assignment-2

October 20, 2024

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[]: from google.colab import files
     files.upload()
    <IPython.core.display.HTML object>
    Saving dogs-vs-cats.zip to dogs-vs-cats.zip
[7]: from google.colab import drive
     drive.mount('/content/drive')
    Mounted at /content/drive
[8]: 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
[9]: !unzip /content/train.zip
    Streaming output truncated to the last 5000 lines.
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       inflating: train/dog.9986.jpg
       inflating: train/dog.9987.jpg
       inflating: train/dog.9988.jpg
       inflating: train/dog.9989.jpg
       inflating: train/dog.999.jpg
       inflating: train/dog.9990.jpg
       inflating: train/dog.9991.jpg
       inflating: train/dog.9992.jpg
       inflating: train/dog.9993.jpg
       inflating: train/dog.9994.jpg
       inflating: train/dog.9995.jpg
       inflating: train/dog.9996.jpg
       inflating: train/dog.9997.jpg
       inflating: train/dog.9998.jpg
       inflating: train/dog.9999.jpg
[38]: import os, shutil, pathlib
     src_dir_ = pathlib.Path("train")
     tgt_base_dir = pathlib.Path("cats_vs_dogs_small_1")
     def creatingSubset(setType, idx_start, idx_end):
         for a in ("cat", "dog"):
```

inflating: train/dog.9964.jpg

```
[39]: from tensorflow import keras
      from tensorflow.keras import layers
      ipt = keras.Input(shape=(180, 180, 3))
      z = layers.Rescaling(1./255)(ipt)
      z = layers.Conv2D(filters=32, kernel size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.Flatten()(z)
      oput = layers.Dense(1, activation="sigmoid")(z)
      mdl = keras.Model(inputs=ipt, outputs=oput)
```

[40]: mdl.summary()

Model: "functional_7"

```
Layer (type)

Param #

input_layer_4 (InputLayer)

rescaling_3 (Rescaling)

O

Conv2d_15 (Conv2D)

None, 178, 178, 32)

896
```

```
max_pooling2d_12 (MaxPooling2D)
                                             (None, 89, 89, 32)
                                                                                       Ш
      → 0
      conv2d_16 (Conv2D)
                                              (None, 87, 87, 64)
                                                                                    Ш
      max_pooling2d_13 (MaxPooling2D)
                                              (None, 43, 43, 64)
                                                                                       Ш
      → 0
      conv2d_17 (Conv2D)
                                              (None, 41, 41, 128)
                                                                                    Ш
      ⊶73,856
      max_pooling2d_14 (MaxPooling2D)
                                              (None, 20, 20, 128)
                                                                                        П
      → 0
      conv2d_18 (Conv2D)
                                              (None, 18, 18, 256)
                                                                                   Ш
      ⇒295,168
      max_pooling2d_15 (MaxPooling2D)
                                              (None, 9, 9, 256)
                                                                                        Ш
      → 0
      conv2d_19 (Conv2D)
                                              (None, 7, 7, 256)
                                                                                   Ш
      <sup>4</sup>590,080
      flatten_3 (Flatten)
                                              (None, 12544)
                                                                                       Ш
      → 0
                                              (None, 1)
      dense_3 (Dense)
                                                                                    П
      Total params: 991,041 (3.78 MB)
      Trainable params: 991,041 (3.78 MB)
      Non-trainable params: 0 (0.00 B)
[41]: mdl.compile(loss="binary_crossentropy",
                  optimizer="rmsprop",
                  metrics=["accuracy"])
```

To prevent overfitting, we apply regularization techniques during the data preprocessing stage. At this point, each image is converted into a tensor.

```
[42]: from tensorflow.keras.utils import image_dataset_from_directory

data_dataset_training = image_dataset_from_directory(
    tgt_base_dir / "data_training",
    image_size=(180, 180),
    batch_size=32)

data_dataset_validation = image_dataset_from_directory(
    tgt_base_dir / "data_validation",
    image_size=(180, 180),
    batch_size=32)

data_dataset_testing = image_dataset_from_directory(
    tgt_base_dir / "data_testing",
    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.
```

Callbacks can be used to stop training early if the model does not progress or to save the model's weights after each epoch. They can also help to control the learning rate, record metrics, and visualize the model's performance.

```
[44]: from tensorflow import keras

callbacks = [
    keras.callbacks.ModelCheckpoint(
        filepath="convnet_from_scratch1.keras",
        save_best_only=True,
        monitor="val_loss"
    )
]

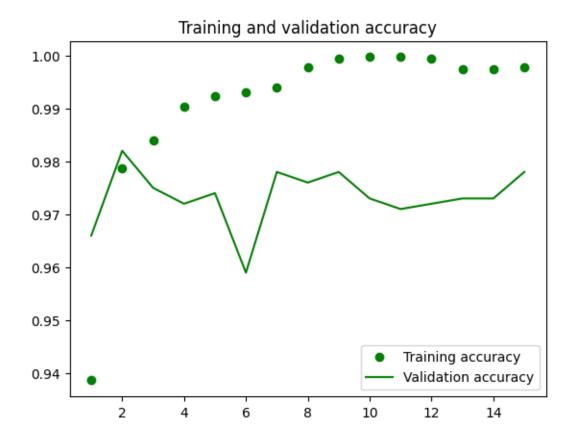
history = mdl.fit(
    data_dataset_training,
    epochs=10,
    validation_data=data_dataset_validation,
    callbacks=callbacks
)
```

```
Epoch 1/10
63/63
8s 91ms/step -
accuracy: 0.5302 - loss: 0.6936 - val_accuracy: 0.5000 - val_loss: 0.6934
Epoch 2/10
63/63
6s 91ms/step -
accuracy: 0.5367 - loss: 0.6960 - val_accuracy: 0.5160 - val_loss: 0.6917
```

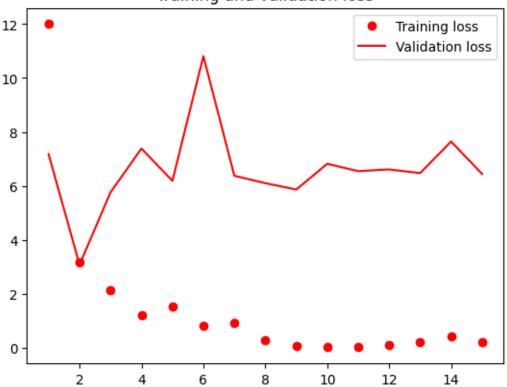
```
Epoch 3/10
63/63
                 4s 64ms/step -
accuracy: 0.5392 - loss: 0.6921 - val accuracy: 0.6060 - val loss: 0.6659
Epoch 4/10
63/63
                 4s 54ms/step -
accuracy: 0.6231 - loss: 0.6824 - val_accuracy: 0.6530 - val_loss: 0.6228
Epoch 5/10
63/63
                 7s 91ms/step -
accuracy: 0.6543 - loss: 0.6294 - val_accuracy: 0.6140 - val_loss: 0.6386
Epoch 6/10
63/63
                 8s 52ms/step -
accuracy: 0.6872 - loss: 0.5897 - val_accuracy: 0.6110 - val_loss: 0.6544
Epoch 7/10
63/63
                 7s 77ms/step -
accuracy: 0.7146 - loss: 0.5559 - val_accuracy: 0.6800 - val_loss: 0.5787
Epoch 8/10
63/63
                 5s 76ms/step -
accuracy: 0.7444 - loss: 0.5208 - val_accuracy: 0.6440 - val_loss: 0.6314
Epoch 9/10
63/63
                 4s 58ms/step -
accuracy: 0.7572 - loss: 0.4942 - val_accuracy: 0.7110 - val_loss: 0.5876
Epoch 10/10
63/63
                 5s 55ms/step -
accuracy: 0.7740 - loss: 0.5100 - val_accuracy: 0.7160 - val_loss: 0.5668
```

As the number of epochs increases, the accuracy tends to rise, with values reaching 77.4% for training accuracy, 71.60% for validation accuracy, and 69% for test accuracy.

```
[99]: import matplotlib.pyplot as plt
      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, "go", label="Training accuracy")
      plt.plot(epochs, val_accuracy, "g", label="Validation accuracy")
      plt.title("Training and validation accuracy")
      plt.legend()
      plt.figure()
      plt.plot(epochs, loss, "ro", label="Training loss")
      plt.plot(epochs, val_loss, "r", label="Validation loss")
      plt.title("Training and validation loss")
      plt.legend()
      plt.show()
```







```
[51]: test_mdl = keras.models.load_model("convnet_from_scratch1.keras")
test_lossVal, test_acc_Value = test_mdl.evaluate(data_dataset_testing)
print(f"Test accuracy: {test_acc_Value:.3f}")
```

32/32 2s 43ms/step - accuracy: 0.6861 - loss: 0.5986 Test accuracy: 0.690

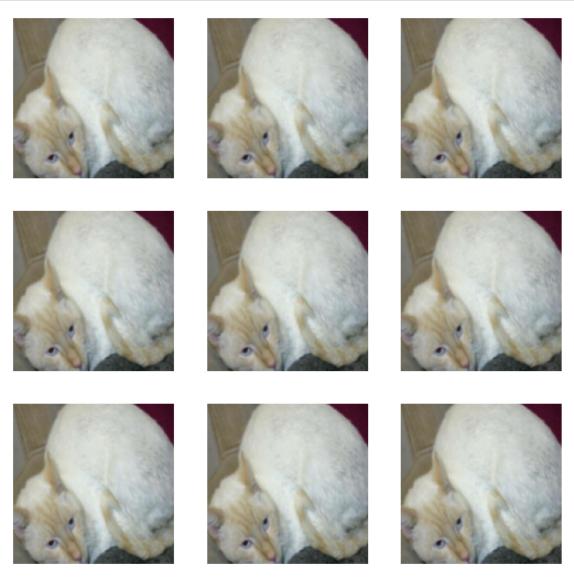
Test accuracy with no data augmentation=69%

Data Augmentation

Data augmentation is a strategy for increasing the size of a training set by generating new, modified versions of the original data. This reduces overfitting and improves the model's generalizability.

```
[98]: from keras.preprocessing.image import load_img

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



```
z = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel size=3, activation="relu")(z)
      z = layers.Flatten()(z)
      z = layers.Dropout(0.5)(z)
      oput = layers.Dense(1, activation="sigmoid")(z)
      mdl = keras.Model(inputs=ipt, outputs=oput)
      mdl.compile(loss="binary_crossentropy",
                  optimizer="rmsprop",
                  metrics=["accuracy"])
[48]: callbacks = [
          keras.callbacks.ModelCheckpoint(
              filepath="convnet_from_scratch_with_augmentation1.keras",
              save_best_only=True,
              monitor="val_loss"
          )
      ]
      history = mdl.fit(
          data_dataset_training,
          epochs=10,
          validation_data=data_dataset_validation,
          callbacks=callbacks
     Epoch 1/10
     63/63
                       5s 60ms/step -
```

```
accuracy: 0.4917 - loss: 0.7111 - val_accuracy: 0.5000 - val_loss: 0.6924
Epoch 2/10
                 7s 89ms/step -
63/63
accuracy: 0.5252 - loss: 0.6945 - val_accuracy: 0.6270 - val_loss: 0.6890
Epoch 3/10
63/63
                 5s 72ms/step -
accuracy: 0.5615 - loss: 0.6820 - val_accuracy: 0.5370 - val_loss: 0.6787
Epoch 4/10
63/63
                 4s 57ms/step -
accuracy: 0.5979 - loss: 0.6592 - val_accuracy: 0.5350 - val_loss: 0.6816
Epoch 5/10
63/63
                 7s 87ms/step -
```

```
accuracy: 0.6467 - loss: 0.6486 - val_accuracy: 0.6370 - val_loss: 0.6326
     Epoch 6/10
     63/63
                       8s 55ms/step -
     accuracy: 0.6575 - loss: 0.6418 - val_accuracy: 0.6190 - val_loss: 0.6848
     Epoch 7/10
     63/63
                       7s 87ms/step -
     accuracy: 0.6728 - loss: 0.6051 - val accuracy: 0.6230 - val loss: 0.6404
     Epoch 8/10
     63/63
                       4s 70ms/step -
     accuracy: 0.6678 - loss: 0.6108 - val_accuracy: 0.5330 - val_loss: 1.1451
     Epoch 9/10
     63/63
                       5s 62ms/step -
     accuracy: 0.6780 - loss: 0.6234 - val_accuracy: 0.6800 - val_loss: 0.5946
     Epoch 10/10
     63/63
                       4s 57ms/step -
     accuracy: 0.7038 - loss: 0.5748 - val_accuracy: 0.6560 - val_loss: 0.5931
[53]: test_mdl = keras.models.load_model(
          "convnet from scratch with augmentation1.keras"
      test_lossVal, test_acc_Value = test_mdl.evaluate(data_dataset_testing)
      print(f"Test accuracy: {test_acc_Value:.3f}")
```

32/32 1s 29ms/step - accuracy: 0.6296 - loss: 0.6313 Test accuracy: 0.623

Although doing data augmentation on the model did not result in improved results, it is still possible to verify this by trying data augmentation on a larger training sample.

accuracy=70.38% val acc=65.60% test acc=62.3%

Test accuracy was not improved

2.Increase training sample size

Attempted to increase training sample size from 1000 to 1500.

```
import os
import shutil
import pathlib

src_dir_ = pathlib.Path("train")
tgt_base_dir = pathlib.Path("cats_vs_dogs_small_2")

def create_subSet(setType, idx_start, idx_end):
    for a in ("cat", "dog"):
        sub_dir = tgt_base_dir / setType / a
        os.makedirs(sub_dir, exist_ok=True)
        names_file = [f"{a}.{i}.jpg" for i in range(idx_start, idx_end)]
```

```
for fname in names_file:
                  shutil.copyfile(src=src_dir_ / fname,
                                  dst=sub_dir / fname)
      create_subSet("data_training", idx_start=0, idx_end=1500)
      create_subSet("data_validation", idx_start=1500, idx_end=2000)
      create_subSet("data_testing", idx_start=2000, idx_end=2500)
[55]: from tensorflow.keras.utils import image_dataset_from_directory
      data_dataset_training = image_dataset_from_directory(
          tgt_base_dir / "data_training",
          image_size=(180, 180),
          batch_size=32
      data dataset validation = image dataset from directory(
          tgt_base_dir / "data_validation",
          image_size=(180, 180),
          batch_size=32
      )
      data_dataset_testing = image_dataset_from_directory(
          tgt_base_dir / "data_testing",
          image_size=(180, 180),
          batch_size=32
     Found 3000 files belonging to 2 classes.
     Found 1000 files belonging to 2 classes.
     Found 1000 files belonging to 2 classes.
[56]: ipt = keras.Input(shape=(180, 180, 3))
      z = layers.Rescaling(1./255)(ipt)
      z = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.Flatten()(z)
      oput = layers.Dense(1, activation="sigmoid")(z)
      mdl = keras.Model(inputs=ipt, outputs=oput)
```

```
13s 119ms/step -
94/94
accuracy: 0.5064 - loss: 0.6966 - val_accuracy: 0.5030 - val_loss: 0.6922
Epoch 2/10
94/94
                 5s 57ms/step -
accuracy: 0.5702 - loss: 0.6828 - val_accuracy: 0.6130 - val_loss: 0.7441
Epoch 3/10
94/94
                 10s 59ms/step -
accuracy: 0.6364 - loss: 0.6482 - val_accuracy: 0.6610 - val_loss: 0.6281
Epoch 4/10
94/94
                 12s 73ms/step -
accuracy: 0.6776 - loss: 0.6035 - val_accuracy: 0.5420 - val_loss: 0.8883
Epoch 5/10
94/94
                 5s 58ms/step -
accuracy: 0.7144 - loss: 0.5781 - val accuracy: 0.6970 - val loss: 0.6717
Epoch 6/10
94/94
                 14s 94ms/step -
accuracy: 0.7398 - loss: 0.5373 - val_accuracy: 0.7040 - val_loss: 0.6013
Epoch 7/10
94/94
                 6s 51ms/step -
accuracy: 0.7603 - loss: 0.4952 - val_accuracy: 0.7010 - val_loss: 0.6243
Epoch 8/10
94/94
                 5s 54ms/step -
accuracy: 0.7977 - loss: 0.4350 - val_accuracy: 0.6880 - val_loss: 0.7075
Epoch 9/10
94/94
                 7s 72ms/step -
accuracy: 0.8194 - loss: 0.4044 - val_accuracy: 0.7360 - val_loss: 0.6447
Epoch 10/10
```

```
94/94
                       5s 52ms/step -
     accuracy: 0.8459 - loss: 0.3602 - val_accuracy: 0.7540 - val_loss: 0.5905
[58]: mdl test = keras.models.load model(
          "convnet_from_scratch2.keras"
      lossVal_test, acc_Value_test = mdl_test.evaluate(data_dataset_testing)
      print(f"Test accuracy: {acc_Value_test:.3f}")
     32/32
                       3s 61ms/step -
     accuracy: 0.7802 - loss: 0.5795
     Test accuracy: 0.785
     Accuracy=84.59% val_acc=75.4% test_acc=78%
     using data augmentation
[59]: aug_data = keras.Sequential(
          Γ
              layers.RandomFlip("horizontal"),
              layers.RandomRotation(0.1),
              layers.RandomZoom(0.2),
          ]
[60]: ipt = keras.Input(shape=(180, 180, 3))
      z = aug_data(ipt)
      z = layers.Rescaling(1./255)(z)
      z = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.Flatten()(z)
      z = layers.Dropout(0.5)(z)
      oput = layers.Dense(1, activation="sigmoid")(z)
      mdl = keras.Model(inputs=ipt, outputs=oput)
      mdl.compile(loss="binary_crossentropy",
                  optimizer="adam",
                  metrics=["accuracy"])
[61]: _callBacks = [
          keras.callbacks.ModelCheckpoint(
              filepath="convnet_from_scratch_with_augmentation2.keras",
```

```
save_best_only=True,
              monitor="val_loss"
          )
      ]
      history = mdl.fit(
          data_dataset_training,
          epochs=10,
          validation data=data dataset validation,
          callbacks=_callBacks
      )
     Epoch 1/10
     94/94
                       12s 91ms/step -
     accuracy: 0.5093 - loss: 0.6957 - val_accuracy: 0.5010 - val_loss: 0.6811
     Epoch 2/10
     94/94
                       6s 66ms/step -
     accuracy: 0.5273 - loss: 0.6788 - val_accuracy: 0.5110 - val_loss: 0.7024
     Epoch 3/10
     94/94
                       7s 72ms/step -
     accuracy: 0.5786 - loss: 0.6637 - val_accuracy: 0.6080 - val_loss: 0.7083
     Epoch 4/10
     94/94
                       10s 66ms/step -
     accuracy: 0.6234 - loss: 0.6435 - val_accuracy: 0.6350 - val_loss: 0.6678
     Epoch 5/10
     94/94
                       7s 74ms/step -
     accuracy: 0.6625 - loss: 0.6055 - val_accuracy: 0.6660 - val_loss: 0.6245
     Epoch 6/10
     94/94
                       6s 66ms/step -
     accuracy: 0.7162 - loss: 0.5711 - val_accuracy: 0.6930 - val_loss: 0.5811
     Epoch 7/10
     94/94
                       5s 54ms/step -
     accuracy: 0.6912 - loss: 0.5887 - val_accuracy: 0.6590 - val_loss: 0.6395
     Epoch 8/10
     94/94
                       10s 51ms/step -
     accuracy: 0.7082 - loss: 0.5618 - val_accuracy: 0.7050 - val_loss: 0.6001
     Epoch 9/10
                       6s 56ms/step -
     accuracy: 0.7100 - loss: 0.5777 - val_accuracy: 0.7000 - val_loss: 0.6057
     Epoch 10/10
     94/94
                       9s 97ms/step -
     accuracy: 0.7155 - loss: 0.5658 - val_accuracy: 0.7120 - val_loss: 0.5738
[64]: mdl test = keras.models.load model(
         "convnet_from_scratch_with_augmentation2.keras"
```

lossVal_test, acc_Value_test = mdl_test.evaluate(data_dataset_testing)

```
print(f"Test accuracy: {acc_Value_test:.3f}")
```

3. Finding the ideal training sample size

We set the training, validation, and test set sizes, respectively, to 1500, 1000, and 500

```
import os
import shutil
import pathlib

src_dir_ = pathlib.Path("train")
tgt_base_dir = pathlib.Path("cats_vs_dogs_small_3")

def create_subSet(setType, idx_start, idx_end):
    for a in ("cat", "dog"):
        sub_dir = tgt_base_dir / setType / a
        os.makedirs(sub_dir, exist_ok=True)
        names_file = [f"{a}.{i}.jpg" for i in range(idx_start, idx_end)]
        for fname in names_file:
            shutil.copyfile(src=src_dir_ / fname, dst=sub_dir / fname)

create_subSet("train", idx_start=0, idx_end=1500)
create_subSet("validation", idx_start=1500, idx_end=2500)
create_subSet("test", idx_start=2500, idx_end=3000)
```

```
[65]: from tensorflow.keras.utils import image_dataset_from_directory

data_dataset_training = image_dataset_from_directory(
    tgt_base_dir / "train",
    image_size=(180, 180),
    batch_size=32
)

data_dataset_validation = image_dataset_from_directory(
    tgt_base_dir / "validation",
    image_size=(180, 180),
    batch_size=32
)

data_dataset_testing = image_dataset_from_directory(
    tgt_base_dir / "test",
    image_size=(180, 180),
    batch_size=32
```

```
Found 3000 files belonging to 2 classes.
     Found 2000 files belonging to 2 classes.
     Found 1000 files belonging to 2 classes.
[66]: ipt = keras.Input(shape=(180, 180, 3))
      z = layers.Rescaling(1./255)(ipt)
      z = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.Flatten()(z)
      oput = layers.Dense(1, activation="sigmoid")(z)
      mdl = keras.Model(inputs=ipt, outputs=oput)
      mdl.compile(loss="binary_crossentropy",
                  optimizer="rmsprop",
                  metrics=["accuracy"])
[67]: _callBacks = [
          keras.callbacks.ModelCheckpoint(
              filepath="convnet_from_scratch3.keras",
              save_best_only=True,
              monitor="val_loss"
          )
      history = mdl.fit(
          data_dataset_training,
          epochs=10,
          validation_data=data_dataset_validation,
          callbacks=_callBacks
      )
     Epoch 1/10
     94/94
                       14s 112ms/step -
     accuracy: 0.5175 - loss: 0.7080 - val_accuracy: 0.5025 - val_loss: 0.6905
     Epoch 2/10
     94/94
                       15s 73ms/step -
     accuracy: 0.5602 - loss: 0.6904 - val_accuracy: 0.6435 - val_loss: 0.6552
     Epoch 3/10
     94/94
                       7s 76ms/step -
```

```
accuracy: 0.5883 - loss: 0.6670 - val_accuracy: 0.6575 - val_loss: 0.6284
     Epoch 4/10
     94/94
                       7s 76ms/step -
     accuracy: 0.6388 - loss: 0.6345 - val_accuracy: 0.6890 - val_loss: 0.5858
     Epoch 5/10
     94/94
                       5s 58ms/step -
     accuracy: 0.7108 - loss: 0.5804 - val_accuracy: 0.6880 - val_loss: 0.5756
     Epoch 6/10
     94/94
                       12s 81ms/step -
     accuracy: 0.7057 - loss: 0.5595 - val_accuracy: 0.6075 - val_loss: 0.7807
     Epoch 7/10
     94/94
                       6s 67ms/step -
     accuracy: 0.7394 - loss: 0.5244 - val_accuracy: 0.7320 - val_loss: 0.5315
     Epoch 8/10
     94/94
                       10s 106ms/step -
     accuracy: 0.7561 - loss: 0.4974 - val_accuracy: 0.7515 - val_loss: 0.5317
     Epoch 9/10
     94/94
                       6s 65ms/step -
     accuracy: 0.8029 - loss: 0.4247 - val_accuracy: 0.7625 - val_loss: 0.5408
     Epoch 10/10
     94/94
                       11s 72ms/step -
     accuracy: 0.8267 - loss: 0.3746 - val_accuracy: 0.7540 - val_loss: 0.5279
[69]: mdl test = keras.models.load model(
          "convnet_from_scratch3.keras"
      lossVal_test, acc_Value_test = mdl_test.evaluate(data_dataset_testing)
      print(f"Test accuracy: {acc_Value_test:.3f}")
     32/32
                       2s 39ms/step -
     accuracy: 0.7904 - loss: 0.5144
     Test accuracy: 0.759
     Accuracy=82.67% val Acc=75.4% test Acc=75.9%
     Using Data augmentation
[70]: aug_data = keras.Sequential(
          layers.RandomFlip("horizontal"),
              layers.RandomRotation(0.1),
              layers.RandomZoom(0.2),
          ]
      )
[71]: ipt = keras.Input(shape=(180, 180, 3))
      z = aug_data(ipt)
      z = layers.Rescaling(1./255)(z)
      z = layers.Conv2D(filters=32, kernel_size=3, activation="relu")(z)
```

```
z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=64, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=128, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.MaxPooling2D(pool_size=2)(z)
      z = layers.Conv2D(filters=256, kernel_size=3, activation="relu")(z)
      z = layers.Flatten()(z)
      z = layers.Dropout(0.5)(z)
      oput = layers.Dense(1, activation="sigmoid")(z)
      mdl = keras.Model(inputs=ipt, outputs=oput)
      mdl.compile(loss="binary_crossentropy",
                  optimizer="adam",
                  metrics=["accuracy"])
[73]: _callBacks = [
          keras.callbacks.ModelCheckpoint(
              filepath="convnet_from_scratch_with_augmentation3.keras",
              save_best_only=True,
              monitor="val loss")
      history = mdl.fit(
          data_dataset_training,
          epochs=10,
          validation_data=data_dataset_validation,
          callbacks=_callBacks)
     Epoch 1/10
     94/94
                       11s 95ms/step -
     accuracy: 0.5245 - loss: 0.6952 - val accuracy: 0.5000 - val loss: 0.6932
     Epoch 2/10
     94/94
                       7s 65ms/step -
     accuracy: 0.4988 - loss: 0.6927 - val_accuracy: 0.5005 - val_loss: 0.6918
     Epoch 3/10
     94/94
                       10s 67ms/step -
     accuracy: 0.5255 - loss: 0.6928 - val_accuracy: 0.5205 - val_loss: 0.6930
     Epoch 4/10
     94/94
                       6s 65ms/step -
     accuracy: 0.5260 - loss: 0.6885 - val_accuracy: 0.6195 - val_loss: 0.6676
     Epoch 5/10
                       10s 61ms/step -
     accuracy: 0.5387 - loss: 0.6821 - val_accuracy: 0.5995 - val_loss: 0.6798
     Epoch 6/10
     94/94
                       13s 96ms/step -
     accuracy: 0.5871 - loss: 0.6797 - val accuracy: 0.6305 - val loss: 0.6554
```

```
Epoch 7/10
     94/94
                       6s 61ms/step -
     accuracy: 0.6099 - loss: 0.6562 - val accuracy: 0.6385 - val loss: 0.6393
     Epoch 8/10
     94/94
                       11s 74ms/step -
     accuracy: 0.6368 - loss: 0.6445 - val_accuracy: 0.6530 - val_loss: 0.6312
     Epoch 9/10
     94/94
                       14s 113ms/step -
     accuracy: 0.6345 - loss: 0.6454 - val_accuracy: 0.6345 - val_loss: 0.6602
     Epoch 10/10
     94/94
                       6s 61ms/step -
     accuracy: 0.6742 - loss: 0.6137 - val_accuracy: 0.6625 - val_loss: 0.6304
[74]: mdl_test = keras.models.load_model(
          "convnet_from_scratch_with_augmentation3.keras")
      lossVal_test, acc_Value_test = mdl_test.evaluate(data_dataset_testing)
      print(f"Test accuracy: {acc_Value_test:.3f}")
                       2s 49ms/step -
     32/32
     accuracy: 0.6495 - loss: 0.6407
     Test accuracy: 0.654
     Accuracy=67.4% val_acc=66.2% test_acc=65.4%
     4. Using a pre-trained network
     VGG16 is the architecture of this pre-trained network.
     Feature extraction - Instantiating the VGG16 convolutional base
[75]: ba_seConv = keras.applications.vgg16.VGG16(
          weights="imagenet",
          include_top=False,
          input_shape=(180, 180, 3)
      ba seConv.summary()
     Downloading data from https://storage.googleapis.com/tensorflow/keras-
     applications/vgg16/vgg16_weights_tf_dim_ordering_tf_kernels_notop.h5
     58889256/58889256
                                    0s
     Ous/step
     Model: "vgg16"
       Layer (type)
                                              Output Shape
                                                                                    Ш
       →Param #
       input_layer_13 (InputLayer)
                                             (None, 180, 180, 3)
                                                                                        Ш
```

block1_conv1 (Conv2D) ⇔1,792	(None, 180, 180, 64)	П
block1_conv2 (Conv2D)	(None, 180, 180, 64)	ш
block1_pool (MaxPooling2D) → 0	(None, 90, 90, 64)	Ц
block2_conv1 (Conv2D)	(None, 90, 90, 128)	Ц
block2_conv2 (Conv2D)	(None, 90, 90, 128)	П
block2_pool (MaxPooling2D) → 0	(None, 45, 45, 128)	Ц
block3_conv1 (Conv2D)	(None, 45, 45, 256)	Ш
block3_conv2 (Conv2D)	(None, 45, 45, 256)	Ш
block3_conv3 (Conv2D)	(None, 45, 45, 256)	Ш
block3_pool (MaxPooling2D) → 0	(None, 22, 22, 256)	П
block4_conv1 (Conv2D)	(None, 22, 22, 512)	П
block4_conv2 (Conv2D)	(None, 22, 22, 512)	П
block4_conv3 (Conv2D)	(None, 22, 22, 512)	П
block4_pool (MaxPooling2D)	(None, 11, 11, 512)	П
block5_conv1 (Conv2D)	(None, 11, 11, 512)	П

```
block5_conv2 (Conv2D)
                                              (None, 11, 11, 512)
      42,359,808
      block5_conv3 (Conv2D)
                                              (None, 11, 11, 512)
                                                                                 Ш
      42,359,808
      block5_pool (MaxPooling2D)
                                         (None, 5, 5, 512)
                                                                                       Ш
      → 0
      Total params: 14,714,688 (56.13 MB)
      Trainable params: 14,714,688 (56.13 MB)
      Non-trainable params: 0 (0.00 B)
     Feature extraction - Extracting features and corresponding labels
[76]: import numpy as np
      def featuresAndLabels_Get(dataset):
          features_list = []
          labels list = []
          for imgs, lbls in dataset:
              preprocessed_imgs = keras.applications.vgg16.preprocess_input(imgs)
              feature_set = ba_seConv.predict(preprocessed_imgs)
              features_list.append(feature_set)
              labels_list.append(lbls)
          return np.concatenate(features_list), np.concatenate(labels_list)
      train_features, train_labels = featuresAndLabels_Get(train_dataset)
      val features, val labels = featuresAndLabels Get(validation dataset)
      test_features, test_labels = featuresAndLabels_Get(test_dataset)
      train_features.shape
     1/1
                     14s 14s/step
     1/1
                     Os 27ms/step
     1/1
                     0s 25ms/step
     1/1
                     Os 25ms/step
     1/1
                     Os 26ms/step
                     0s 28ms/step
     1/1
     1/1
                     Os 26ms/step
                     Os 26ms/step
     1/1
     1/1
                     Os 34ms/step
```

1/1

0s 32ms/step

1/1	0s	27ms/step
1/1	0s	21ms/step
1/1	0s	25ms/step
1/1	0s	25ms/step
1/1	0s	25ms/step
1/1	0s	41ms/step
1/1	0s	21ms/step
1/1	0s	24ms/step
1/1	0s	30ms/step
1/1	0s	25ms/step
1/1	0s	22ms/step
1/1	0s	25ms/step
1/1	0s	21ms/step
1/1	0s	25ms/step
1/1	0s	28ms/step
1/1	0s	25ms/step
1/1	0s	27ms/step
1/1	0s	22ms/step
1/1	0s	26ms/step
1/1	0s	23ms/step
1/1	0s	22ms/step
1/1	0s	23ms/step
1/1	0s	22ms/step
1/1	0s	23ms/step
1/1	0s	29ms/step
1/1	0s	37ms/step
1/1	0s	31ms/step
1/1	0s	30ms/step
1/1	0s	33ms/step
1/1	0s	28ms/step
1/1	0s	31ms/step
1/1	0s	34ms/step
1/1	0s	55ms/step
1/1	0s	35ms/step
1/1	0s	32ms/step
1/1	0s	32ms/step
1/1	0s	44ms/step
1/1	0s	35ms/step
1/1	0s	32ms/step
1/1	0s	40ms/step
1/1	0s	38ms/step
1/1	0s	41ms/step
1/1	0s	32ms/step
1/1	0s	32ms/step
1/1	0s	35ms/step
1/1	0s	33ms/step
1/1	0s	32ms/step
1/1	0s	34ms/step
		_

1/1	0s	35ms/step
1/1	0s	37ms/step
1/1	0s	24ms/step
1/1	0s	22ms/step
1/1	0s	22ms/step
1/1	0s	21ms/step
1/1	0s	22ms/step
1/1	0s	22ms/step
1/1	0s	27ms/step
1/1	0s	22ms/step
1/1	0s	22ms/step
1/1	0s	21ms/step
1/1	0s	22ms/step
1/1	0s	28ms/step
1/1	0s	23ms/step
1/1	0s	23ms/step
1/1	0s	25ms/step
1/1	0s	24ms/step
1/1	0s	22ms/step
1/1	0s	21ms/step
1/1	0s	23ms/step
1/1	0s	23ms/step
1/1	0s	24ms/step
1/1	0s	22ms/step
1/1	0s	23ms/step
1/1	0s	22ms/step
1/1	0s	31ms/step
1/1	0s	22ms/step
1/1	0s	21ms/step
1/1	0s	27ms/step
1/1	0s	21ms/step
1/1	0s	21ms/step
1/1	9s	9s/step
1/1	0s	52ms/step
1/1	0s	22ms/step
1/1	0s	23ms/step
1/1	0s	23ms/step
1/1	0s	22ms/step
1/1	0s	23ms/step
1/1	0s	24ms/step
1/1	0s	21ms/step
1/1	0s	23ms/step
1/1	0s	21ms/step
1/1	0s	22ms/step
1/1	0s	21ms/step

1/1	0s	23ms/step
1/1	0s	22ms/step
1/1	0s	22ms/step
1/1	0s	21ms/step
1/1	0s	25ms/step
1/1	0s	25ms/step
1/1	0s	25ms/step
1/1	0s	32ms/step
1/1	0s	28ms/step
1/1	0s	30ms/step
1/1	0s	33ms/step
1/1	0s	30ms/step
1/1	0s	28ms/step
1/1	4s	4s/step
1/1	0s	26ms/step
1/1	0s	21ms/step
1/1	0s	24ms/step
1/1	0s	22ms/step
1/1	0s	21ms/step
1/1	0s	23ms/step
1/1	0s	21ms/step
1/1	0s	21ms/step
1/1		23ms/step
1/1	0s	21ms/step
1/1	0s	21ms/step
1/1	0s	22ms/step
1/1	0s	22ms/step
1/1	0s	23ms/step
1/1	0s	24ms/step
1/1	0s	22ms/step
1/1	0s	23ms/step
1/1	0s	26ms/step
1/1	0s	21ms/step
1/1	0s	30ms/step
1/1	0s	23ms/step
1/1	0s	22ms/step

Feature extraction - Defining and training the densely connected classifier

```
[78]: ipt = keras.Input(shape=(5, 5, 512))
      z = layers.Flatten()(ipt)
      z = layers.Dense(256)(z)
      z = layers.Dropout(0.5)(z)
      oput = layers.Dense(1, activation="sigmoid")(z)
      mdl = keras.Model(inputs=ipt, outputs=oput)
      mdl.compile(loss="binary_crossentropy",
                  optimizer="rmsprop",
                  metrics=["accuracy"])
      _callBacks = [
          keras.callbacks.ModelCheckpoint(
              filepath="feature_extractionPT1.keras",
              save best only=True,
              monitor="val_loss")
      ]
      history = mdl.fit(
          train_features, train_labels,
          epochs=15,
          validation_data=(val_features, val_labels),
          callbacks=_callBacks)
```

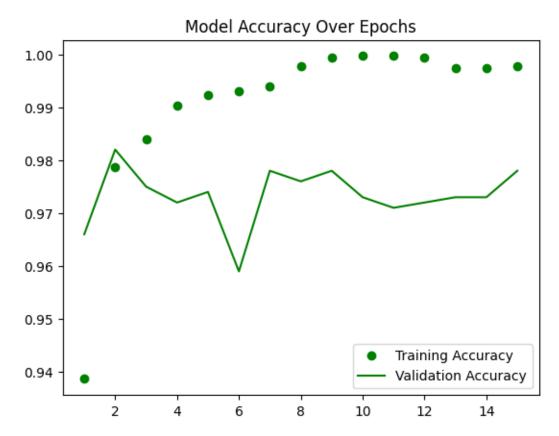
```
Epoch 1/15
94/94
                 4s 22ms/step -
accuracy: 0.9036 - loss: 20.6505 - val_accuracy: 0.9660 - val_loss: 7.1763
Epoch 2/15
94/94
                 Os 4ms/step -
accuracy: 0.9772 - loss: 2.6160 - val_accuracy: 0.9820 - val_loss: 3.0761
Epoch 3/15
94/94
                 1s 5ms/step -
accuracy: 0.9862 - loss: 1.6699 - val_accuracy: 0.9750 - val_loss: 5.7563
Epoch 4/15
94/94
                 1s 5ms/step -
accuracy: 0.9901 - loss: 1.0134 - val_accuracy: 0.9720 - val_loss: 7.3840
Epoch 5/15
94/94
                 1s 4ms/step -
accuracy: 0.9934 - loss: 1.2283 - val_accuracy: 0.9740 - val_loss: 6.1850
Epoch 6/15
```

```
accuracy: 0.9932 - loss: 0.8453 - val_accuracy: 0.9590 - val_loss: 10.8111
     Epoch 7/15
     94/94
                       0s 5ms/step -
     accuracy: 0.9941 - loss: 0.9486 - val accuracy: 0.9780 - val loss: 6.3744
     Epoch 8/15
     94/94
                       Os 5ms/step -
     accuracy: 0.9989 - loss: 0.1618 - val_accuracy: 0.9760 - val_loss: 6.0997
     Epoch 9/15
     94/94
                       1s 5ms/step -
     accuracy: 0.9997 - loss: 0.0265 - val accuracy: 0.9780 - val loss: 5.8634
     Epoch 10/15
     94/94
                       1s 6ms/step -
     accuracy: 0.9999 - loss: 0.0039 - val_accuracy: 0.9730 - val_loss: 6.8180
     Epoch 11/15
     94/94
                       Os 4ms/step -
     accuracy: 0.9996 - loss: 0.0228 - val_accuracy: 0.9710 - val_loss: 6.5457
     Epoch 12/15
     94/94
                       0s 4ms/step -
     accuracy: 0.9996 - loss: 0.0518 - val_accuracy: 0.9720 - val_loss: 6.6087
     Epoch 13/15
     94/94
                       Os 3ms/step -
     accuracy: 0.9956 - loss: 0.3483 - val_accuracy: 0.9730 - val_loss: 6.4729
     Epoch 14/15
     94/94
                       Os 3ms/step -
     accuracy: 0.9979 - loss: 0.3108 - val_accuracy: 0.9730 - val_loss: 7.6435
     Epoch 15/15
     94/94
                       1s 3ms/step -
     accuracy: 0.9977 - loss: 0.2591 - val_accuracy: 0.9780 - val_loss: 6.4418
     accuracy=99.7\% val acc=97.8\%
[79]: import matplotlib.pyplot as pl
      acc_Value = history.history["accuracy"]
      val_acc_Value = history.history["val_accuracy"]
      lossVal = history.history["loss"]
      val_lossVal = history.history["val_loss"]
      epochs = range(1, len(acc_Value) + 1)
      pl.plot(epochs, acc_Value, "go", label="Training Accuracy")
      pl.plot(epochs, val_acc_Value, "g", label="Validation Accuracy")
      pl.title("Model Accuracy Over Epochs")
      pl.legend()
      pl.figure()
      pl.plot(epochs, lossVal, "ro", label="Training Loss")
      pl.plot(epochs, val_lossVal, "r", label="Validation Loss")
```

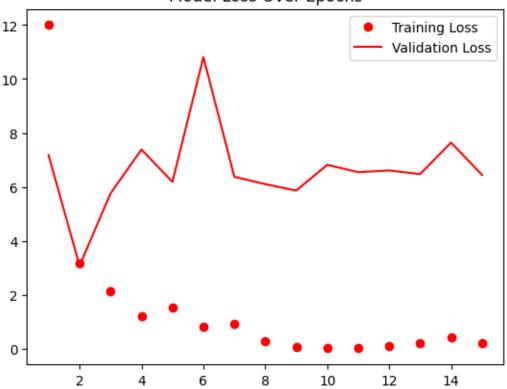
94/94

1s 4ms/step -

```
pl.title("Model Loss Over Epochs")
pl.legend()
pl.show()
```



Model Loss Over Epochs



Number of trainable weights before freezing the convolution base: 26 Number of trainable weights after freezing the convolution base: 0

Feature extraction with Data Augmentation

```
layers.RandomRotation(0.1),
              layers.RandomZoom(0.2),
          ]
      )
      ipt = keras.Input(shape=(180, 180, 3))
      z = aug_data(ipt)
      z = keras.applications.vgg16.preprocess_input(z)
      z = ba seConv(z)
      z = layers.Flatten()(z)
      z = layers.Dense(256)(z)
      z = layers.Dropout(0.5)(z)
      oput = layers.Dense(1, activation="sigmoid")(z)
      mdl = keras.Model(inputs=ipt, outputs=oput)
      mdl.compile(loss="binary_crossentropy",
                  optimizer="rmsprop",
                  metrics=["accuracy"])
[82]: _callBacks = [
          keras.callbacks.ModelCheckpoint(
              filepath="feature_extraction_with_data_augmentationPT2.keras",
              save_best_only=True,
              monitor="val_loss"
          )
      hist = mdl.fit(
          train_dataset,
          epochs=5,
          validation_data=validation_dataset,
          callbacks=_callBacks
      )
     Epoch 1/5
     94/94
                       28s 253ms/step -
     accuracy: 0.8357 - loss: 45.2425 - val_accuracy: 0.9770 - val_loss: 3.1581
     Epoch 2/5
     94/94
                       14s 152ms/step -
     accuracy: 0.9581 - loss: 5.6371 - val_accuracy: 0.9650 - val_loss: 6.2776
     Epoch 3/5
     94/94
                       14s 148ms/step -
     accuracy: 0.9471 - loss: 7.5354 - val_accuracy: 0.9680 - val_loss: 5.3251
     Epoch 4/5
                       21s 154ms/step -
     accuracy: 0.9642 - loss: 3.8308 - val_accuracy: 0.9810 - val_loss: 3.1332
     Epoch 5/5
     94/94
                       15s 157ms/step -
     accuracy: 0.9748 - loss: 2.6789 - val_accuracy: 0.9750 - val_loss: 2.7273
```