Image classification without the use of machine learning

Day and Night Image Classifier

The day/night image dataset consists of 200 RGB color images in two categories: day and night. There are equal numbers of each example: 100 day images and 100 night images.

We're trying to build a classifier that can accurately label these images as day or night, and that relies on finding distinguishing features between the two types of images!

Note: All images come from the AMOS dataset (Archive of Many Outdoor Scenes).

Import resources

Before we get started on the project code, import the libraries that we'll need.

```
from google.colab import drive
drive.mount('/content/drive')
Mounted at /content/drive
import os
import glob #for loading images from a directory
import matplotlib.image as mpimg
import matplotlib.pyplot as plt
import cv2
import random
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import keras
from keras.models import Sequential
from keras.layers import Dense, Conv2D , MaxPool2D , Flatten , Dropout
from keras.preprocessing.image import ImageDataGenerator
from keras.optimizers import adam v2
from sklearn.metrics import classification report, confusion matrix
import tensorflow as tf
import os
# Image data directories
image_dir_training = "/content/drive/MyDrive/images/training"
image dir test = "/content/drive/MyDrive/images/test/"
```

Step 1: Load the datasets and visualize

[12 11 7]]

These first few lines of code will load the training day/night images and store all of them in a variable, IMAGE_LIST. This list contains the images and their associated label ("day" or "night").

```
For example, the first image-label pair in IMAGE LIST can be accessed by index:
IMAGE LIST[0][:].
labels = ['day', 'night']
img size = 224
def get data(data dir):
    data = []
    for label in labels:
        path = os.path.join(data dir, label)
        class num = labels.index(label)
        print(path)
        for img in os.listdir(path):
            try:
                img arr = cv2.imread(os.path.join(path, img))[...,::-
1] #convert BGR to RGB format
                print(img arr)
                resized arr = cv2.resize(img arr, (img size,
img size)) # Reshaping images to preferred size
                data.append([resized arr, class num])
            except Exception as e:
                print(e)
    return np.array(data)
# Load training data
train = get data('/content/drive/MyDrive/images/training')
val = get data('/content/drive/MyDrive/images/test')
Streaming output truncated to the last 5000 lines.
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$$\begin{bmatrix} 1 & 1 & 1 \end{bmatrix}$$

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```

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```

[19 10

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[[61 26 24]
 [63 28 26]
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  [66 35 43]
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  . . .
  [38 13 16]
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```

```
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/content/drive/MyDrive/images/test/day
```

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:18: VisibleDeprecationWarning: Creating an ndarray from ragged nested sequences (which is a list-or-tuple of lists-or-tuples-or ndarrays with different lengths or shapes) is deprecated. If you meant to do this, you must specify 'dtype=object' when creating the ndarray.

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Streaming output truncated to the last 5000 lines.
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```
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  [124 166 206]
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  [125 167 207]
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  [125 167 207]]
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  [197 170 143]
  [198 171 144]]
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 [ 74 59
            40]
       76
 [ 89
            57]
  [200 173 146]
  [200 173 146]
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       71
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 [ 84
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```
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  [ 22
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             23]
  [ 26
        27
             29]
  [ 25
        27
             26]]
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  [ 14
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  [ 22
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             27]
  [ 20
        19
             25]
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```

```
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```
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```

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```
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             74]
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  [ 72
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```

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[74

71

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7

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15

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         8
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8

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```

Step 2: Preprocess the data input images.

This function takes in a list of image-label pairs and outputs a **standardized** list of resized images and numerical labels.

1. Resizing every image to a standard size

```
2. Encode the target variables
x train = []
y train = []
x val = []
y val = []
for feature, label in train:
  x train.append(feature)
  y train.append(label)
for feature, label in val:
  x_val.append(feature)
  y val.append(label)
# Normalize the data
x train = np.array(x train) / 255
x \text{ val} = \text{np.array}(x \text{ val}) / 255
x_train.reshape(-1, img_size, img_size, 1)
y_train = np.array(y_train)
x_val.reshape(-1, img_size, img_size, 1)
y val = np.array(y val)
```

Step 3: Feature Extraction

Let's try to create a feature that represents the brightness in an image. We'll be extracting the **average brightness** using HSV colorspace. Specifically, we'll use the V channel (a measure of brightness), add up the pixel values in the V channel, then divide that sum by the area of the image to get the average Value of the image.

```
datagen = ImageDataGenerator(
        featurewise center=False, # set input mean to 0 over the
dataset
        samplewise center=False, # set each sample mean to 0
        featurewise std normalization=False, # divide inputs by std
of the dataset
        samplewise std normalization=False, # divide each input by
its std
        zca_whitening=False, # apply ZCA whitening
        rotation range = 30, # randomly rotate images in the range
(degrees, 0 to 180)
        zoom range = 0.2, # Randomly zoom image
        width shift range=0.1, # randomly shift images horizontally
(fraction of total width)
        height shift range=0.1, # randomly shift images vertically
(fraction of total height)
        horizontal flip = True, # randomly flip images
        vertical flip=False) # randomly flip images
```

```
datagen.fit(x_train)
```

Step 4: Build the classifier

We'll turn our average brightness feature into a classifier that takes in a standardized image and returns a predicted_label for that image. This estimate_label function should return a value: 0 or 1 (night or day, respectively).

```
model = Sequential()
model.add(Conv2D(32,3,padding="same", activation="relu",
input_shape=(224,224,3)))
model.add(MaxPool2D())

model.add(Conv2D(32, 3, padding="same", activation="relu"))
model.add(MaxPool2D())

model.add(Conv2D(64, 3, padding="same", activation="relu"))
model.add(MaxPool2D())
model.add(MaxPool2D())
model.add(Dropout(0.4))

model.add(Flatten())
model.add(Dense(128,activation="relu"))
model.add(Dense(2, activation="softmax"))

model.summary()
```

Model: "sequential"

Layer (type)	Output Shape 	Param #
conv2d (Conv2D)	(None, 224, 224, 32)	896
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 112, 112, 32)	0
conv2d_1 (Conv2D)	(None, 112, 112, 32)	9248
<pre>max_pooling2d_1 (MaxPooling 2D)</pre>	(None, 56, 56, 32)	0
conv2d_2 (Conv2D)	(None, 56, 56, 64)	18496
<pre>max_pooling2d_2 (MaxPooling 2D)</pre>	(None, 28, 28, 64)	0
dropout (Dropout)	(None, 28, 28, 64)	0
flatten (Flatten)	(None, 50176)	0

```
dense (Dense)
                        (None, 128)
                                              6422656
dense 1 (Dense)
                        (None, 2)
                                              258
Total params: 6,451,554
Trainable params: 6,451,554
Non-trainable params: 0
from keras.optimizers import Adam
opt = Adam(learning rate=0.000001)
model.compile(optimizer = opt , loss =
tf.keras.losses.SparseCategoricalCrossentropy(from logits=True) ,
metrics = ['accuracy'])
history = model.fit(x_train,y_train,epochs = 50 , validation_data =
(x val, y val))
Epoch 1/50
/usr/local/lib/python3.7/dist-packages/tensorflow/python/util/
dispatch.py:1082: UserWarning: "`sparse_categorical_crossentropy`
received `from_logits=True`, but the `output` argument was produced by
a sigmoid or softmax activation and thus does not represent logits.
Was this intended?"
 return dispatch target(*args, **kwargs)
8/8 [============ ] - 21s 2s/step - loss: 0.7079 -
accuracy: 0.4750 - val loss: 0.6972 - val accuracy: 0.5000
Epoch 2/50
8/8 [=========== ] - 19s 2s/step - loss: 0.6938 -
accuracy: 0.5292 - val_loss: 0.6835 - val_accuracy: 0.6187
accuracy: 0.6250 - val loss: 0.6711 - val accuracy: 0.7563
Epoch 4/50
8/8 [=========== ] - 19s 2s/step - loss: 0.6692 -
accuracy: 0.6833 - val loss: 0.6598 - val accuracy: 0.7688
Epoch 5/50
accuracy: 0.7750 - val loss: 0.6496 - val accuracy: 0.7437
Epoch 6/50
8/8 [=========== ] - 19s 2s/step - loss: 0.6456 -
accuracy: 0.7375 - val loss: 0.6396 - val accuracy: 0.7250
Epoch 7/50
8/8 [=========== ] - 19s 2s/step - loss: 0.6351 -
accuracy: 0.7208 - val loss: 0.6303 - val accuracy: 0.7063
Epoch 8/50
8/8 [========= ] - 19s 2s/step - loss: 0.6232 -
```

```
accuracy: 0.7333 - val loss: 0.6213 - val accuracy: 0.7000
Epoch 9/50
accuracy: 0.7375 - val loss: 0.6125 - val accuracy: 0.7000
Epoch 10/50
8/8 [============= ] - 19s 2s/step - loss: 0.6074 -
accuracy: 0.7292 - val loss: 0.6040 - val accuracy: 0.6938
Epoch 11/50
8/8 [=========== ] - 19s 2s/step - loss: 0.6024 -
accuracy: 0.7250 - val loss: 0.5955 - val accuracy: 0.7000
Epoch 12/50
8/8 [============ ] - 19s 2s/step - loss: 0.5921 -
accuracy: 0.7417 - val loss: 0.5873 - val accuracy: 0.7063
Epoch 13/50
8/8 [=========== ] - 19s 2s/step - loss: 0.5814 -
accuracy: 0.7667 - val loss: 0.5793 - val accuracy: 0.7125
Epoch 14/50
accuracy: 0.7708 - val loss: 0.5712 - val accuracy: 0.7125
Epoch 15/50
accuracy: 0.7375 - val loss: 0.5631 - val accuracy: 0.7125
Epoch 16/50
8/8 [============== ] - 19s 2s/step - loss: 0.5579 -
accuracy: 0.7917 - val loss: 0.5551 - val accuracy: 0.7125
Epoch 17/50
accuracy: 0.8125 - val loss: 0.5471 - val accuracy: 0.7250
Epoch 18/50
accuracy: 0.8208 - val loss: 0.5389 - val accuracy: 0.7250
Epoch 19/50
8/8 [=========== ] - 19s 2s/step - loss: 0.5302 -
accuracy: 0.8333 - val loss: 0.5310 - val accuracy: 0.7500
Epoch 20/50
8/8 [============= ] - 19s 2s/step - loss: 0.5209 -
accuracy: 0.8333 - val loss: 0.5231 - val accuracy: 0.7563
Epoch 21/50
8/8 [============== ] - 19s 2s/step - loss: 0.5125 -
accuracy: 0.8375 - val loss: 0.5150 - val accuracy: 0.7688
Epoch 22/50
8/8 [============ ] - 19s 2s/step - loss: 0.5026 -
accuracy: 0.8333 - val loss: 0.5070 - val accuracy: 0.7750
Epoch 23/50
8/8 [========= ] - 20s 2s/step - loss: 0.4963 -
accuracy: 0.8458 - val_loss: 0.4992 - val_accuracy: 0.7812
Epoch 24/50
8/8 [=========== ] - 19s 2s/step - loss: 0.4860 -
accuracy: 0.8500 - val loss: 0.4914 - val accuracy: 0.8000
Epoch 25/50
```

```
accuracy: 0.8458 - val loss: 0.4839 - val accuracy: 0.8250
Epoch 26/50
8/8 [=========== ] - 19s 2s/step - loss: 0.4692 -
accuracy: 0.8542 - val loss: 0.4767 - val accuracy: 0.8313
Epoch 27/50
8/8 [========== ] - 19s 2s/step - loss: 0.4601 -
accuracy: 0.8667 - val loss: 0.4694 - val accuracy: 0.8313
Epoch 28/50
8/8 [============== ] - 19s 2s/step - loss: 0.4490 -
accuracy: 0.8667 - val loss: 0.4623 - val accuracy: 0.8375
Epoch 29/50
8/8 [============ ] - 19s 2s/step - loss: 0.4472 -
accuracy: 0.8708 - val loss: 0.4553 - val accuracy: 0.8438
Epoch 30/50
8/8 [============ ] - 19s 2s/step - loss: 0.4370 -
accuracy: 0.8833 - val loss: 0.4483 - val accuracy: 0.8438
Epoch 31/50
8/8 [=========== ] - 19s 2s/step - loss: 0.4286 -
accuracy: 0.8750 - val loss: 0.4417 - val accuracy: 0.8500
Epoch 32/50
8/8 [============ ] - 19s 2s/step - loss: 0.4193 -
accuracy: 0.8792 - val_loss: 0.4353 - val_accuracy: 0.8500
Epoch 33/50
8/8 [============== ] - 19s 2s/step - loss: 0.4075 -
accuracy: 0.8875 - val loss: 0.4290 - val accuracy: 0.8500
Epoch 34/50
accuracy: 0.8792 - val loss: 0.4229 - val accuracy: 0.8500
Epoch 35/50
accuracy: 0.8833 - val loss: 0.4168 - val accuracy: 0.8750
Epoch 36/50
8/8 [=========== ] - 19s 2s/step - loss: 0.3936 -
accuracy: 0.8833 - val loss: 0.4108 - val accuracy: 0.8813
Epoch 37/50
accuracy: 0.8792 - val loss: 0.4049 - val accuracy: 0.8875
Epoch 38/50
8/8 [=========== ] - 19s 2s/step - loss: 0.3750 -
accuracy: 0.9042 - val loss: 0.3990 - val accuracy: 0.8938
Epoch 39/50
8/8 [=========== ] - 19s 2s/step - loss: 0.3728 -
accuracy: 0.8958 - val loss: 0.3931 - val accuracy: 0.9062
Epoch 40/50
8/8 [=========== ] - 19s 2s/step - loss: 0.3632 -
accuracy: 0.9000 - val loss: 0.3873 - val accuracy: 0.9062
Epoch 41/50
accuracy: 0.9000 - val loss: 0.3817 - val accuracy: 0.9062
```

```
Epoch 42/50
8/8 [========= ] - 19s 2s/step - loss: 0.3520 -
accuracy: 0.9042 - val loss: 0.3761 - val accuracy: 0.9125
Epoch 43/50
8/8 [============== ] - 19s 2s/step - loss: 0.3450 -
accuracy: 0.9042 - val loss: 0.3707 - val accuracy: 0.9438
Epoch 44/50
8/8 [=========== ] - 19s 2s/step - loss: 0.3394 -
accuracy: 0.9208 - val loss: 0.3653 - val accuracy: 0.9438
Epoch 45/50
8/8 [============ ] - 19s 2s/step - loss: 0.3350 -
accuracy: 0.9083 - val loss: 0.3599 - val accuracy: 0.9438
Epoch 46/50
accuracy: 0.9167 - val loss: 0.3546 - val accuracy: 0.9438
Epoch 47/50
8/8 [========= ] - 21s 3s/step - loss: 0.3242 -
accuracy: 0.9125 - val_loss: 0.3494 - val_accuracy: 0.9438
Epoch 48/50
8/8 [============= ] - 19s 2s/step - loss: 0.3181 -
accuracy: 0.9375 - val loss: 0.3446 - val accuracy: 0.9438
Epoch 49/50
8/8 [=========== ] - 19s 2s/step - loss: 0.3105 -
accuracy: 0.9417 - val loss: 0.3399 - val accuracy: 0.9438
Epoch 50/50
8/8 [========= ] - 19s 2s/step - loss: 0.3027 -
accuracy: 0.9708 - val_loss: 0.3354 - val_accuracy: 0.9500
```

Step 5: Evaluate the Classifier and Optimize

Here is where we test your classification algorithm using our test set of data that we set aside at the beginning of the notebook! Below, we load in the test dataset, standardize it using the standardize function you defined above, and then **shuffle** it; this ensures that order will not play a role in testing accuracy.

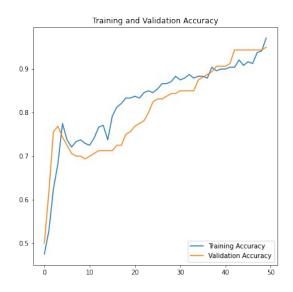
```
acc = history.history['accuracy']
val_acc = history.history['val_accuracy']
loss = history.history['loss']
val_loss = history.history['val_loss']

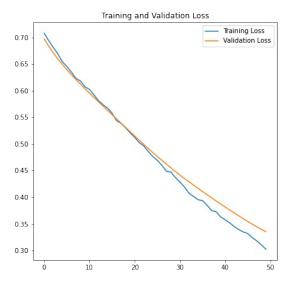
epochs_range = range(50)

plt.figure(figsize=(15, 15))
plt.subplot(2, 2, 1)
plt.plot(epochs_range, acc, label='Training Accuracy')
plt.plot(epochs_range, val_acc, label='Validation Accuracy')
plt.legend(loc='lower right')
plt.title('Training and Validation Accuracy')

plt.subplot(2, 2, 2)
```

```
plt.plot(epochs_range, loss, label='Training Loss')
plt.plot(epochs_range, val_loss, label='Validation Loss')
plt.legend(loc='upper right')
plt.title('Training and Validation Loss')
plt.show()
```





Tasks:

Task 1: Execute the above code properly.

Task 2: Now, implement the image classification with given dataset using machine learning. Also, calculate the accuracy of the model.

Task 3: Understand and explain what did you analyze. Make a detailed analysis report. Also, cover all of the following questions.

- 1) explain when we should use Machine Learning and when not.
- 2) Compare the accuracy of both the way. Also, explain why you are getting the difference in accuracy.
- 3) Why we use Machine Learning rather than just software development?
- 4) How do you improve the performance of a model and why we need to improve the model performance?

(Submit the PDF of the report)

Task 4: Implement the above image classification code without the use of machine learning, but use different dataset.

Task 5: Implement any other code such as prediction without the use of machine learning.