 191/300
63/63 [=====] - 1s 23ms/step - loss: 0.1034 - accuracy: 0.96
40 - val_loss: 0.8647 - val_accuracy: 0.8280
Epoch 192/300
63/63 [=====] - 1s 22ms/step - loss: 0.0961 - accuracy: 0.96
30 - val_loss: 0.7289 - val_accuracy: 0.8290
Epoch 193/300
63/63 [=====] - 1s 22ms/step - loss: 0.1204 - accuracy: 0.95
50 - val_loss: 0.7171 - val_accuracy: 0.8340
Epoch 194/300
63/63 [=====] - 1s 22ms/step - loss: 0.0924 - accuracy: 0.96
30 - val_loss: 0.7713 - val_accuracy: 0.8240
Epoch 195/300
63/63 [=====] - 2s 24ms/step - loss: 0.1060 - accuracy: 0.95
80 - val_loss: 0.6671 - val_accuracy: 0.8350
Epoch 196/300
63/63 [=====] - 2s 23ms/step - loss: 0.0859 - accuracy: 0.96
85 - val_loss: 0.7382 - val_accuracy: 0.8340
Epoch 197/300
63/63 [=====] - 2s 23ms/step - loss: 0.0950 - accuracy: 0.96
55 - val_loss: 0.8236 - val_accuracy: 0.8250
Epoch 198/300
63/63 [=====] - 2s 24ms/step - loss: 0.1051 - accuracy: 0.95
50 - val_loss: 0.7105 - val_accuracy: 0.8360
Epoch 199/300
63/63 [=====] - 2s 24ms/step - loss: 0.1585 - accuracy: 0.94
35 - val_loss: 1.1141 - val_accuracy: 0.7830
Epoch 200/300
63/63 [=====] - 2s 23ms/step - loss: 0.1439 - accuracy: 0.94
30 - val_loss: 0.6816 - val_accuracy: 0.8250
```

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Epoch 201/300
63/63 [=====] - 1s 23ms/step - loss: 0.1229 - accuracy: 0.95
30 - val_loss: 0.6767 - val_accuracy: 0.8340
Epoch 202/300
63/63 [=====] - 2s 23ms/step - loss: 0.1247 - accuracy: 0.95
55 - val_loss: 0.7163 - val_accuracy: 0.8390
Epoch 203/300
63/63 [=====] - 2s 23ms/step - loss: 0.1270 - accuracy: 0.94
80 - val_loss: 0.6333 - val_accuracy: 0.8300
Epoch 204/300
63/63 [=====] - 2s 23ms/step - loss: 0.1075 - accuracy: 0.95
60 - val_loss: 0.7445 - val_accuracy: 0.8200
Epoch 205/300
63/63 [=====] - 2s 24ms/step - loss: 0.1074 - accuracy: 0.95
95 - val_loss: 0.8312 - val_accuracy: 0.8210
Epoch 206/300
63/63 [=====] - 2s 25ms/step - loss: 0.1241 - accuracy: 0.95
55 - val_loss: 0.7949 - val_accuracy: 0.8240
Epoch 207/300
63/63 [=====] - 2s 24ms/step - loss: 0.0896 - accuracy: 0.96
45 - val_loss: 0.7796 - val_accuracy: 0.8300
Epoch 208/300
63/63 [=====] - 2s 25ms/step - loss: 0.0987 - accuracy: 0.96
55 - val_loss: 0.8258 - val_accuracy: 0.8120
Epoch 209/300
63/63 [=====] - 2s 25ms/step - loss: 0.1013 - accuracy: 0.96
05 - val_loss: 0.7046 - val_accuracy: 0.8280
Epoch 210/300
63/63 [=====] - 2s 24ms/step - loss: 0.0856 - accuracy: 0.96
40 - val_loss: 0.7030 - val_accuracy: 0.8180
Epoch 211/300
63/63 [=====] - 2s 23ms/step - loss: 0.1010 - accuracy: 0.96
30 - val_loss: 0.7275 - val_accuracy: 0.8370
Epoch 212/300
63/63 [=====] - 2s 23ms/step - loss: 0.1065 - accuracy: 0.96
40 - val_loss: 0.6862 - val_accuracy: 0.8130
Epoch 213/300
63/63 [=====] - 2s 23ms/step - loss: 0.0804 - accuracy: 0.96
70 - val_loss: 0.7232 - val_accuracy: 0.8410
Epoch 214/300
63/63 [=====] - 1s 22ms/step - loss: 0.0788 - accuracy: 0.97
00 - val_loss: 0.9955 - val_accuracy: 0.8000
Epoch 215/300
63/63 [=====] - 1s 22ms/step - loss: 0.1070 - accuracy: 0.95
80 - val_loss: 0.7201 - val_accuracy: 0.8280
Epoch 216/300
63/63 [=====] - 1s 22ms/step - loss: 0.1085 - accuracy: 0.96
00 - val_loss: 0.6513 - val_accuracy: 0.8260
Epoch 217/300
63/63 [=====] - 1s 23ms/step - loss: 0.0834 - accuracy: 0.97
05 - val_loss: 0.7319 - val_accuracy: 0.8270
Epoch 218/300
63/63 [=====] - 2s 24ms/step - loss: 0.0850 - accuracy: 0.97
05 - val_loss: 0.6817 - val_accuracy: 0.8340
Epoch 219/300
63/63 [=====] - 2s 24ms/step - loss: 0.0867 - accuracy: 0.97
05 - val_loss: 0.7215 - val_accuracy: 0.8250
Epoch 220/300
63/63 [=====] - 2s 24ms/step - loss: 0.0844 - accuracy: 0.96
75 - val_loss: 0.9869 - val_accuracy: 0.8110
```

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Epoch 221/300
63/63 [=====] - 2s 23ms/step - loss: 0.0962 - accuracy: 0.95
85 - val_loss: 0.8141 - val_accuracy: 0.8210
Epoch 222/300
63/63 [=====] - 2s 24ms/step - loss: 0.1011 - accuracy: 0.96
20 - val_loss: 0.7502 - val_accuracy: 0.8200
Epoch 223/300
63/63 [=====] - 2s 24ms/step - loss: 0.0716 - accuracy: 0.97
35 - val_loss: 0.7098 - val_accuracy: 0.8270
Epoch 224/300
63/63 [=====] - 2s 23ms/step - loss: 0.0941 - accuracy: 0.96
45 - val_loss: 0.7354 - val_accuracy: 0.8370
Epoch 225/300
63/63 [=====] - 2s 23ms/step - loss: 0.1032 - accuracy: 0.96
05 - val_loss: 0.7800 - val_accuracy: 0.8210
Epoch 226/300
63/63 [=====] - 2s 23ms/step - loss: 0.1135 - accuracy: 0.96
00 - val_loss: 0.6908 - val_accuracy: 0.8290
Epoch 227/300
63/63 [=====] - 2s 23ms/step - loss: 0.0958 - accuracy: 0.96
45 - val_loss: 0.7594 - val_accuracy: 0.8300
Epoch 228/300
63/63 [=====] - 1s 23ms/step - loss: 0.1139 - accuracy: 0.95
60 - val_loss: 0.7482 - val_accuracy: 0.8200
Epoch 229/300
63/63 [=====] - 1s 22ms/step - loss: 0.0970 - accuracy: 0.96
25 - val_loss: 0.7292 - val_accuracy: 0.8210
Epoch 230/300
63/63 [=====] - 1s 23ms/step - loss: 0.0944 - accuracy: 0.96
15 - val_loss: 0.6982 - val_accuracy: 0.8300
Epoch 231/300
63/63 [=====] - 2s 24ms/step - loss: 0.0864 - accuracy: 0.96
95 - val_loss: 0.7470 - val_accuracy: 0.8420
Epoch 232/300
63/63 [=====] - 2s 24ms/step - loss: 0.0918 - accuracy: 0.96
55 - val_loss: 0.7395 - val_accuracy: 0.8310
Epoch 233/300
63/63 [=====] - 2s 24ms/step - loss: 0.0892 - accuracy: 0.96
75 - val_loss: 0.7544 - val_accuracy: 0.8340
Epoch 234/300
63/63 [=====] - 2s 23ms/step - loss: 0.0791 - accuracy: 0.96
55 - val_loss: 0.6847 - val_accuracy: 0.8340
Epoch 235/300
63/63 [=====] - 2s 23ms/step - loss: 0.0912 - accuracy: 0.96
90 - val_loss: 0.7101 - val_accuracy: 0.8280
Epoch 236/300
63/63 [=====] - 2s 23ms/step - loss: 0.1070 - accuracy: 0.96
40 - val_loss: 0.7515 - val_accuracy: 0.8400
Epoch 237/300
63/63 [=====] - 2s 23ms/step - loss: 0.0777 - accuracy: 0.96
85 - val_loss: 0.7740 - val_accuracy: 0.8340
Epoch 238/300
63/63 [=====] - 2s 23ms/step - loss: 0.0787 - accuracy: 0.97
25 - val_loss: 0.7254 - val_accuracy: 0.8380
Epoch 239/300
63/63 [=====] - 2s 23ms/step - loss: 0.0796 - accuracy: 0.96
70 - val_loss: 0.8014 - val_accuracy: 0.8250
Epoch 240/300
63/63 [=====] - 2s 23ms/step - loss: 0.1027 - accuracy: 0.96
65 - val_loss: 0.8964 - val_accuracy: 0.8140
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Epoch 241/300
63/63 [=====] - 2s 24ms/step - loss: 0.0833 - accuracy: 0.96
48 - val_loss: 0.8270 - val_accuracy: 0.8260
Epoch 242/300
63/63 [=====] - 2s 23ms/step - loss: 0.0958 - accuracy: 0.96
65 - val_loss: 0.7408 - val_accuracy: 0.8410
Epoch 243/300
63/63 [=====] - 2s 23ms/step - loss: 0.0805 - accuracy: 0.97
48 - val_loss: 0.8189 - val_accuracy: 0.8310
Epoch 244/300
63/63 [=====] - 2s 24ms/step - loss: 0.0950 - accuracy: 0.96
85 - val_loss: 0.6585 - val_accuracy: 0.8230
Epoch 245/300
63/63 [=====] - 2s 24ms/step - loss: 0.0864 - accuracy: 0.97
30 - val_loss: 0.7414 - val_accuracy: 0.8240
Epoch 246/300
63/63 [=====] - 2s 23ms/step - loss: 0.0713 - accuracy: 0.97
30 - val_loss: 0.8849 - val_accuracy: 0.8270
Epoch 247/300
63/63 [=====] - 2s 24ms/step - loss: 0.0780 - accuracy: 0.96
95 - val_loss: 0.8384 - val_accuracy: 0.8350
Epoch 248/300
63/63 [=====] - 1s 23ms/step - loss: 0.0892 - accuracy: 0.97
85 - val_loss: 0.8213 - val_accuracy: 0.8420
Epoch 249/300
63/63 [=====] - 1s 23ms/step - loss: 0.1016 - accuracy: 0.96
50 - val_loss: 1.0411 - val_accuracy: 0.8250
Epoch 250/300
63/63 [=====] - 1s 22ms/step - loss: 0.1231 - accuracy: 0.95
85 - val_loss: 0.8206 - val_accuracy: 0.8390
Epoch 251/300
63/63 [=====] - 1s 22ms/step - loss: 0.0843 - accuracy: 0.96
95 - val_loss: 0.7976 - val_accuracy: 0.8300
Epoch 252/300
63/63 [=====] - 1s 22ms/step - loss: 0.1003 - accuracy: 0.96
15 - val_loss: 0.8891 - val_accuracy: 0.8330
Epoch 253/300
63/63 [=====] - 1s 23ms/step - loss: 0.0648 - accuracy: 0.97
65 - val_loss: 0.8289 - val_accuracy: 0.8320
Epoch 254/300
63/63 [=====] - 1s 23ms/step - loss: 0.0954 - accuracy: 0.96
30 - val_loss: 0.8579 - val_accuracy: 0.8480
Epoch 255/300
63/63 [=====] - 2s 23ms/step - loss: 0.0910 - accuracy: 0.96
50 - val_loss: 0.9807 - val_accuracy: 0.8170
Epoch 256/300
63/63 [=====] - 2s 23ms/step - loss: 0.1012 - accuracy: 0.96
20 - val_loss: 0.8614 - val_accuracy: 0.8350
Epoch 257/300
63/63 [=====] - 2s 23ms/step - loss: 0.1138 - accuracy: 0.96
90 - val_loss: 0.7855 - val_accuracy: 0.8480
Epoch 258/300
63/63 [=====] - 2s 23ms/step - loss: 0.1276 - accuracy: 0.95
48 - val_loss: 0.7402 - val_accuracy: 0.8340
Epoch 259/300
63/63 [=====] - 2s 23ms/step - loss: 0.0771 - accuracy: 0.97
85 - val_loss: 0.9559 - val_accuracy: 0.8240
Epoch 260/300
63/63 [=====] - 2s 23ms/step - loss: 0.0763 - accuracy: 0.97
20 - val_loss: 0.8038 - val_accuracy: 0.8320
```

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Epoch 261/300
63/63 [=====] - 1s 22ms/step - loss: 0.0722 - accuracy: 0.97
48 - val_loss: 0.7601 - val_accuracy: 0.8350
Epoch 262/300
63/63 [=====] - 1s 22ms/step - loss: 0.0858 - accuracy: 0.96
65 - val_loss: 0.7199 - val_accuracy: 0.8440
Epoch 263/300
63/63 [=====] - 2s 23ms/step - loss: 0.0677 - accuracy: 0.97
50 - val_loss: 0.7586 - val_accuracy: 0.8390
Epoch 264/300
63/63 [=====] - 1s 22ms/step - loss: 0.0618 - accuracy: 0.98
65 - val_loss: 0.7852 - val_accuracy: 0.8380
Epoch 265/300
63/63 [=====] - 1s 23ms/step - loss: 0.0675 - accuracy: 0.97
60 - val_loss: 0.7872 - val_accuracy: 0.8360
Epoch 266/300
63/63 [=====] - 1s 23ms/step - loss: 0.0520 - accuracy: 0.98
30 - val_loss: 0.7742 - val_accuracy: 0.8460
Epoch 267/300
63/63 [=====] - 2s 24ms/step - loss: 0.0853 - accuracy: 0.96
70 - val_loss: 0.8988 - val_accuracy: 0.8240
Epoch 268/300
63/63 [=====] - 2s 24ms/step - loss: 0.0762 - accuracy: 0.97
60 - val_loss: 0.9762 - val_accuracy: 0.8290
Epoch 269/300
63/63 [=====] - 2s 23ms/step - loss: 0.0731 - accuracy: 0.97
25 - val_loss: 0.8551 - val_accuracy: 0.8360
Epoch 270/300
63/63 [=====] - 2s 24ms/step - loss: 0.0862 - accuracy: 0.96
70 - val_loss: 0.9632 - val_accuracy: 0.8160
Epoch 271/300
63/63 [=====] - 2s 23ms/step - loss: 0.0965 - accuracy: 0.96
30 - val_loss: 0.7410 - val_accuracy: 0.8550
Epoch 272/300
63/63 [=====] - 2s 23ms/step - loss: 0.1126 - accuracy: 0.95
85 - val_loss: 0.6897 - val_accuracy: 0.8370
Epoch 273/300
63/63 [=====] - 1s 22ms/step - loss: 0.0811 - accuracy: 0.97
15 - val_loss: 0.8668 - val_accuracy: 0.8390
Epoch 274/300
63/63 [=====] - 1s 23ms/step - loss: 0.0827 - accuracy: 0.97
20 - val_loss: 0.9404 - val_accuracy: 0.8180
Epoch 275/300
63/63 [=====] - 1s 23ms/step - loss: 0.0823 - accuracy: 0.96
95 - val_loss: 0.8488 - val_accuracy: 0.8330
Epoch 276/300
63/63 [=====] - 1s 22ms/step - loss: 0.0800 - accuracy: 0.96
80 - val_loss: 0.8476 - val_accuracy: 0.8400
Epoch 277/300
63/63 [=====] - 2s 23ms/step - loss: 0.0904 - accuracy: 0.96
30 - val_loss: 0.8677 - val_accuracy: 0.8360
Epoch 278/300
63/63 [=====] - 2s 23ms/step - loss: 0.1107 - accuracy: 0.95
80 - val_loss: 0.9061 - val_accuracy: 0.8200
Epoch 279/300
63/63 [=====] - 2s 23ms/step - loss: 0.1047 - accuracy: 0.96
35 - val_loss: 0.7659 - val_accuracy: 0.8350
Epoch 280/300
63/63 [=====] - 2s 24ms/step - loss: 0.0973 - accuracy: 0.95
90 - val_loss: 0.8275 - val_accuracy: 0.8350
```

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Epoch 281/300
63/63 [=====] - 2s 24ms/step - loss: 0.0736 - accuracy: 0.97
10 - val_loss: 0.7999 - val_accuracy: 0.8410
Epoch 282/300
63/63 [=====] - 2s 23ms/step - loss: 0.0668 - accuracy: 0.97
45 - val_loss: 0.7594 - val_accuracy: 0.8360
Epoch 283/300
63/63 [=====] - 2s 23ms/step - loss: 0.0718 - accuracy: 0.96
90 - val_loss: 0.8015 - val_accuracy: 0.8400
Epoch 284/300
63/63 [=====] - 2s 23ms/step - loss: 0.0884 - accuracy: 0.96
85 - val_loss: 0.7663 - val_accuracy: 0.8390
Epoch 285/300
63/63 [=====] - 1s 23ms/step - loss: 0.0723 - accuracy: 0.97
20 - val_loss: 0.8355 - val_accuracy: 0.8370
Epoch 286/300
63/63 [=====] - 1s 23ms/step - loss: 0.0545 - accuracy: 0.97
85 - val_loss: 0.7826 - val_accuracy: 0.8420
Epoch 287/300
63/63 [=====] - 1s 23ms/step - loss: 0.0798 - accuracy: 0.97
05 - val_loss: 0.9887 - val_accuracy: 0.8170
Epoch 288/300
63/63 [=====] - 2s 23ms/step - loss: 0.0832 - accuracy: 0.97
10 - val_loss: 0.9911 - val_accuracy: 0.8170
Epoch 289/300
63/63 [=====] - 1s 22ms/step - loss: 0.0819 - accuracy: 0.96
75 - val_loss: 0.9219 - val_accuracy: 0.8350
Epoch 290/300
63/63 [=====] - 1s 22ms/step - loss: 0.1077 - accuracy: 0.96
10 - val_loss: 0.8585 - val_accuracy: 0.8210
Epoch 291/300
63/63 [=====] - 2s 23ms/step - loss: 0.0701 - accuracy: 0.97
20 - val_loss: 0.7545 - val_accuracy: 0.8400
Epoch 292/300
63/63 [=====] - 2s 23ms/step - loss: 0.0747 - accuracy: 0.97
25 - val_loss: 0.7850 - val_accuracy: 0.8320
Epoch 293/300
63/63 [=====] - 2s 23ms/step - loss: 0.0664 - accuracy: 0.97
05 - val_loss: 0.8159 - val_accuracy: 0.8300
Epoch 294/300
63/63 [=====] - 2s 23ms/step - loss: 0.0735 - accuracy: 0.97
30 - val_loss: 0.8985 - val_accuracy: 0.8320
Epoch 295/300
63/63 [=====] - 2s 24ms/step - loss: 0.0819 - accuracy: 0.96
95 - val_loss: 0.7263 - val_accuracy: 0.8330
Epoch 296/300
63/63 [=====] - 2s 23ms/step - loss: 0.0687 - accuracy: 0.97
45 - val_loss: 0.8645 - val_accuracy: 0.8190
Epoch 297/300
63/63 [=====] - 1s 22ms/step - loss: 0.0767 - accuracy: 0.97
00 - val_loss: 0.7746 - val_accuracy: 0.8280
Epoch 298/300
63/63 [=====] - 1s 22ms/step - loss: 0.0872 - accuracy: 0.96
30 - val_loss: 0.8225 - val_accuracy: 0.8250
Epoch 299/300
63/63 [=====] - 1s 22ms/step - loss: 0.0709 - accuracy: 0.97
35 - val_loss: 0.9489 - val_accuracy: 0.8220
Epoch 300/300
63/63 [=====] - 2s 23ms/step - loss: 0.0733 - accuracy: 0.97
30 - val_loss: 0.8588 - val_accuracy: 0.8380
```

```
In [28]: tes20 = keras.models.load_model(  
    "convnet_from_scratch_with_augmentation_info.keras")  
test_loss, test_acc = tes20.evaluate(testing_data)  
print(f"Test accuracy: {test_acc:.3f}")  
  
32/32 [=====] - 1s 9ms/step - loss: 0.4607 - accuracy: 0.805  
0  
Test accuracy: 0.805
```

```
In [ ]: #Q4. Repeat Steps 1-3, but now using a pretrained network. The sample sizes you use in
```

Instantiating the VGG16 convolutional base

```
In [29]: convolut_bas = keras.applications.vgg16.VGG16(  
    weights="imagenet",  
    include_top=False,  
    input_shape=(180, 180, 3))  
  
Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/vg  
g16/vgg16_weights_tf_dim_ordering_tf_kernels_notop.h5  
58889256/58889256 [=====] - 2s 0us/step
```

```
In [30]: convolut_bas.summary()
```

Model: "vgg16"

Layer (type)	Output Shape	Param #
input_4 (InputLayer)	[(None, 180, 180, 3)]	0
block1_conv1 (Conv2D)	(None, 180, 180, 64)	1792
block1_conv2 (Conv2D)	(None, 180, 180, 64)	36928
block1_pool (MaxPooling2D)	(None, 90, 90, 64)	0
block2_conv1 (Conv2D)	(None, 90, 90, 128)	73856
block2_conv2 (Conv2D)	(None, 90, 90, 128)	147584
block2_pool (MaxPooling2D)	(None, 45, 45, 128)	0
block3_conv1 (Conv2D)	(None, 45, 45, 256)	295168
block3_conv2 (Conv2D)	(None, 45, 45, 256)	590080
block3_conv3 (Conv2D)	(None, 45, 45, 256)	590080
block3_pool (MaxPooling2D)	(None, 22, 22, 256)	0
block4_conv1 (Conv2D)	(None, 22, 22, 512)	1180160
block4_conv2 (Conv2D)	(None, 22, 22, 512)	2359808
block4_conv3 (Conv2D)	(None, 22, 22, 512)	2359808
block4_pool (MaxPooling2D)	(None, 11, 11, 512)	0
block5_conv1 (Conv2D)	(None, 11, 11, 512)	2359808
block5_conv2 (Conv2D)	(None, 11, 11, 512)	2359808
block5_conv3 (Conv2D)	(None, 11, 11, 512)	2359808
block5_pool (MaxPooling2D)	(None, 5, 5, 512)	0

Total params: 14714688 (56.13 MB)  
 Trainable params: 14714688 (56.13 MB)  
 Non-trainable params: 0 (0.00 Byte)

---

In [3]: *#Obtaining features without data augmentation by employing a pretrained model*  
*#Getting the labels that correspond to the qualities of the VGG16*

---

In [31]: *import numpy as np*  
*def get\_features\_and\_labels(dataset):*  
 *all\_feature = []*  
 *all\_label = []*  
 *for images, labels in dataset:*  
 *preprocessed\_images = keras.applications.vgg16.preprocess\_input(images)*

```
        features = convolut_bas.predict(preprocessed_images)
        all_feature.append(features)
        all_label.append(labels)
    return np.concatenate(all_feature), np.concatenate(all_label)

train_features, train_labels = get_features_and_labels(training_data)
val_features, val_labels = get_features_and_labels(valid_data)
test_features, test_labels = get_features_and_labels(testing_data)
```

1/1 [=====] - 0s 2s/step  
1/1 [=====] - 0s 29ms/step  
1/1 [=====] - 0s 24ms/step  
1/1 [=====] - 0s 28ms/step  
1/1 [=====] - 0s 28ms/step  
1/1 [=====] - 0s 24ms/step  
1/1 [=====] - 0s 30ms/step  
1/1 [=====] - 0s 25ms/step  
1/1 [=====] - 0s 24ms/step  
1/1 [=====] - 0s 27ms/step  
1/1 [=====] - 0s 30ms/step  
1/1 [=====] - 0s 26ms/step  
1/1 [=====] - 0s 29ms/step  
1/1 [=====] - 0s 26ms/step  
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1/1 [=====] - 0s 24ms/step  
1/1 [=====] - 0s 25ms/step  
1/1 [=====] - 0s 27ms/step  
1/1 [=====] - 0s 27ms/step  
1/1 [=====] - 0s 25ms/step



```
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 20ms/step
```

```
In [32]: train_features.shape
```

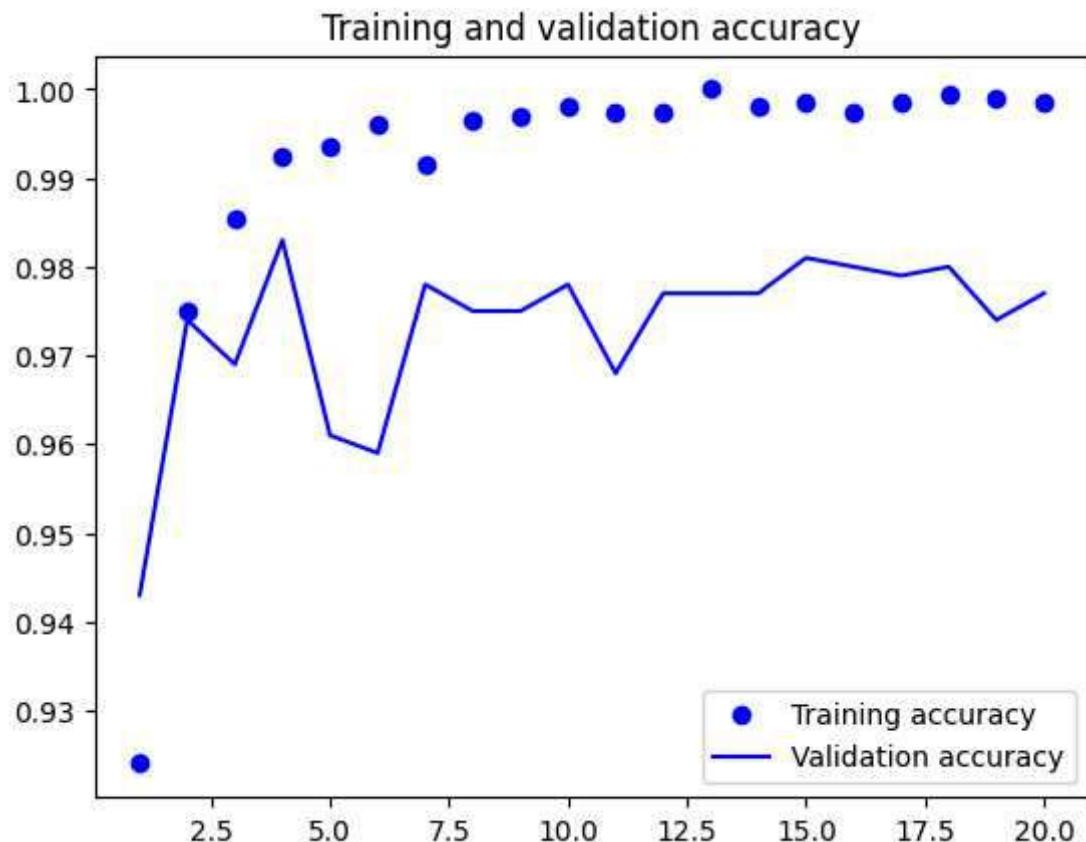
```
Out[32]: (2000, 5, 5, 512)
```

```
In [33]: in34 = keras.Input(shape=(5, 5, 512))
mad4 = layers.Flatten()(in34)
mad4 = layers.Dense(256)(mad4)
mad4 = layers.Dropout(0.5)(mad4)
output4 = layers.Dense(1, activation="sigmoid")(mad4)
mode4 = keras.Model(in34, output4)
mode4.compile(loss="binary_crossentropy",
               optimizer="rmsprop",
               metrics=["accuracy"])

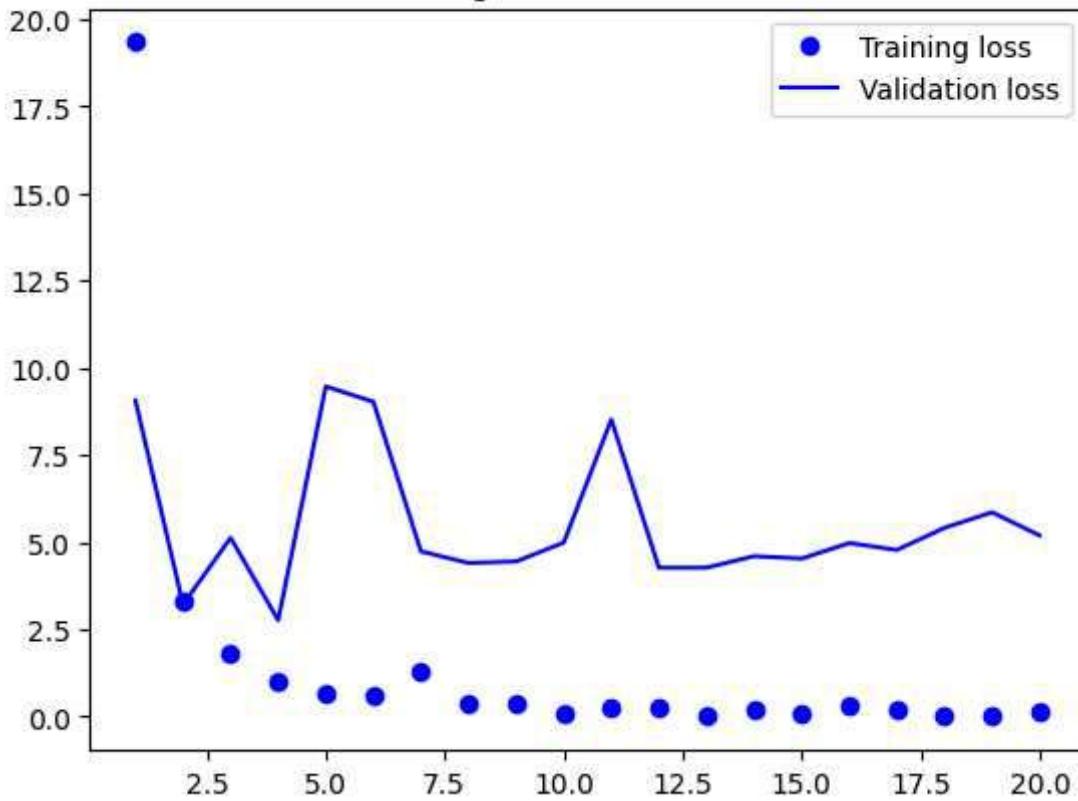
callback4 = [
    keras.callbacks.ModelCheckpoint(
        filepath="feature_extraction.keras",
        save_best_only=True,
        monitor="val_loss")
]
history4 = mode4.fit(
    train_features, train_labels,
    epochs=20,
    validation_data=(val_features, val_labels),
    callbacks=callback4)
```

```
Epoch 1/20
63/63 [=====] - 1s 18ms/step - loss: 19.3349 - accuracy: 0.9
240 - val_loss: 9.0630 - val_accuracy: 0.9430
Epoch 2/20
63/63 [=====] - 0s 6ms/step - loss: 3.3215 - accuracy: 0.975
0 - val_loss: 3.2185 - val_accuracy: 0.9748
Epoch 3/20
63/63 [=====] - 0s 4ms/step - loss: 1.7958 - accuracy: 0.985
5 - val_loss: 5.1253 - val_accuracy: 0.9698
Epoch 4/20
63/63 [=====] - 0s 6ms/step - loss: 1.0307 - accuracy: 0.992
5 - val_loss: 2.7630 - val_accuracy: 0.9830
Epoch 5/20
63/63 [=====] - 0s 5ms/step - loss: 0.6784 - accuracy: 0.993
5 - val_loss: 9.4671 - val_accuracy: 0.9610
Epoch 6/20
63/63 [=====] - 0s 5ms/step - loss: 0.6023 - accuracy: 0.996
0 - val_loss: 9.0274 - val_accuracy: 0.9590
Epoch 7/20
63/63 [=====] - 0s 4ms/step - loss: 1.2931 - accuracy: 0.991
5 - val_loss: 4.7362 - val_accuracy: 0.9780
Epoch 8/20
63/63 [=====] - 0s 5ms/step - loss: 0.3887 - accuracy: 0.996
5 - val_loss: 4.4847 - val_accuracy: 0.9750
Epoch 9/20
63/63 [=====] - 0s 4ms/step - loss: 0.3789 - accuracy: 0.997
0 - val_loss: 4.4487 - val_accuracy: 0.9750
Epoch 10/20
63/63 [=====] - 0s 5ms/step - loss: 0.1024 - accuracy: 0.998
0 - val_loss: 4.9899 - val_accuracy: 0.9780
Epoch 11/20
63/63 [=====] - 0s 4ms/step - loss: 0.2675 - accuracy: 0.997
5 - val_loss: 8.5192 - val_accuracy: 0.9680
Epoch 12/20
63/63 [=====] - 0s 4ms/step - loss: 0.2379 - accuracy: 0.997
5 - val_loss: 4.2698 - val_accuracy: 0.9770
Epoch 13/20
63/63 [=====] - 0s 4ms/step - loss: 4.8875e-19 - accuracy:
1.0000 - val_loss: 4.2698 - val_accuracy: 0.9770
Epoch 14/20
63/63 [=====] - 0s 5ms/step - loss: 0.2028 - accuracy: 0.998
0 - val_loss: 4.5997 - val_accuracy: 0.9770
Epoch 15/20
63/63 [=====] - 0s 4ms/step - loss: 0.0654 - accuracy: 0.998
5 - val_loss: 4.5309 - val_accuracy: 0.9810
Epoch 16/20
63/63 [=====] - 0s 4ms/step - loss: 0.3162 - accuracy: 0.997
5 - val_loss: 4.9763 - val_accuracy: 0.9800
Epoch 17/20
63/63 [=====] - 0s 5ms/step - loss: 0.1722 - accuracy: 0.998
5 - val_loss: 4.7785 - val_accuracy: 0.9790
Epoch 18/20
63/63 [=====] - 0s 5ms/step - loss: 0.0136 - accuracy: 0.999
5 - val_loss: 5.4133 - val_accuracy: 0.9800
Epoch 19/20
63/63 [=====] - 0s 4ms/step - loss: 0.0296 - accuracy: 0.999
0 - val_loss: 5.8578 - val_accuracy: 0.9740
Epoch 20/20
63/63 [=====] - 0s 4ms/step - loss: 0.1178 - accuracy: 0.998
5 - val_loss: 5.1936 - val_accuracy: 0.9770
```

```
In [34]: import matplotlib.pyplot as plt
accur = history4.history["accuracy"]
valac = history4.history["val_accuracy"]
loss = history4.history["loss"]
valloss = history4.history["val_loss"]
epochs = range(1, len(accur) + 1)
plt.plot(epochs, accur, "bo", label="Training accuracy")
plt.plot(epochs, valac, "b", label="Validation accuracy")
plt.title("Training and validation accuracy")
plt.legend()
plt.figure()
plt.plot(epochs, loss, "bo", label="Training loss")
plt.plot(epochs, valloss, "b", label="Validation loss")
plt.title("Training and validation loss")
plt.legend()
plt.show()
```



### Training and validation loss



```
In [34]: # VGG16 instantiation and freezing of convolutional bases
```

```
In [35]: convolut_bas = keras.applications.vgg16.VGG16(
    weights="imagenet",
    include_top=False)
convolut_bas.trainable = False

convolut_bas.trainable = True
print("This is the number of trainable weights "
      "before freezing the conv base:", len(convolut_bas.trainable_weights))

convolut_bas.trainable = False
print("This is the number of trainable weights "
      "after freezing the conv base:", len(convolut_bas.trainable_weights))
```

This is the number of trainable weights before freezing the conv base: 26  
 This is the number of trainable weights after freezing the conv base: 0

```
In [36]: # Model is now performing with a classifier and agumentation to convolution base
```

```
In [36]: augmente_data2 = keras.Sequential(
    [
        layers.RandomFlip("horizontal"),
        layers.RandomRotation(0.1),
        layers.RandomZoom(0.2),
    ]
)

inp42 = keras.Input(shape=(180, 180, 3))
madx2 = augmente_data2(inp42)
madx2 = keras.layers.Lambda(
```

```

lambda x: keras.applications.vgg16.preprocess_input(x))(madx2)
madx2 = convolut_bas(madx2)
madx2 = layers.Flatten()(madx2)
madx2 = layers.Dense(256)(madx2)
madx2 = layers.Dropout(0.5)(madx2)
outp4 = layers.Dense(1, activation="sigmoid")(madx2)
modelfin = keras.Model(inp42, outp4)
modelfin.compile(loss="binary_crossentropy",
                  optimizer="rmsprop",
                  metrics=["accuracy"])

```

```

In [37]: callbaclast = [
    keras.callbacks.ModelCheckpoint(
        filepath="features_extraction_with_augmentation2.keras",
        save_best_only=True,
        monitor="val_loss"
    )
]

historylast = modelfin.fit(
    training_data,
    epochs=10,
    validation_data=valid_data,
    callbacks=callbaclast
)

```

```

Epoch 1/10
63/63 [=====] - 5s 59ms/step - loss: 22.3091 - accuracy: 0.8
945 - val_loss: 7.2922 - val_accuracy: 0.9560
Epoch 2/10
63/63 [=====] - 4s 57ms/step - loss: 6.0385 - accuracy: 0.94
70 - val_loss: 6.9971 - val_accuracy: 0.9550
Epoch 3/10
63/63 [=====] - 4s 57ms/step - loss: 4.7916 - accuracy: 0.96
15 - val_loss: 3.2285 - val_accuracy: 0.9780
Epoch 4/10
63/63 [=====] - 3s 51ms/step - loss: 5.3508 - accuracy: 0.96
10 - val_loss: 5.5286 - val_accuracy: 0.9680
Epoch 5/10
63/63 [=====] - 4s 58ms/step - loss: 4.8624 - accuracy: 0.95
80 - val_loss: 3.1556 - val_accuracy: 0.9780
Epoch 6/10
63/63 [=====] - 3s 51ms/step - loss: 4.7029 - accuracy: 0.96
30 - val_loss: 4.2189 - val_accuracy: 0.9770
Epoch 7/10
63/63 [=====] - 3s 51ms/step - loss: 3.5567 - accuracy: 0.96
70 - val_loss: 8.9960 - val_accuracy: 0.9600
Epoch 8/10
63/63 [=====] - 4s 58ms/step - loss: 3.2703 - accuracy: 0.97
20 - val_loss: 2.7816 - val_accuracy: 0.9800
Epoch 9/10
63/63 [=====] - 4s 58ms/step - loss: 2.2314 - accuracy: 0.97
65 - val_loss: 2.3047 - val_accuracy: 0.9850
Epoch 10/10
63/63 [=====] - 3s 51ms/step - loss: 1.9892 - accuracy: 0.97
60 - val_loss: 2.7441 - val_accuracy: 0.9820

```

```

In [38]: test_last = keras.models.load_model(
    "features_extraction_with_augmentation2.keras", safe_mode=False)

```

```
test_loss, test_acc = test_last.evaluate(testing_data)
print(f"Test accuracy: {test_acc:.3f}")

32/32 [=====] - 1s 32ms/step - loss: 5.1362 - accuracy: 0.97
20
Test accuracy: 0.972
```

Fine-tuning a pretrained model

```
In [ ]: #All Layers being frozen up until the fourth from the bottom
```

```
In [39]: convolut_bas.trainable = True
for layer in convolut_bas.layers[:-4]:
    layer.trainable = False
```

```
In [40]: modelfin.compile(loss="binary_crossentropy",
                      optimizer=keras.optimizers.RMSprop(learning_rate=1e-5),
                      metrics=["accuracy"])

tuning_call = [
    keras.callbacks.ModelCheckpoint(
        filepath="fine_tuning.keras",
        save_best_only=True,
        monitor="val_loss")
]
tuning_history = modelfin.fit(
    training_data,
    epochs=30,
    validation_data=valid_data,
    callbacks=tuning_call)
```

```
Epoch 1/30
63/63 [=====] - 6s 65ms/step - loss: 2.0524 - accuracy: 0.98
05 - val_loss: 2.5131 - val_accuracy: 0.9810
Epoch 2/30
63/63 [=====] - 4s 62ms/step - loss: 1.3322 - accuracy: 0.98
48 - val_loss: 1.9821 - val_accuracy: 0.9848
Epoch 3/30
63/63 [=====] - 3s 55ms/step - loss: 1.3982 - accuracy: 0.98
10 - val_loss: 2.9657 - val_accuracy: 0.9760
Epoch 4/30
63/63 [=====] - 4s 62ms/step - loss: 0.7826 - accuracy: 0.98
60 - val_loss: 1.4976 - val_accuracy: 0.9830
Epoch 5/30
63/63 [=====] - 3s 54ms/step - loss: 0.8120 - accuracy: 0.98
50 - val_loss: 1.6882 - val_accuracy: 0.9850
Epoch 6/30
63/63 [=====] - 4s 55ms/step - loss: 1.2385 - accuracy: 0.98
35 - val_loss: 2.2110 - val_accuracy: 0.9820
Epoch 7/30
63/63 [=====] - 4s 63ms/step - loss: 0.7897 - accuracy: 0.98
35 - val_loss: 1.3849 - val_accuracy: 0.9850
Epoch 8/30
63/63 [=====] - 3s 54ms/step - loss: 0.5174 - accuracy: 0.98
50 - val_loss: 1.4268 - val_accuracy: 0.9830
Epoch 9/30
63/63 [=====] - 3s 55ms/step - loss: 0.6173 - accuracy: 0.98
60 - val_loss: 1.7038 - val_accuracy: 0.9800
Epoch 10/30
63/63 [=====] - 4s 63ms/step - loss: 0.5784 - accuracy: 0.98
70 - val_loss: 1.2618 - val_accuracy: 0.9830
Epoch 11/30
63/63 [=====] - 3s 54ms/step - loss: 0.2861 - accuracy: 0.99
15 - val_loss: 1.3677 - val_accuracy: 0.9820
Epoch 12/30
63/63 [=====] - 3s 54ms/step - loss: 0.3556 - accuracy: 0.99
20 - val_loss: 1.3411 - val_accuracy: 0.9860
Epoch 13/30
63/63 [=====] - 3s 54ms/step - loss: 0.2336 - accuracy: 0.99
00 - val_loss: 1.4670 - val_accuracy: 0.9850
Epoch 14/30
63/63 [=====] - 3s 54ms/step - loss: 0.2730 - accuracy: 0.99
20 - val_loss: 1.4702 - val_accuracy: 0.9840
Epoch 15/30
63/63 [=====] - 3s 54ms/step - loss: 0.1281 - accuracy: 0.99
35 - val_loss: 1.4910 - val_accuracy: 0.9850
Epoch 16/30
63/63 [=====] - 3s 54ms/step - loss: 0.0980 - accuracy: 0.99
20 - val_loss: 1.5830 - val_accuracy: 0.9870
Epoch 17/30
63/63 [=====] - 3s 54ms/step - loss: 0.2807 - accuracy: 0.99
00 - val_loss: 1.4565 - val_accuracy: 0.9860
Epoch 18/30
63/63 [=====] - 3s 54ms/step - loss: 0.2340 - accuracy: 0.99
25 - val_loss: 1.3536 - val_accuracy: 0.9850
Epoch 19/30
63/63 [=====] - 3s 54ms/step - loss: 0.1347 - accuracy: 0.99
55 - val_loss: 1.4857 - val_accuracy: 0.9860
Epoch 20/30
63/63 [=====] - 3s 54ms/step - loss: 0.2532 - accuracy: 0.99
35 - val_loss: 1.8267 - val_accuracy: 0.9810
```

```
Epoch 21/30
63/63 [=====] - 3s 54ms/step - loss: 0.1555 - accuracy: 0.99
60 - val_loss: 1.3068 - val_accuracy: 0.9860
Epoch 22/30
63/63 [=====] - 4s 62ms/step - loss: 0.2524 - accuracy: 0.99
60 - val_loss: 1.2382 - val_accuracy: 0.9860
Epoch 23/30
63/63 [=====] - 3s 54ms/step - loss: 0.2034 - accuracy: 0.99
60 - val_loss: 1.5216 - val_accuracy: 0.9830
Epoch 24/30
63/63 [=====] - 3s 54ms/step - loss: 0.4021 - accuracy: 0.99
60 - val_loss: 1.4011 - val_accuracy: 0.9830
Epoch 25/30
63/63 [=====] - 4s 63ms/step - loss: 0.0720 - accuracy: 0.99
60 - val_loss: 1.2340 - val_accuracy: 0.9860
Epoch 26/30
63/63 [=====] - 4s 63ms/step - loss: 0.2931 - accuracy: 0.99
60 - val_loss: 1.1931 - val_accuracy: 0.9880
Epoch 27/30
63/63 [=====] - 4s 62ms/step - loss: 0.1862 - accuracy: 0.99
60 - val_loss: 1.1792 - val_accuracy: 0.9830
Epoch 28/30
63/63 [=====] - 3s 54ms/step - loss: 0.1058 - accuracy: 0.99
60 - val_loss: 1.2739 - val_accuracy: 0.9840
Epoch 29/30
63/63 [=====] - 3s 54ms/step - loss: 0.1520 - accuracy: 0.99
60 - val_loss: 1.6625 - val_accuracy: 0.9810
Epoch 30/30
63/63 [=====] - 4s 63ms/step - loss: 0.0892 - accuracy: 0.99
60 - val_loss: 1.1356 - val_accuracy: 0.9850
```

```
In [41]: tune_test = keras.models.load_model("fine_tuning.keras", safe_mode=False)
test_loss, test_acc = modelfin.evaluate(testing_data)
print(f"Test accuracy: {test_acc:.3f}")
```

```
32/32 [=====] - 1s 31ms/step - loss: 1.7676 - accuracy: 0.97
60
Test accuracy: 0.976
```