

```
In [6]: from google.colab import drive  
drive.mount('/content/drive')
```

Mounted at /content/drive

```
In [7]: !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 [8]: !unzip /content/train.zip
```

Streaming output truncated to the last 5000 lines.

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Q1. Consider the Cats & Dogs example. Start initially with a training sample of 1000, a validation sample of 500, and a test sample of 500 (like in the text). Use any technique to reduce overfitting and improve performance in developing a network that you train from scratch. What performance did you achieve?

```

In [9]: 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)

```

Data preprocessing

```

In [10]: # Managing the file direcotry; Splitting the file system into train(1000), test(500)
from tensorflow.keras.utils import image_dataset_from_directory

training_datasets = image_dataset_from_directory(
    new_base_dir / "train",
    image_size=(180, 180),
    batch_size=32)
valid_datasets = image_dataset_from_directory(
    new_base_dir / "validation",
    image_size=(180, 180),
    batch_size=32)
testing_datasets = image_dataset_from_directory(
    new_base_dir / "test",
    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.

```

Create a dataset instance from NumPy array of random numbers of 1000 samples and each sample of vector size 16

```

In [11]: 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)
```

creating the data into batches of size 32

```
In [12]: for i, element in enumerate(dataset):
          print(element.shape)
          if i >= 2:
              break
```

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

```
In [13]: 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 [14]: 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)
```

Display the shapes of the data and labels by the Dataset

```
In [15]: for data_batch, labels_batch in training_datasets:
          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,)
```

Build the model

Incorporating a small convnet for dogs vs. cats classification

```
In [16]: from tensorflow import keras
          from tensorflow.keras import layers

          inputs = keras.Input(shape=(180, 180, 3))
          a = layers.Rescaling(1./255)(inputs)
          a = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(a)
          a = layers.MaxPooling2D(pool_size=2)(a)
          a = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(a)
          a = layers.MaxPooling2D(pool_size=2)(a)
          a = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(a)
          a = layers.MaxPooling2D(pool_size=2)(a)
          a = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(a)
          a = layers.MaxPooling2D(pool_size=2)(a)
          a = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(a)
```

```
a = layers.Flatten()(a)
a = layers.Dropout(0.5)(a)
outputs = layers.Dense(1, activation="sigmoid")(a)
model = keras.Model(inputs=inputs, outputs=outputs)
```

```
In [17]: model.compile(loss="binary_crossentropy",
                      optimizer="adam",
                      metrics=["accuracy"])
```

summary of the model

```
In [18]: model.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 [19]: from keras.callbacks import ModelCheckpoint, EarlyStopping

callbacks = [
    keras.callbacks.ModelCheckpoint(
        filepath="convnet_from_scratch.keras",
        save_best_only=True,
        monitor="val_loss")
]
```

```
history = model.fit(  
    training_datasets,  
    epochs=30,  
    validation_data=valid_datasets,  
    callbacks=callbacks)
```

```
Epoch 1/30
63/63 [=====] - 9s 32ms/step - loss: 0.6953 - accuracy:
0.5230 - val_loss: 0.6936 - val_accuracy: 0.5000
Epoch 2/30
63/63 [=====] - 1s 17ms/step - loss: 0.6858 - accuracy:
0.5550 - val_loss: 0.6854 - val_accuracy: 0.5340
Epoch 3/30
63/63 [=====] - 1s 16ms/step - loss: 0.6665 - accuracy:
0.5930 - val_loss: 0.6841 - val_accuracy: 0.5510
Epoch 4/30
63/63 [=====] - 1s 15ms/step - loss: 0.6508 - accuracy:
0.6295 - val_loss: 0.6956 - val_accuracy: 0.6090
Epoch 5/30
63/63 [=====] - 1s 16ms/step - loss: 0.6152 - accuracy:
0.6775 - val_loss: 0.6670 - val_accuracy: 0.5910
Epoch 6/30
63/63 [=====] - 1s 16ms/step - loss: 0.5905 - accuracy:
0.6830 - val_loss: 0.6562 - val_accuracy: 0.6340
Epoch 7/30
63/63 [=====] - 1s 16ms/step - loss: 0.5733 - accuracy:
0.6995 - val_loss: 0.6466 - val_accuracy: 0.6720
Epoch 8/30
63/63 [=====] - 1s 17ms/step - loss: 0.5461 - accuracy:
0.7255 - val_loss: 0.6434 - val_accuracy: 0.6120
Epoch 9/30
63/63 [=====] - 1s 15ms/step - loss: 0.5162 - accuracy:
0.7465 - val_loss: 0.6509 - val_accuracy: 0.6660
Epoch 10/30
63/63 [=====] - 1s 16ms/step - loss: 0.4565 - accuracy:
0.7775 - val_loss: 0.6722 - val_accuracy: 0.6900
Epoch 11/30
63/63 [=====] - 1s 17ms/step - loss: 0.4178 - accuracy:
0.7945 - val_loss: 0.6197 - val_accuracy: 0.6930
Epoch 12/30
63/63 [=====] - 1s 15ms/step - loss: 0.3301 - accuracy:
0.8495 - val_loss: 0.7559 - val_accuracy: 0.6920
Epoch 13/30
63/63 [=====] - 1s 15ms/step - loss: 0.3013 - accuracy:
0.8560 - val_loss: 0.7858 - val_accuracy: 0.6840
Epoch 14/30
63/63 [=====] - 1s 15ms/step - loss: 0.2362 - accuracy:
0.9035 - val_loss: 0.8476 - val_accuracy: 0.7090
Epoch 15/30
63/63 [=====] - 1s 15ms/step - loss: 0.1886 - accuracy:
0.9210 - val_loss: 0.9778 - val_accuracy: 0.7110
Epoch 16/30
63/63 [=====] - 1s 15ms/step - loss: 0.1793 - accuracy:
0.9300 - val_loss: 0.9949 - val_accuracy: 0.7050
Epoch 17/30
63/63 [=====] - 1s 15ms/step - loss: 0.1404 - accuracy:
0.9425 - val_loss: 1.0254 - val_accuracy: 0.7130
Epoch 18/30
63/63 [=====] - 1s 15ms/step - loss: 0.1160 - accuracy:
0.9550 - val_loss: 1.1929 - val_accuracy: 0.7090
Epoch 19/30
63/63 [=====] - 1s 15ms/step - loss: 0.1025 - accuracy:
0.9670 - val_loss: 1.2320 - val_accuracy: 0.6980
Epoch 20/30
63/63 [=====] - 1s 15ms/step - loss: 0.0712 - accuracy:
0.9765 - val_loss: 1.2451 - val_accuracy: 0.7170
Epoch 21/30
63/63 [=====] - 1s 15ms/step - loss: 0.0676 - accuracy:
0.9765 - val_loss: 1.3301 - val_accuracy: 0.7190
Epoch 22/30
```

```

63/63 [=====] - 1s 15ms/step - loss: 0.0740 - accuracy:
0.9750 - val_loss: 1.4292 - val_accuracy: 0.7240
Epoch 23/30
63/63 [=====] - 1s 15ms/step - loss: 0.0991 - accuracy:
0.9610 - val_loss: 1.1535 - val_accuracy: 0.6940
Epoch 24/30
63/63 [=====] - 1s 15ms/step - loss: 0.0606 - accuracy:
0.9790 - val_loss: 1.3067 - val_accuracy: 0.7180
Epoch 25/30
63/63 [=====] - 1s 16ms/step - loss: 0.0529 - accuracy:
0.9835 - val_loss: 1.5358 - val_accuracy: 0.7000
Epoch 26/30
63/63 [=====] - 1s 16ms/step - loss: 0.0549 - accuracy:
0.9805 - val_loss: 1.4841 - val_accuracy: 0.7070
Epoch 27/30
63/63 [=====] - 1s 15ms/step - loss: 0.0754 - accuracy:
0.9735 - val_loss: 1.3312 - val_accuracy: 0.7060
Epoch 28/30
63/63 [=====] - 1s 15ms/step - loss: 0.0545 - accuracy:
0.9790 - val_loss: 1.3573 - val_accuracy: 0.7170
Epoch 29/30
63/63 [=====] - 1s 15ms/step - loss: 0.0374 - accuracy:
0.9890 - val_loss: 1.4857 - val_accuracy: 0.7130
Epoch 30/30
63/63 [=====] - 1s 15ms/step - loss: 0.0362 - accuracy:
0.9910 - val_loss: 1.4736 - val_accuracy: 0.6950

```

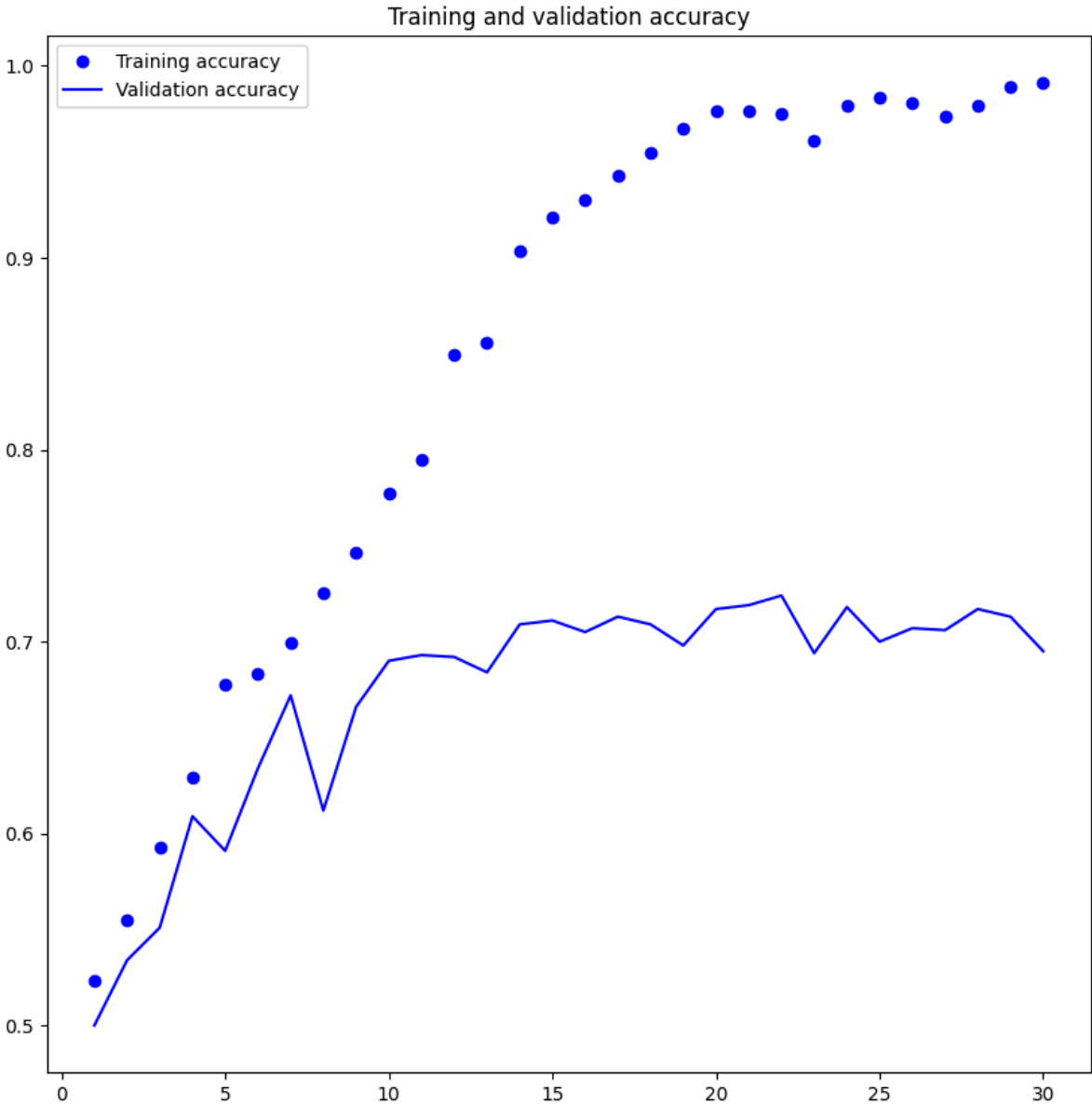
Display the curves of loss and accuracy during training

```

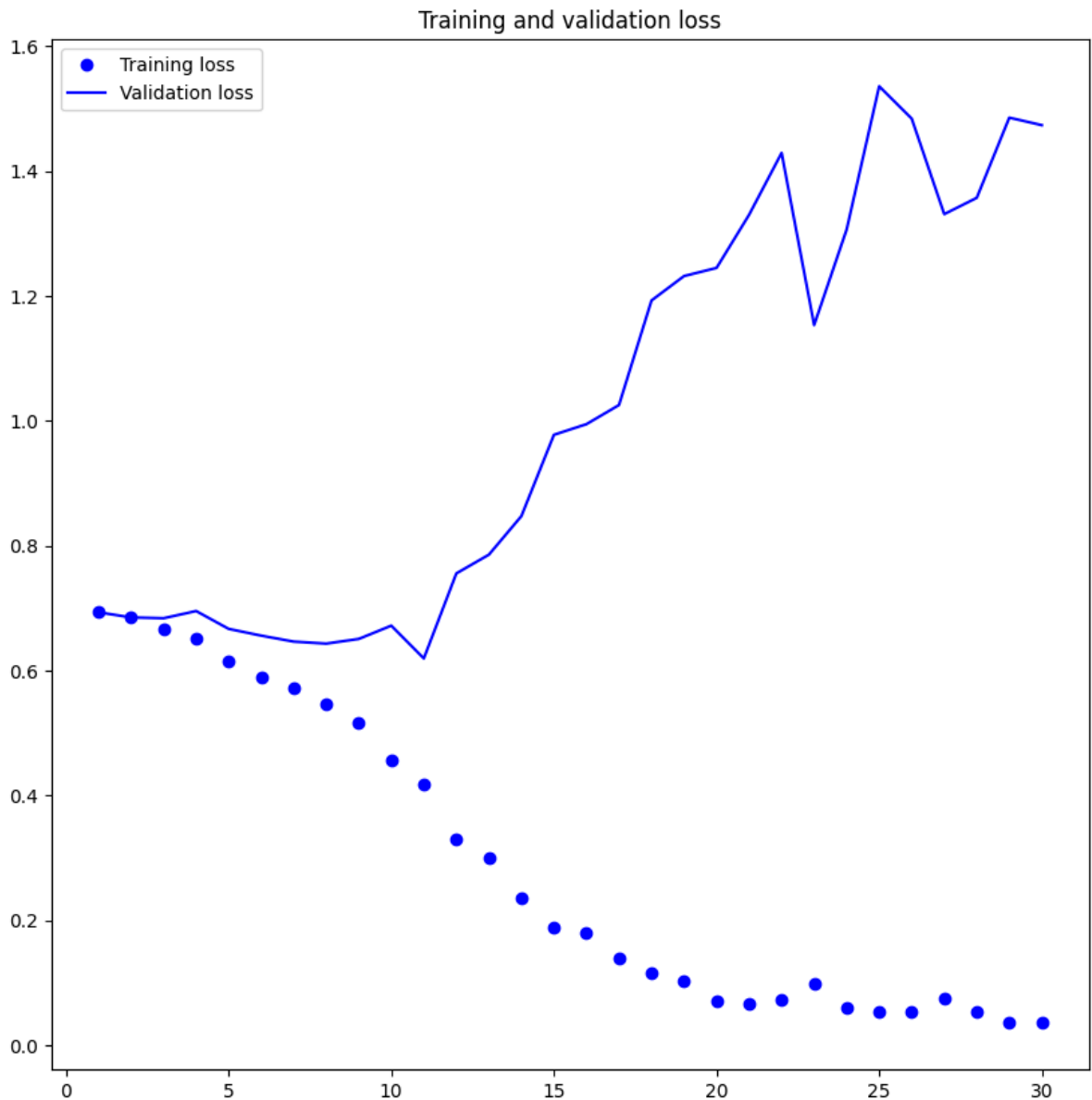
In [20]: import matplotlib.pyplot as plt

plt.figure(figsize=(10, 10))
accuracy = history.history["accuracy"]
val_accuracy = history.history["val_accuracy"]
loss = history.history["loss"]
val_loss = history.history["val_loss"]
epochs = range(1, len(accuracy) + 1)
plt.plot(epochs, accuracy, "bo", label="Training accuracy")
plt.plot(epochs, val_accuracy, "b", label="Validation accuracy")
plt.title("Training and validation accuracy")
plt.legend()
plt.figure()
plt.figure(figsize=(10, 10))
plt.plot(epochs, loss, "bo", label="Training loss")
plt.plot(epochs, val_loss, "b", label="Validation loss")
plt.title("Training and validation loss")
plt.legend()
plt.show()

```



<Figure size 640x480 with 0 Axes>



```
In [21]: test_model = keras.models.load_model("convnet_from_scratch.keras")
test_loss, test_acc = test_model.evaluate(testing_datasets)
print(f"Test accuracy: {test_acc:.3f}")
```

```
32/32 [=====] - 1s 7ms/step - loss: 0.6093 - accuracy: 0.6730
```

```
Test accuracy: 0.673
```

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?

```
In [22]: 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 [23]: data_augmentation = keras.Sequential(
    [
        layers.RandomFlip("horizontal"),
        layers.RandomRotation(0.1),
        layers.RandomZoom(0.2),
    ]
)

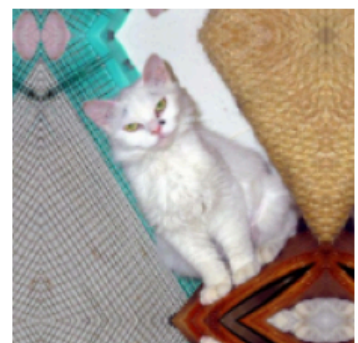
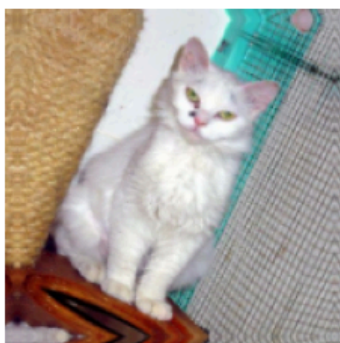
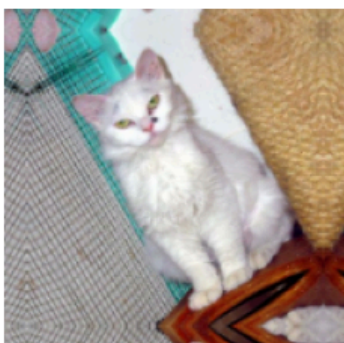
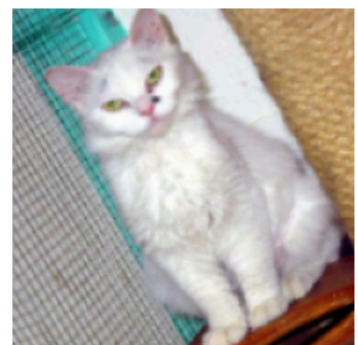
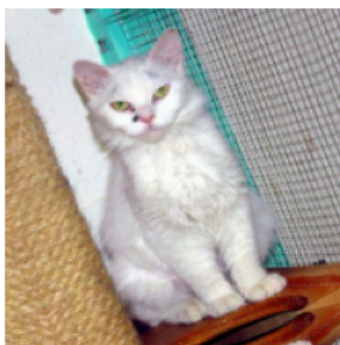
```

Display some randomly augmented training images

```

In [24]: plt.figure(figsize=(10, 10))
for images, _ in training_datasets.take(1):
    for i in range(9):
        augmented_images = data_augmentation(images)
        ax = plt.subplot(3, 3, i + 1)
        plt.imshow(augmented_images[0].numpy().astype("uint8"))
        plt.axis("off")

```



Defining a new convnet that includes image augmentation and dropout

```
In [25]: inputs = keras.Input(shape=(180, 180, 3))
x = data_augmentation(inputs)
x = layers.Rescaling(1./255)(x)
x = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(x)
x = layers.MaxPooling2D(pool_size=2)(x)
x = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(x)
x = layers.MaxPooling2D(pool_size=2)(x)
x = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(x)
x = layers.MaxPooling2D(pool_size=2)(x)
x = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(x)
x = layers.MaxPooling2D(pool_size=2)(x)
x = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(x)
x = layers.Flatten()(x)
x = layers.Dropout(0.5)(x)
outputs = layers.Dense(1, activation="sigmoid")(x)
model = keras.Model(inputs=inputs, outputs=outputs)

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

```
In [26]: callbacks = [
    keras.callbacks.ModelCheckpoint(
        filepath="convnet_from_scratch_with_augmentation.keras",
        save_best_only=True,
        monitor="val_loss")
]
history = model.fit(
    training_datasets,
    epochs=50,
    validation_data=valid_datasets,
    callbacks=callbacks)
```

Epoch 1/50
63/63 [=====] - 4s 21ms/step - loss: 0.6947 - accuracy: 0.5030 - val_loss: 0.6909 - val_accuracy: 0.5880
Epoch 2/50
63/63 [=====] - 1s 18ms/step - loss: 0.6858 - accuracy: 0.5535 - val_loss: 0.6674 - val_accuracy: 0.6060
Epoch 3/50
63/63 [=====] - 1s 18ms/step - loss: 0.6721 - accuracy: 0.5915 - val_loss: 0.6612 - val_accuracy: 0.6230
Epoch 4/50
63/63 [=====] - 1s 17ms/step - loss: 0.6447 - accuracy: 0.6330 - val_loss: 0.6907 - val_accuracy: 0.5980
Epoch 5/50
63/63 [=====] - 1s 18ms/step - loss: 0.6409 - accuracy: 0.6445 - val_loss: 0.6404 - val_accuracy: 0.6550
Epoch 6/50
63/63 [=====] - 1s 18ms/step - loss: 0.6339 - accuracy: 0.6305 - val_loss: 0.6402 - val_accuracy: 0.6400
Epoch 7/50
63/63 [=====] - 1s 16ms/step - loss: 0.6297 - accuracy: 0.6505 - val_loss: 0.6443 - val_accuracy: 0.6430
Epoch 8/50
63/63 [=====] - 1s 17ms/step - loss: 0.6206 - accuracy: 0.6680 - val_loss: 0.6827 - val_accuracy: 0.6340
Epoch 9/50
63/63 [=====] - 1s 16ms/step - loss: 0.6107 - accuracy: 0.6600 - val_loss: 0.7478 - val_accuracy: 0.5690
Epoch 10/50
63/63 [=====] - 1s 16ms/step - loss: 0.6164 - accuracy: 0.6620 - val_loss: 0.6500 - val_accuracy: 0.6560
Epoch 11/50
63/63 [=====] - 1s 17ms/step - loss: 0.6075 - accuracy: 0.6700 - val_loss: 0.6637 - val_accuracy: 0.6710
Epoch 12/50
63/63 [=====] - 1s 19ms/step - loss: 0.6064 - accuracy: 0.6685 - val_loss: 0.6291 - val_accuracy: 0.6530
Epoch 13/50
63/63 [=====] - 1s 19ms/step - loss: 0.6019 - accuracy: 0.6825 - val_loss: 0.6059 - val_accuracy: 0.6840
Epoch 14/50
63/63 [=====] - 1s 17ms/step - loss: 0.5841 - accuracy: 0.7025 - val_loss: 0.6363 - val_accuracy: 0.6620
Epoch 15/50
63/63 [=====] - 1s 19ms/step - loss: 0.5662 - accuracy: 0.7070 - val_loss: 0.5774 - val_accuracy: 0.7350
Epoch 16/50
63/63 [=====] - 1s 18ms/step - loss: 0.5565 - accuracy: 0.7255 - val_loss: 0.5690 - val_accuracy: 0.7210
Epoch 17/50
63/63 [=====] - 1s 18ms/step - loss: 0.5486 - accuracy: 0.7285 - val_loss: 0.5657 - val_accuracy: 0.7350
Epoch 18/50
63/63 [=====] - 1s 18ms/step - loss: 0.5354 - accuracy: 0.7405 - val_loss: 0.5553 - val_accuracy: 0.7460
Epoch 19/50
63/63 [=====] - 1s 16ms/step - loss: 0.4993 - accuracy: 0.7515 - val_loss: 0.5677 - val_accuracy: 0.7090
Epoch 20/50
63/63 [=====] - 1s 16ms/step - loss: 0.5100 - accuracy: 0.7345 - val_loss: 0.5991 - val_accuracy: 0.6940
Epoch 21/50
63/63 [=====] - 1s 18ms/step - loss: 0.5244 - accuracy: 0.7420 - val_loss: 0.5482 - val_accuracy: 0.7350
Epoch 22/50

63/63 [=====] - 1s 18ms/step - loss: 0.4888 - accuracy: 0.7610 - val_loss: 0.4924 - val_accuracy: 0.7690
Epoch 23/50
63/63 [=====] - 1s 16ms/step - loss: 0.4985 - accuracy: 0.7610 - val_loss: 0.6258 - val_accuracy: 0.7170
Epoch 24/50
63/63 [=====] - 1s 17ms/step - loss: 0.4810 - accuracy: 0.7680 - val_loss: 0.5127 - val_accuracy: 0.7720
Epoch 25/50
63/63 [=====] - 1s 17ms/step - loss: 0.4627 - accuracy: 0.7785 - val_loss: 0.4974 - val_accuracy: 0.7750
Epoch 26/50
63/63 [=====] - 1s 17ms/step - loss: 0.4408 - accuracy: 0.7970 - val_loss: 0.5052 - val_accuracy: 0.7740
Epoch 27/50
63/63 [=====] - 1s 17ms/step - loss: 0.4252 - accuracy: 0.8030 - val_loss: 0.4932 - val_accuracy: 0.7660
Epoch 28/50
63/63 [=====] - 1s 17ms/step - loss: 0.4293 - accuracy: 0.7995 - val_loss: 0.5202 - val_accuracy: 0.7570
Epoch 29/50
63/63 [=====] - 1s 19ms/step - loss: 0.4147 - accuracy: 0.8065 - val_loss: 0.4802 - val_accuracy: 0.7920
Epoch 30/50
63/63 [=====] - 1s 18ms/step - loss: 0.4196 - accuracy: 0.8135 - val_loss: 0.4653 - val_accuracy: 0.8040
Epoch 31/50
63/63 [=====] - 1s 16ms/step - loss: 0.3984 - accuracy: 0.8180 - val_loss: 0.4983 - val_accuracy: 0.7790
Epoch 32/50
63/63 [=====] - 1s 18ms/step - loss: 0.4029 - accuracy: 0.8340 - val_loss: 0.4506 - val_accuracy: 0.7970
Epoch 33/50
63/63 [=====] - 1s 17ms/step - loss: 0.3909 - accuracy: 0.8270 - val_loss: 0.4730 - val_accuracy: 0.7950
Epoch 34/50
63/63 [=====] - 1s 17ms/step - loss: 0.3766 - accuracy: 0.8340 - val_loss: 0.4678 - val_accuracy: 0.8050
Epoch 35/50
63/63 [=====] - 1s 18ms/step - loss: 0.3781 - accuracy: 0.8350 - val_loss: 0.4236 - val_accuracy: 0.8080
Epoch 36/50
63/63 [=====] - 1s 17ms/step - loss: 0.3704 - accuracy: 0.8245 - val_loss: 0.4933 - val_accuracy: 0.7970
Epoch 37/50
63/63 [=====] - 1s 17ms/step - loss: 0.3605 - accuracy: 0.8470 - val_loss: 0.4488 - val_accuracy: 0.7970
Epoch 38/50
63/63 [=====] - 1s 17ms/step - loss: 0.3709 - accuracy: 0.8370 - val_loss: 0.4565 - val_accuracy: 0.8130
Epoch 39/50
63/63 [=====] - 1s 18ms/step - loss: 0.3566 - accuracy: 0.8390 - val_loss: 0.4371 - val_accuracy: 0.8220
Epoch 40/50
63/63 [=====] - 1s 18ms/step - loss: 0.3475 - accuracy: 0.8385 - val_loss: 0.4251 - val_accuracy: 0.8070
Epoch 41/50
63/63 [=====] - 1s 19ms/step - loss: 0.3499 - accuracy: 0.8475 - val_loss: 0.4166 - val_accuracy: 0.8120
Epoch 42/50
63/63 [=====] - 1s 18ms/step - loss: 0.3482 - accuracy: 0.8510 - val_loss: 0.4213 - val_accuracy: 0.8050
Epoch 43/50
63/63 [=====] - 1s 17ms/step - loss: 0.3239 - accuracy:

```

0.8570 - val_loss: 0.4614 - val_accuracy: 0.8040
Epoch 44/50
63/63 [=====] - 1s 17ms/step - loss: 0.3201 - accuracy:
0.8580 - val_loss: 0.4428 - val_accuracy: 0.8200
Epoch 45/50
63/63 [=====] - 1s 17ms/step - loss: 0.2932 - accuracy:
0.8750 - val_loss: 0.4516 - val_accuracy: 0.8160
Epoch 46/50
63/63 [=====] - 1s 17ms/step - loss: 0.2732 - accuracy:
0.8815 - val_loss: 0.4551 - val_accuracy: 0.8140
Epoch 47/50
63/63 [=====] - 1s 16ms/step - loss: 0.2742 - accuracy:
0.8815 - val_loss: 0.4580 - val_accuracy: 0.8210
Epoch 48/50
63/63 [=====] - 1s 17ms/step - loss: 0.2875 - accuracy:
0.8770 - val_loss: 0.4472 - val_accuracy: 0.8020
Epoch 49/50
63/63 [=====] - 1s 17ms/step - loss: 0.2629 - accuracy:
0.8945 - val_loss: 0.4503 - val_accuracy: 0.8200
Epoch 50/50
63/63 [=====] - 1s 17ms/step - loss: 0.2576 - accuracy:
0.8865 - val_loss: 0.4284 - val_accuracy: 0.8140

```

Evaluating the model on the test set

```

In [27]: test_model = keras.models.load_model(
          "convnet_from_scratch_with_augmentation.keras")
          test_loss, test_acc = test_model.evaluate(testing_datasets)
          print(f"Test accuracy: {test_acc:.3f}")

32/32 [=====] - 1s 7ms/step - loss: 0.4169 - accuracy: 0.
8170
Test accuracy: 0.817

```

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.

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

```

In [28]: 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)

```

Defining a new convnet with increased training samples,image augmentation and dropout

```
In [29]: inputs = keras.Input(shape=(180, 180, 3))
x = data_augmentation(inputs)
x = layers.Rescaling(1./255)(x)
x = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(x)
x = layers.MaxPooling2D(pool_size=2)(x)
x = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(x)
x = layers.MaxPooling2D(pool_size=2)(x)
x = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(x)
x = layers.MaxPooling2D(pool_size=2)(x)
x = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(x)
x = layers.MaxPooling2D(pool_size=2)(x)
x = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(x)
x = layers.Flatten()(x)
x = layers.Dropout(0.5)(x)
outputs = layers.Dense(1, activation="sigmoid")(x)
model = keras.Model(inputs=inputs, outputs=outputs)

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

```
In [30]: callbacks = [
    keras.callbacks.ModelCheckpoint(
        filepath="convnet_from_scratch_with_augmentation1.keras",
        save_best_only=True,
        monitor="val_loss")
]
history = model.fit(
    training_datasets,
    epochs=50,
    validation_data=valid_datasets,
    callbacks=callbacks)
```

Epoch 1/50
63/63 [=====] - 4s 21ms/step - loss: 0.6961 - accuracy: 0.5055 - val_loss: 0.6929 - val_accuracy: 0.5000
Epoch 2/50
63/63 [=====] - 1s 18ms/step - loss: 0.6928 - accuracy: 0.5195 - val_loss: 0.6894 - val_accuracy: 0.5080
Epoch 3/50
63/63 [=====] - 1s 18ms/step - loss: 0.6911 - accuracy: 0.5140 - val_loss: 0.6865 - val_accuracy: 0.5380
Epoch 4/50
63/63 [=====] - 1s 18ms/step - loss: 0.6882 - accuracy: 0.5445 - val_loss: 0.6822 - val_accuracy: 0.5560
Epoch 5/50
63/63 [=====] - 1s 18ms/step - loss: 0.6858 - accuracy: 0.5370 - val_loss: 0.6789 - val_accuracy: 0.5790
Epoch 6/50
63/63 [=====] - 1s 17ms/step - loss: 0.6898 - accuracy: 0.5285 - val_loss: 0.6789 - val_accuracy: 0.6250
Epoch 7/50
63/63 [=====] - 1s 19ms/step - loss: 0.6742 - accuracy: 0.5705 - val_loss: 0.6636 - val_accuracy: 0.6120
Epoch 8/50
63/63 [=====] - 1s 19ms/step - loss: 0.6746 - accuracy: 0.6010 - val_loss: 0.6626 - val_accuracy: 0.6060
Epoch 9/50
63/63 [=====] - 1s 18ms/step - loss: 0.6596 - accuracy: 0.6120 - val_loss: 0.6409 - val_accuracy: 0.6580
Epoch 10/50
63/63 [=====] - 1s 18ms/step - loss: 0.6455 - accuracy: 0.6290 - val_loss: 0.6367 - val_accuracy: 0.6360
Epoch 11/50
63/63 [=====] - 1s 16ms/step - loss: 0.6622 - accuracy: 0.6210 - val_loss: 0.6425 - val_accuracy: 0.6230
Epoch 12/50
63/63 [=====] - 1s 18ms/step - loss: 0.6429 - accuracy: 0.6250 - val_loss: 0.6299 - val_accuracy: 0.6260
Epoch 13/50
63/63 [=====] - 1s 18ms/step - loss: 0.6211 - accuracy: 0.6660 - val_loss: 0.6172 - val_accuracy: 0.6700
Epoch 14/50
63/63 [=====] - 1s 16ms/step - loss: 0.6187 - accuracy: 0.6775 - val_loss: 0.6366 - val_accuracy: 0.6460
Epoch 15/50
63/63 [=====] - 1s 18ms/step - loss: 0.6052 - accuracy: 0.6735 - val_loss: 0.6063 - val_accuracy: 0.6730
Epoch 16/50
63/63 [=====] - 1s 18ms/step - loss: 0.5912 - accuracy: 0.6950 - val_loss: 0.5750 - val_accuracy: 0.6890
Epoch 17/50
63/63 [=====] - 1s 17ms/step - loss: 0.5734 - accuracy: 0.7075 - val_loss: 0.6235 - val_accuracy: 0.6870
Epoch 18/50
63/63 [=====] - 1s 17ms/step - loss: 0.5843 - accuracy: 0.6950 - val_loss: 0.6165 - val_accuracy: 0.6790
Epoch 19/50
63/63 [=====] - 1s 17ms/step - loss: 0.5654 - accuracy: 0.7035 - val_loss: 0.5886 - val_accuracy: 0.6960
Epoch 20/50
63/63 [=====] - 1s 18ms/step - loss: 0.5339 - accuracy: 0.7285 - val_loss: 0.5409 - val_accuracy: 0.7400
Epoch 21/50
63/63 [=====] - 1s 18ms/step - loss: 0.5189 - accuracy: 0.7410 - val_loss: 0.5280 - val_accuracy: 0.7460
Epoch 22/50

63/63 [=====] - 1s 17ms/step - loss: 0.5290 - accuracy: 0.7495 - val_loss: 0.5308 - val_accuracy: 0.7400
Epoch 23/50
63/63 [=====] - 1s 18ms/step - loss: 0.5219 - accuracy: 0.7425 - val_loss: 0.5280 - val_accuracy: 0.7440
Epoch 24/50
63/63 [=====] - 1s 18ms/step - loss: 0.4986 - accuracy: 0.7635 - val_loss: 0.5277 - val_accuracy: 0.7400
Epoch 25/50
63/63 [=====] - 1s 16ms/step - loss: 0.4911 - accuracy: 0.7645 - val_loss: 0.6224 - val_accuracy: 0.7030
Epoch 26/50
63/63 [=====] - 1s 18ms/step - loss: 0.4569 - accuracy: 0.7875 - val_loss: 0.4905 - val_accuracy: 0.7630
Epoch 27/50
63/63 [=====] - 1s 18ms/step - loss: 0.4701 - accuracy: 0.7695 - val_loss: 0.4711 - val_accuracy: 0.7650
Epoch 28/50
63/63 [=====] - 1s 16ms/step - loss: 0.4593 - accuracy: 0.7835 - val_loss: 0.5053 - val_accuracy: 0.7700
Epoch 29/50
63/63 [=====] - 1s 16ms/step - loss: 0.4392 - accuracy: 0.7965 - val_loss: 0.4947 - val_accuracy: 0.7770
Epoch 30/50
63/63 [=====] - 1s 16ms/step - loss: 0.4366 - accuracy: 0.7990 - val_loss: 0.6650 - val_accuracy: 0.6880
Epoch 31/50
63/63 [=====] - 1s 16ms/step - loss: 0.4474 - accuracy: 0.7830 - val_loss: 0.4967 - val_accuracy: 0.7720
Epoch 32/50
63/63 [=====] - 1s 17ms/step - loss: 0.4335 - accuracy: 0.7980 - val_loss: 0.4768 - val_accuracy: 0.7810
Epoch 33/50
63/63 [=====] - 1s 17ms/step - loss: 0.4085 - accuracy: 0.8095 - val_loss: 0.4935 - val_accuracy: 0.7710
Epoch 34/50
63/63 [=====] - 1s 18ms/step - loss: 0.4038 - accuracy: 0.8135 - val_loss: 0.4568 - val_accuracy: 0.7950
Epoch 35/50
63/63 [=====] - 1s 17ms/step - loss: 0.3876 - accuracy: 0.8305 - val_loss: 0.4861 - val_accuracy: 0.7730
Epoch 36/50
63/63 [=====] - 1s 17ms/step - loss: 0.3743 - accuracy: 0.8335 - val_loss: 0.4889 - val_accuracy: 0.8000
Epoch 37/50
63/63 [=====] - 1s 16ms/step - loss: 0.3749 - accuracy: 0.8350 - val_loss: 0.4657 - val_accuracy: 0.7960
Epoch 38/50
63/63 [=====] - 1s 16ms/step - loss: 0.3628 - accuracy: 0.8360 - val_loss: 0.4763 - val_accuracy: 0.7790
Epoch 39/50
63/63 [=====] - 1s 18ms/step - loss: 0.3785 - accuracy: 0.8265 - val_loss: 0.4531 - val_accuracy: 0.7920
Epoch 40/50
63/63 [=====] - 1s 17ms/step - loss: 0.3397 - accuracy: 0.8500 - val_loss: 0.4405 - val_accuracy: 0.8010
Epoch 41/50
63/63 [=====] - 1s 16ms/step - loss: 0.3466 - accuracy: 0.8415 - val_loss: 0.5223 - val_accuracy: 0.7900
Epoch 42/50
63/63 [=====] - 1s 16ms/step - loss: 0.3417 - accuracy: 0.8520 - val_loss: 0.4799 - val_accuracy: 0.7960
Epoch 43/50
63/63 [=====] - 1s 16ms/step - loss: 0.3225 - accuracy:

```

0.8610 - val_loss: 0.4670 - val_accuracy: 0.7880
Epoch 44/50
63/63 [=====] - 1s 16ms/step - loss: 0.3506 - accuracy:
0.8445 - val_loss: 0.4686 - val_accuracy: 0.8030
Epoch 45/50
63/63 [=====] - 1s 16ms/step - loss: 0.3199 - accuracy:
0.8585 - val_loss: 0.4413 - val_accuracy: 0.8080
Epoch 46/50
63/63 [=====] - 1s 16ms/step - loss: 0.3154 - accuracy:
0.8615 - val_loss: 0.4788 - val_accuracy: 0.7910
Epoch 47/50
63/63 [=====] - 1s 17ms/step - loss: 0.3073 - accuracy:
0.8680 - val_loss: 0.4559 - val_accuracy: 0.8130
Epoch 48/50
63/63 [=====] - 1s 17ms/step - loss: 0.3070 - accuracy:
0.8605 - val_loss: 0.4623 - val_accuracy: 0.7910
Epoch 49/50
63/63 [=====] - 1s 17ms/step - loss: 0.3168 - accuracy:
0.8655 - val_loss: 0.4819 - val_accuracy: 0.8080
Epoch 50/50
63/63 [=====] - 1s 17ms/step - loss: 0.2902 - accuracy:
0.8715 - val_loss: 0.4863 - val_accuracy: 0.8180

```

```

In [31]: test_model = keras.models.load_model(
          "convnet_from_scratch_with_augmentation1.keras")
test_loss, test_acc = test_model.evaluate(testing_datasets)
print(f"Test accuracy: {test_acc:.3f}")

32/32 [=====] - 1s 7ms/step - loss: 0.4733 - accuracy: 0.
8010
Test accuracy: 0.801

```

A simple convolutional neural network (convnet) was trained with 1,000 examples in the first phase, and it achieved a classification accuracy of about 70%. Overfitting was found to be the main cause for concern. To improve the model, optimisation techniques including data augmentation, early stopping, regularisation, and dropout were then used. By implementing data augmentation, the model's accuracy reached 80%, indicating a notable boost in performance. In order to improve classification accuracy even more after this improvement, efforts were focused on locating the best training samples. In order to combat overfitting, several strategies were investigated, including modifying the training set and using extra optimisation tools. They included adding weight regularisation, integrating dropout, decreasing the network's capacity, and expanding the training sample size. By reducing overfitting and enhancing the model's capacity for generalisation, these techniques were found to be successful.

Q4. Repeat Steps 1-3, but now using a pretrained network. The sample sizes you use in Steps 2 and 3 for the pretrained network may be the same or different from those using the network where you trained from scratch. Again, use any and all optimization techniques to get best performance.

Feature extraction with a pretrained model

Instantiating the VGG16 convolutional base

```

In [32]: convolution_base = keras.applications.vgg16.VGG16(
          weights="imagenet",
          include_top=False,
          input_shape=(180, 180, 3))

```


Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/vgg16/vgg16_weights_tf_dim_ordering_tf_kernels_notop.h5
58889256/58889256 [=====] - 0s 0us/step

```
In [ ]: convolution_base.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)		

Feature extraction without data augmentation using a pretrained model

Extracting the VGG16 features and corresponding labels

```
In [33]: import numpy as np

def get_features_and_labels(dataset):
    all_features = []
    all_labels = []
```

```
for images, labels in dataset:
    preprocessed_images = keras.applications.vgg16.preprocess_input(images)
    features = convolution_base.predict(preprocessed_images)
    all_features.append(features)
    all_labels.append(labels)
return np.concatenate(all_features), np.concatenate(all_labels)

train_features, train_labels = get_features_and_labels(training_datasets)
val_features, val_labels = get_features_and_labels(valid_datasets)
test_features, test_labels = get_features_and_labels(testing_datasets)
```

1/1 [=====] - 0s 24ms/step

1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 24ms/step
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1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 29ms/step
1/1 [=====] - 0s 29ms/step
1/1 [=====] - 0s 30ms/step
1/1 [=====] - 0s 29ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 24ms/step
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1/1 [=====] - 0s 23ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 33ms/step
1/1 [=====] - 0s 24ms/step
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1/1 [=====] - 0s 23ms/step
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1/1 [=====] - 0s 26ms/step
1/1 [=====] - 0s 26ms/step
1/1 [=====] - 0s 29ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 24ms/step
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1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 29ms/step
1/1 [=====] - 0s 25ms/step
1/1 [=====] - 0s 32ms/step
1/1 [=====] - 0s 30ms/step
1/1 [=====] - 0s 30ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 24ms/step
1/1 [=====] - 0s 21ms/step

```
In [34]: train_features.shape
```

```
Out[34]: (2000, 5, 5, 512)
```

Defining and training the densely connected classifier

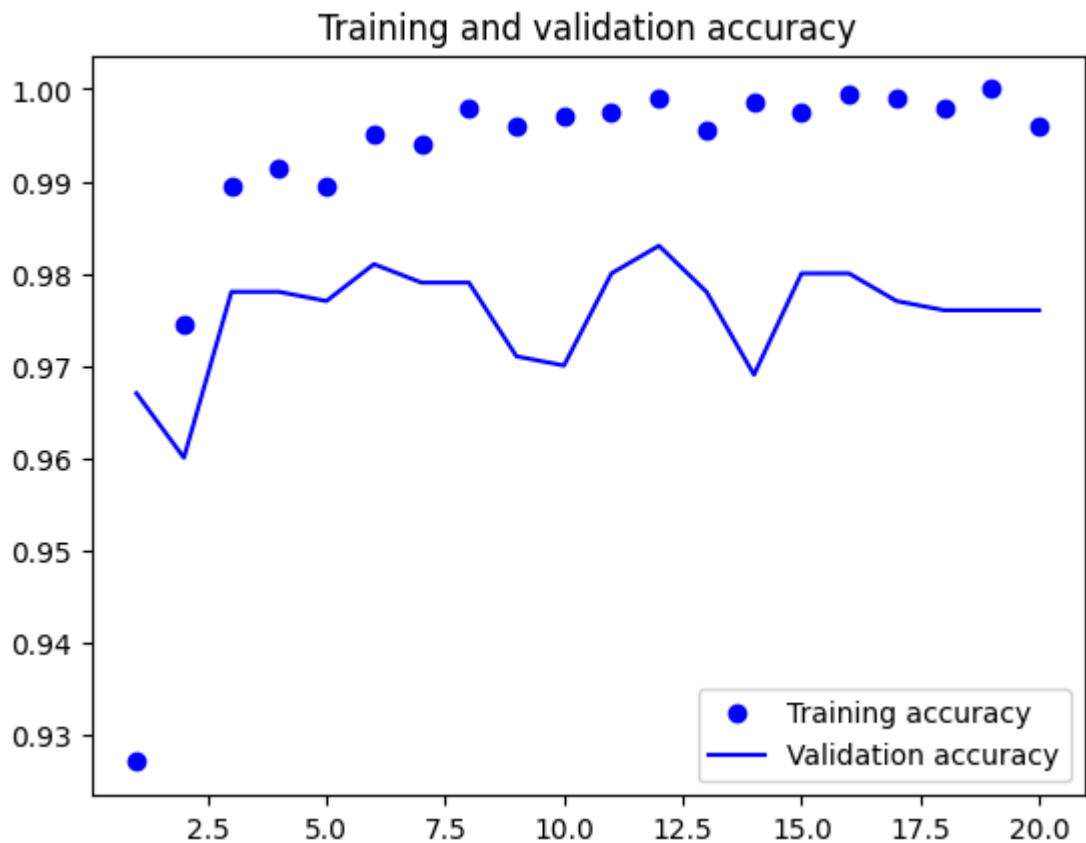
```
In [35]: inputs = keras.Input(shape=(5, 5, 512))
x = layers.Flatten()(inputs)
x = layers.Dense(256)(x)
x = layers.Dropout(0.5)(x)
outputs = layers.Dense(1, activation="sigmoid")(x)
model = keras.Model(inputs, outputs)
model.compile(loss="binary_crossentropy",
              optimizer="rmsprop",
              metrics=["accuracy"])

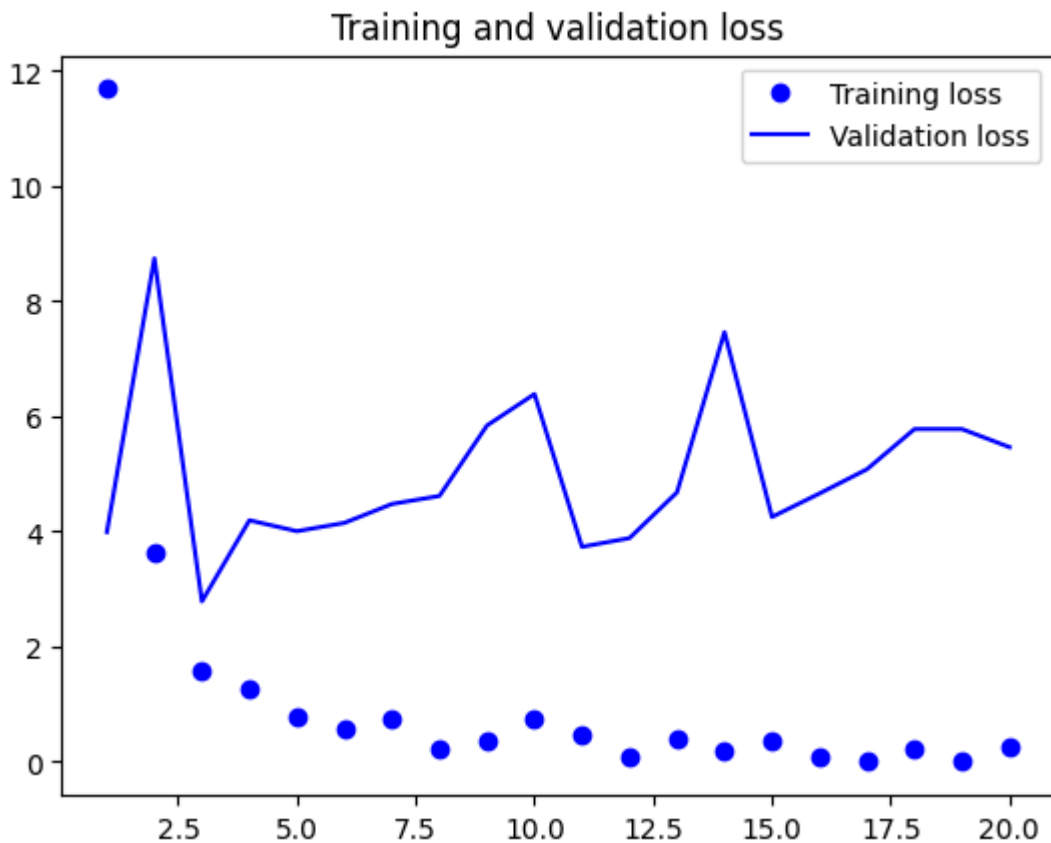
callbacks = [
    keras.callbacks.ModelCheckpoint(
        filepath="feature_extraction.keras",
        save_best_only=True,
        monitor="val_loss")
]
history = model.fit(
    train_features, train_labels,
    epochs=20,
    validation_data=(val_features, val_labels),
    callbacks=callbacks)
```

Epoch 1/20
63/63 [=====] - 1s 9ms/step - loss: 11.6859 - accuracy: 0.9270 - val_loss: 3.9916 - val_accuracy: 0.9670
Epoch 2/20
63/63 [=====] - 0s 4ms/step - loss: 3.6200 - accuracy: 0.9745 - val_loss: 8.7446 - val_accuracy: 0.9600
Epoch 3/20
63/63 [=====] - 0s 6ms/step - loss: 1.5690 - accuracy: 0.9895 - val_loss: 2.7876 - val_accuracy: 0.9780
Epoch 4/20
63/63 [=====] - 0s 4ms/step - loss: 1.2622 - accuracy: 0.9915 - val_loss: 4.1953 - val_accuracy: 0.9780
Epoch 5/20
63/63 [=====] - 0s 4ms/step - loss: 0.7950 - accuracy: 0.9895 - val_loss: 4.0060 - val_accuracy: 0.9770
Epoch 6/20
63/63 [=====] - 0s 4ms/step - loss: 0.5633 - accuracy: 0.9950 - val_loss: 4.1504 - val_accuracy: 0.9810
Epoch 7/20
63/63 [=====] - 0s 4ms/step - loss: 0.7477 - accuracy: 0.9940 - val_loss: 4.4786 - val_accuracy: 0.9790
Epoch 8/20
63/63 [=====] - 0s 4ms/step - loss: 0.2188 - accuracy: 0.9980 - val_loss: 4.6182 - val_accuracy: 0.9790
Epoch 9/20
63/63 [=====] - 0s 5ms/step - loss: 0.3759 - accuracy: 0.9960 - val_loss: 5.8414 - val_accuracy: 0.9710
Epoch 10/20
63/63 [=====] - 0s 4ms/step - loss: 0.7579 - accuracy: 0.9970 - val_loss: 6.3881 - val_accuracy: 0.9700
Epoch 11/20
63/63 [=====] - 0s 4ms/step - loss: 0.4807 - accuracy: 0.9975 - val_loss: 3.7349 - val_accuracy: 0.9800
Epoch 12/20
63/63 [=====] - 0s 4ms/step - loss: 0.0891 - accuracy: 0.9990 - val_loss: 3.8855 - val_accuracy: 0.9830
Epoch 13/20
63/63 [=====] - 0s 5ms/step - loss: 0.3931 - accuracy: 0.9955 - val_loss: 4.6805 - val_accuracy: 0.9780
Epoch 14/20
63/63 [=====] - 0s 4ms/step - loss: 0.1893 - accuracy: 0.9985 - val_loss: 7.4637 - val_accuracy: 0.9690
Epoch 15/20
63/63 [=====] - 0s 4ms/step - loss: 0.3693 - accuracy: 0.9975 - val_loss: 4.2531 - val_accuracy: 0.9800
Epoch 16/20
63/63 [=====] - 0s 4ms/step - loss: 0.0770 - accuracy: 0.9995 - val_loss: 4.6612 - val_accuracy: 0.9800
Epoch 17/20
63/63 [=====] - 0s 4ms/step - loss: 0.0194 - accuracy: 0.9990 - val_loss: 5.0824 - val_accuracy: 0.9770
Epoch 18/20
63/63 [=====] - 0s 4ms/step - loss: 0.2133 - accuracy: 0.9980 - val_loss: 5.7802 - val_accuracy: 0.9760
Epoch 19/20
63/63 [=====] - 0s 4ms/step - loss: 1.0220e-09 - accuracy: 1.0000 - val_loss: 5.7796 - val_accuracy: 0.9760
Epoch 20/20
63/63 [=====] - 0s 5ms/step - loss: 0.2448 - accuracy: 0.9960 - val_loss: 5.4655 - val_accuracy: 0.9760

Plot the results

```
In [36]: import matplotlib.pyplot as plt
acc = history.history["accuracy"]
val_acc = history.history["val_accuracy"]
loss = history.history["loss"]
val_loss = history.history["val_loss"]
epochs = range(1, len(acc) + 1)
plt.plot(epochs, acc, "bo", label="Training accuracy")
plt.plot(epochs, val_acc, "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, val_loss, "b", label="Validation loss")
plt.title("Training and validation loss")
plt.legend()
plt.show()
```





Feature extraction with data augmentation using a pretrained model

Instantiating and freezing the VGG16 convolutional base

```
In [37]: convolution_base = keras.applications.vgg16.VGG16(
          weights="imagenet",
          include_top=False)
          convolution_base.trainable = False
```

```
In [39]: convolution_base.trainable = True
          print("This is the number of trainable weights "
                "before freezing the conv base:", len(convolution_base.trainable_weights))
```

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

```
In [40]: convolution_base.trainable = False
          print("This is the number of trainable weights "
                "after freezing the conv base:", len(convolution_base.trainable_weights))
```

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

Adding a data augmentation stage and a classifier to the convolutional base

```
In [41]: augmentation2 = keras.Sequential(
          [
            layers.RandomFlip("horizontal"),
            layers.RandomRotation(0.1),
            layers.RandomZoom(0.2),
          ]
        )
          input22 = keras.Input(shape=(180, 180, 3))
          x1 = augmentation2(input22)
          x1 = keras.layers.Lambda(
              lambda x: keras.applications.vgg16.preprocess_input(x))(x1)
          x1 = convolution_base(x1)
```



```
x1 = layers.Flatten()(x1)
x1 = layers.Dense(256)(x1)
x1 = layers.Dropout(0.5)(x1)
outputs = layers.Dense(1, activation="sigmoid")(x1)
model = keras.Model(input22, outputs)
model.compile(loss="binary_crossentropy",
optimizer="rmsprop",
metrics=["accuracy"])
```

```
In [42]: callbacks = [
    keras.callbacks.ModelCheckpoint(
        filepath="feature_extraction_with_data_augmentation.keras",
        save_best_only=True,
        monitor="val_loss")
]
history = model.fit(
    training_datasets,
    epochs=50,
    validation_data=valid_datasets,
    callbacks=callbacks)
```

Epoch 1/50
63/63 [=====] - 4s 38ms/step - loss: 27.3247 - accuracy: 0.8835 - val_loss: 12.5715 - val_accuracy: 0.9330
Epoch 2/50
63/63 [=====] - 2s 28ms/step - loss: 7.2298 - accuracy: 0.9505 - val_loss: 19.3305 - val_accuracy: 0.9120
Epoch 3/50
63/63 [=====] - 2s 35ms/step - loss: 6.5287 - accuracy: 0.9550 - val_loss: 4.5673 - val_accuracy: 0.9730
Epoch 4/50
63/63 [=====] - 2s 34ms/step - loss: 4.8890 - accuracy: 0.9630 - val_loss: 4.5106 - val_accuracy: 0.9740
Epoch 5/50
63/63 [=====] - 2s 35ms/step - loss: 3.7784 - accuracy: 0.9655 - val_loss: 2.2957 - val_accuracy: 0.9820
Epoch 6/50
63/63 [=====] - 2s 28ms/step - loss: 4.3997 - accuracy: 0.9655 - val_loss: 2.8734 - val_accuracy: 0.9820
Epoch 7/50
63/63 [=====] - 2s 27ms/step - loss: 3.3774 - accuracy: 0.9695 - val_loss: 4.8522 - val_accuracy: 0.9670
Epoch 8/50
63/63 [=====] - 2s 28ms/step - loss: 4.6655 - accuracy: 0.9650 - val_loss: 3.0557 - val_accuracy: 0.9860
Epoch 9/50
63/63 [=====] - 2s 28ms/step - loss: 2.6864 - accuracy: 0.9740 - val_loss: 2.8496 - val_accuracy: 0.9830
Epoch 10/50
63/63 [=====] - 2s 28ms/step - loss: 1.7145 - accuracy: 0.9790 - val_loss: 5.7142 - val_accuracy: 0.9700
Epoch 11/50
63/63 [=====] - 2s 28ms/step - loss: 2.4142 - accuracy: 0.9755 - val_loss: 2.4987 - val_accuracy: 0.9820
Epoch 12/50
63/63 [=====] - 2s 28ms/step - loss: 2.1935 - accuracy: 0.9780 - val_loss: 2.5653 - val_accuracy: 0.9820
Epoch 13/50
63/63 [=====] - 2s 27ms/step - loss: 2.0375 - accuracy: 0.9770 - val_loss: 3.9650 - val_accuracy: 0.9750
Epoch 14/50
63/63 [=====] - 2s 27ms/step - loss: 2.1808 - accuracy: 0.9770 - val_loss: 3.3794 - val_accuracy: 0.9770
Epoch 15/50
63/63 [=====] - 2s 28ms/step - loss: 1.7735 - accuracy: 0.9825 - val_loss: 2.4793 - val_accuracy: 0.9800
Epoch 16/50
63/63 [=====] - 2s 27ms/step - loss: 1.7489 - accuracy: 0.9740 - val_loss: 2.3834 - val_accuracy: 0.9810
Epoch 17/50
63/63 [=====] - 2s 28ms/step - loss: 1.1833 - accuracy: 0.9785 - val_loss: 2.5114 - val_accuracy: 0.9810
Epoch 18/50
63/63 [=====] - 2s 28ms/step - loss: 1.7306 - accuracy: 0.9765 - val_loss: 4.6437 - val_accuracy: 0.9720
Epoch 19/50
63/63 [=====] - 2s 34ms/step - loss: 1.7864 - accuracy: 0.9800 - val_loss: 1.6652 - val_accuracy: 0.9820
Epoch 20/50
63/63 [=====] - 2s 28ms/step - loss: 0.9366 - accuracy: 0.9865 - val_loss: 4.9521 - val_accuracy: 0.9680
Epoch 21/50
63/63 [=====] - 2s 28ms/step - loss: 1.4554 - accuracy: 0.9805 - val_loss: 2.6013 - val_accuracy: 0.9790
Epoch 22/50

63/63 [=====] - 2s 27ms/step - loss: 1.0479 - accuracy: 0.9800 - val_loss: 2.4307 - val_accuracy: 0.9790
Epoch 23/50
63/63 [=====] - 2s 28ms/step - loss: 0.6693 - accuracy: 0.9880 - val_loss: 2.9397 - val_accuracy: 0.9760
Epoch 24/50
63/63 [=====] - 2s 28ms/step - loss: 0.9943 - accuracy: 0.9825 - val_loss: 2.4133 - val_accuracy: 0.9800
Epoch 25/50
63/63 [=====] - 2s 28ms/step - loss: 0.7520 - accuracy: 0.9840 - val_loss: 2.0440 - val_accuracy: 0.9830
Epoch 26/50
63/63 [=====] - 2s 28ms/step - loss: 0.9370 - accuracy: 0.9835 - val_loss: 2.4063 - val_accuracy: 0.9780
Epoch 27/50
63/63 [=====] - 2s 28ms/step - loss: 1.1855 - accuracy: 0.9815 - val_loss: 1.8439 - val_accuracy: 0.9800
Epoch 28/50
63/63 [=====] - 2s 35ms/step - loss: 0.7571 - accuracy: 0.9845 - val_loss: 1.5188 - val_accuracy: 0.9810
Epoch 29/50
63/63 [=====] - 2s 28ms/step - loss: 0.8915 - accuracy: 0.9850 - val_loss: 1.6826 - val_accuracy: 0.9830
Epoch 30/50
63/63 [=====] - 2s 34ms/step - loss: 0.7123 - accuracy: 0.9825 - val_loss: 1.2195 - val_accuracy: 0.9830
Epoch 31/50
63/63 [=====] - 2s 34ms/step - loss: 0.4742 - accuracy: 0.9920 - val_loss: 1.0346 - val_accuracy: 0.9840
Epoch 32/50
63/63 [=====] - 2s 28ms/step - loss: 0.8664 - accuracy: 0.9855 - val_loss: 1.2807 - val_accuracy: 0.9840
Epoch 33/50
63/63 [=====] - 2s 28ms/step - loss: 0.6950 - accuracy: 0.9875 - val_loss: 1.3634 - val_accuracy: 0.9830
Epoch 34/50
63/63 [=====] - 2s 28ms/step - loss: 1.1008 - accuracy: 0.9790 - val_loss: 1.4107 - val_accuracy: 0.9820
Epoch 35/50
63/63 [=====] - 2s 28ms/step - loss: 0.8762 - accuracy: 0.9820 - val_loss: 1.3989 - val_accuracy: 0.9820
Epoch 36/50
63/63 [=====] - 2s 28ms/step - loss: 0.4522 - accuracy: 0.9890 - val_loss: 1.4284 - val_accuracy: 0.9810
Epoch 37/50
63/63 [=====] - 2s 28ms/step - loss: 0.4772 - accuracy: 0.9870 - val_loss: 1.3235 - val_accuracy: 0.9800
Epoch 38/50
63/63 [=====] - 2s 28ms/step - loss: 0.5073 - accuracy: 0.9820 - val_loss: 1.3820 - val_accuracy: 0.9860
Epoch 39/50
63/63 [=====] - 2s 27ms/step - loss: 0.4729 - accuracy: 0.9840 - val_loss: 1.4312 - val_accuracy: 0.9830
Epoch 40/50
63/63 [=====] - 2s 28ms/step - loss: 0.3839 - accuracy: 0.9900 - val_loss: 3.0758 - val_accuracy: 0.9740
Epoch 41/50
63/63 [=====] - 2s 28ms/step - loss: 0.5142 - accuracy: 0.9865 - val_loss: 1.8887 - val_accuracy: 0.9830
Epoch 42/50
63/63 [=====] - 2s 28ms/step - loss: 0.6147 - accuracy: 0.9855 - val_loss: 2.0303 - val_accuracy: 0.9800
Epoch 43/50
63/63 [=====] - 2s 28ms/step - loss: 0.2492 - accuracy:

```

0.9930 - val_loss: 1.6009 - val_accuracy: 0.9820
Epoch 44/50
63/63 [=====] - 2s 29ms/step - loss: 0.4795 - accuracy:
0.9865 - val_loss: 2.1461 - val_accuracy: 0.9790
Epoch 45/50
63/63 [=====] - 2s 28ms/step - loss: 0.3600 - accuracy:
0.9940 - val_loss: 1.6653 - val_accuracy: 0.9790
Epoch 46/50
63/63 [=====] - 2s 28ms/step - loss: 0.4117 - accuracy:
0.9860 - val_loss: 1.6768 - val_accuracy: 0.9780
Epoch 47/50
63/63 [=====] - 2s 27ms/step - loss: 0.7265 - accuracy:
0.9850 - val_loss: 1.4756 - val_accuracy: 0.9830
Epoch 48/50
63/63 [=====] - 2s 28ms/step - loss: 0.5779 - accuracy:
0.9870 - val_loss: 2.0025 - val_accuracy: 0.9750
Epoch 49/50
63/63 [=====] - 2s 28ms/step - loss: 0.6140 - accuracy:
0.9840 - val_loss: 1.5809 - val_accuracy: 0.9780
Epoch 50/50
63/63 [=====] - 2s 28ms/step - loss: 0.5698 - accuracy:
0.9870 - val_loss: 1.1620 - val_accuracy: 0.9850

```

Evaluating the model on the test set

```

In [43]: test_model = keras.models.load_model(
         "feature_extraction_with_data_augmentation.keras", safe_mode=False)
         test_loss, test_acc = test_model.evaluate(testing_datasets)
         print(f"Test accuracy: {test_acc:.3f}")

```

```

32/32 [=====] - 1s 17ms/step - loss: 3.5184 - accuracy:
0.9750
Test accuracy: 0.975

```

A pretrained VGG16 model with Fine-tuning

Fine-tuning entails unfreezing a few top layers of a frozen model foundation used for feature extraction and training both the newly added element of the model (in this case, the fully connected classifier) and these top layers at the same time. This is referred to as fine-tuning because it modifies the more abstract representations of the model that are being reused to make them more relevant to the task at hand.

```

In [44]: convolution_base.summary()

```

Model: "vgg16"

Layer (type)	Output Shape	Param #
=====		
input_6 (InputLayer)	[(None, None, None, 3)]	0
block1_conv1 (Conv2D)	(None, None, None, 64)	1792
block1_conv2 (Conv2D)	(None, None, None, 64)	36928
block1_pool (MaxPooling2D)	(None, None, None, 64)	0
block2_conv1 (Conv2D)	(None, None, None, 128)	73856
block2_conv2 (Conv2D)	(None, None, None, 128)	147584
block2_pool (MaxPooling2D)	(None, None, None, 128)	0
block3_conv1 (Conv2D)	(None, None, None, 256)	295168
block3_conv2 (Conv2D)	(None, None, None, 256)	590080
block3_conv3 (Conv2D)	(None, None, None, 256)	590080
block3_pool (MaxPooling2D)	(None, None, None, 256)	0
block4_conv1 (Conv2D)	(None, None, None, 512)	1180160
block4_conv2 (Conv2D)	(None, None, None, 512)	2359808
block4_conv3 (Conv2D)	(None, None, None, 512)	2359808
block4_pool (MaxPooling2D)	(None, None, None, 512)	0
block5_conv1 (Conv2D)	(None, None, None, 512)	2359808
block5_conv2 (Conv2D)	(None, None, None, 512)	2359808
block5_conv3 (Conv2D)	(None, None, None, 512)	2359808
block5_pool (MaxPooling2D)	(None, None, None, 512)	0
=====		
Total params: 14714688 (56.13 MB)		
Trainable params: 0 (0.00 Byte)		
Non-trainable params: 14714688 (56.13 MB)		

```
In [45]: convolution_base.trainable = True
         for layer in convolution_base.layers[:-4]:
             layer.trainable = False
```

Fine-tuning the model

```
In [46]: model.compile(loss="binary_crossentropy",
                       optimizer=keras.optimizers.RMSprop(learning_rate=1e-5),
                       metrics=["accuracy"])

callbacks = [
    keras.callbacks.ModelCheckpoint(
        filepath="fine_tuning.keras",
        save_best_only=True,
        monitor="val_loss")
]
```

```
]
history = model.fit(
    training_datasets,
    epochs=30,
    validation_data=valid_datasets,
    callbacks=callbacks)
```

Epoch 1/30
63/63 [=====] - 5s 43ms/step - loss: 0.4846 - accuracy: 0.9885 - val_loss: 1.5362 - val_accuracy: 0.9820
Epoch 2/30
63/63 [=====] - 2s 35ms/step - loss: 0.4957 - accuracy: 0.9885 - val_loss: 1.4219 - val_accuracy: 0.9810
Epoch 3/30
63/63 [=====] - 2s 26ms/step - loss: 0.2054 - accuracy: 0.9935 - val_loss: 1.5086 - val_accuracy: 0.9780
Epoch 4/30
63/63 [=====] - 2s 35ms/step - loss: 0.3153 - accuracy: 0.9900 - val_loss: 1.3695 - val_accuracy: 0.9840
Epoch 5/30
63/63 [=====] - 2s 27ms/step - loss: 0.2380 - accuracy: 0.9915 - val_loss: 2.0523 - val_accuracy: 0.9780
Epoch 6/30
63/63 [=====] - 2s 27ms/step - loss: 0.2246 - accuracy: 0.9930 - val_loss: 1.3737 - val_accuracy: 0.9840
Epoch 7/30
63/63 [=====] - 2s 34ms/step - loss: 0.3267 - accuracy: 0.9940 - val_loss: 1.3592 - val_accuracy: 0.9880
Epoch 8/30
63/63 [=====] - 2s 26ms/step - loss: 0.1374 - accuracy: 0.9935 - val_loss: 1.3623 - val_accuracy: 0.9830
Epoch 9/30
63/63 [=====] - 2s 35ms/step - loss: 0.2157 - accuracy: 0.9925 - val_loss: 1.3492 - val_accuracy: 0.9850
Epoch 10/30
63/63 [=====] - 2s 35ms/step - loss: 0.1085 - accuracy: 0.9960 - val_loss: 1.1294 - val_accuracy: 0.9880
Epoch 11/30
63/63 [=====] - 2s 26ms/step - loss: 0.0283 - accuracy: 0.9975 - val_loss: 1.1505 - val_accuracy: 0.9890
Epoch 12/30
63/63 [=====] - 2s 26ms/step - loss: 0.2375 - accuracy: 0.9940 - val_loss: 1.2978 - val_accuracy: 0.9860
Epoch 13/30
63/63 [=====] - 2s 26ms/step - loss: 0.2402 - accuracy: 0.9940 - val_loss: 1.7496 - val_accuracy: 0.9800
Epoch 14/30
63/63 [=====] - 2s 27ms/step - loss: 0.2031 - accuracy: 0.9945 - val_loss: 1.3023 - val_accuracy: 0.9830
Epoch 15/30
63/63 [=====] - 2s 27ms/step - loss: 0.1539 - accuracy: 0.9950 - val_loss: 1.4386 - val_accuracy: 0.9830
Epoch 16/30
63/63 [=====] - 2s 27ms/step - loss: 0.2874 - accuracy: 0.9935 - val_loss: 1.3548 - val_accuracy: 0.9840
Epoch 17/30
63/63 [=====] - 2s 27ms/step - loss: 0.0984 - accuracy: 0.9955 - val_loss: 1.1793 - val_accuracy: 0.9830
Epoch 18/30
63/63 [=====] - 2s 35ms/step - loss: 0.1352 - accuracy: 0.9950 - val_loss: 1.1172 - val_accuracy: 0.9840
Epoch 19/30
63/63 [=====] - 2s 27ms/step - loss: 0.1054 - accuracy: 0.9945 - val_loss: 1.4955 - val_accuracy: 0.9810
Epoch 20/30
63/63 [=====] - 2s 26ms/step - loss: 0.0273 - accuracy: 0.9975 - val_loss: 1.3001 - val_accuracy: 0.9830
Epoch 21/30
63/63 [=====] - 2s 26ms/step - loss: 0.2185 - accuracy: 0.9935 - val_loss: 1.5934 - val_accuracy: 0.9810
Epoch 22/30

```

63/63 [=====] - 2s 27ms/step - loss: 0.1193 - accuracy:
0.9940 - val_loss: 1.1595 - val_accuracy: 0.9870
Epoch 23/30
63/63 [=====] - 2s 27ms/step - loss: 0.2087 - accuracy:
0.9950 - val_loss: 1.2913 - val_accuracy: 0.9840
Epoch 24/30
63/63 [=====] - 2s 27ms/step - loss: 0.0179 - accuracy:
0.9985 - val_loss: 1.1781 - val_accuracy: 0.9890
Epoch 25/30
63/63 [=====] - 2s 26ms/step - loss: 0.1361 - accuracy:
0.9965 - val_loss: 1.1303 - val_accuracy: 0.9870
Epoch 26/30
63/63 [=====] - 2s 26ms/step - loss: 0.0239 - accuracy:
0.9980 - val_loss: 1.1425 - val_accuracy: 0.9870
Epoch 27/30
63/63 [=====] - 2s 26ms/step - loss: 0.0420 - accuracy:
0.9975 - val_loss: 1.2429 - val_accuracy: 0.9830
Epoch 28/30
63/63 [=====] - 2s 26ms/step - loss: 0.0958 - accuracy:
0.9965 - val_loss: 1.4917 - val_accuracy: 0.9790
Epoch 29/30
63/63 [=====] - 2s 26ms/step - loss: 0.0587 - accuracy:
0.9965 - val_loss: 1.1475 - val_accuracy: 0.9860
Epoch 30/30
63/63 [=====] - 2s 26ms/step - loss: 0.1359 - accuracy:
0.9960 - val_loss: 1.3562 - val_accuracy: 0.9830

```

```

In [47]: model = keras.models.load_model("fine_tuning.keras", safe_mode=False)
test_loss, test_acc = model.evaluate(testing_datasets)
print(f"Test accuracy: {test_acc:.3f}")

```

```

32/32 [=====] - 1s 17ms/step - loss: 2.2150 - accuracy:
0.9730
Test accuracy: 0.973

```