

In [ ]:

```
from google.colab import drive
drive.mount('/content/drive/')
```

Mounted at /content/drive/

```
!ls "/content/drive/My Drive/"
```

'Colab Notebooks' Test Train

```
!pip install -q keras
```

```
import tensorflow as tf
tf.test.gpu_device_name()
```

Out[ ]: '/device:GPU:0'

```
from tensorflow.python.client import device_lib
device_lib.list_local_devices()
```

Out[ ]: [name: "/device:CPU:0"  
device\_type: "CPU"  
memory\_limit: 268435456  
locality {  
}  
incarnation: 16245284470133589210  
xla\_global\_id: -1,  
name: "/device:GPU:0"  
device\_type: "GPU"  
memory\_limit: 14626652160  
locality {  
bus\_id: 1  
links {  
}  
}  
incarnation: 2290483585779531354  
physical\_device\_desc: "device: 0, name: Tesla T4, pci bus id: 0000:00:04.0, compute  
capability: 7.5"  
xla\_global\_id: 416903419]

```
!cat /proc/meminfo
```

```

MemTotal:      13290480 kB
MemFree:       7595840 kB
MemAvailable:  11833920 kB
Buffers:       348040 kB
Cached:        4083300 kB
SwapCached:    0 kB
Active:        773588 kB
Inactive:      4494724 kB
Active(anon):  1232 kB
Inactive(anon): 847536 kB
Active(file):  772356 kB
Inactive(file): 3647188 kB
Unevictable:   16 kB
Mlocked:       16 kB
SwapTotal:     0 kB
SwapFree:      0 kB
Dirty:         284 kB
Writeback:     0 kB
AnonPages:     834232 kB
Mapped:        778292 kB
Shmem:         11788 kB
KReclaimable:  118952 kB
Slab:          166784 kB
SReclaimable:  118952 kB
SUnreclaim:    47832 kB
KernelStack:   5936 kB
PageTables:    12992 kB
SecPageTables: 0 kB
NFS_Unstable:  0 kB
Bounce:        0 kB
WritebackTmp:  0 kB
CommitLimit:   6645240 kB
Committed_AS:  3177372 kB
VmallocTotal:  34359738367 kB
VmallocUsed:    80308 kB
VmallocChunk:   0 kB
Percpu:        1088 kB
HardwareCorrupted: 0 kB
AnonHugePages: 2048 kB
ShmemHugePages: 0 kB
ShmemPmdMapped: 0 kB
FileHugePages: 0 kB
FilePmdMapped: 0 kB
CmaTotal:      0 kB
CmaFree:       0 kB
Unaccepted:    0 kB
HugePages_Total: 0
HugePages_Free: 0
HugePages_Rsvd: 0
HugePages_Surp: 0
Hugepagesize:  2048 kB
Hugetlb:       0 kB
DirectMap4k:   215864 kB
DirectMap2M:   5023744 kB
DirectMap1G:   10485760 kB

```

```
In [ ]: import os
os.chdir("/content/drive/My Drive/app")
```

```
In [ ]: import pathlib
import tensorflow as tf
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
import os
import PIL
from tensorflow import keras
from tensorflow.keras import layers
from tensorflow.keras.models import Sequential
from tensorflow.keras import Sequential
from tensorflow.keras.layers import Dense, Dropout, Flatten, Conv2D, MaxPooling2D
```

```
In [ ]: # Defining the path for train and test images
## Todo: Update the paths of the train and test dataset
data_dir_train = pathlib.Path("Train")
data_dir_test = pathlib.Path('Test')
```

```
In [ ]: image_count_train = len(list(data_dir_train.glob('*/*.jpg')))
print(image_count_train)
image_count_test = len(list(data_dir_test.glob('*/*.jpg')))
print(image_count_test)
```

2239

118

```
In [ ]: # Load cell using keras.preprocessing
# Create a dataset
# Define some parameters for the loader
```

```
In [ ]: batch_size = 32
img_height = 180
img_width = 180
```

```
In [ ]: # Use 80% of the images for training, and 20% for validation.
```

```
In [ ]: train_ds = tf.keras.utils.image_dataset_from_directory(
    data_dir_train,
    validation_split=0.2,
    subset="training",
    seed=123,
    image_size=(img_height, img_width),
    batch_size=batch_size)
```

Found 2239 files belonging to 9 classes.

Using 1792 files for training.

```
In [ ]:
```

```
In [ ]: val_ds = tf.keras.utils.image_dataset_from_directory(
    data_dir_train,
    validation_split=0.2,
    subset="validation",
    seed=123,
    image_size=(img_height, img_width),
    batch_size=batch_size)
```

Found 2239 files belonging to 9 classes.  
Using 447 files for validation.

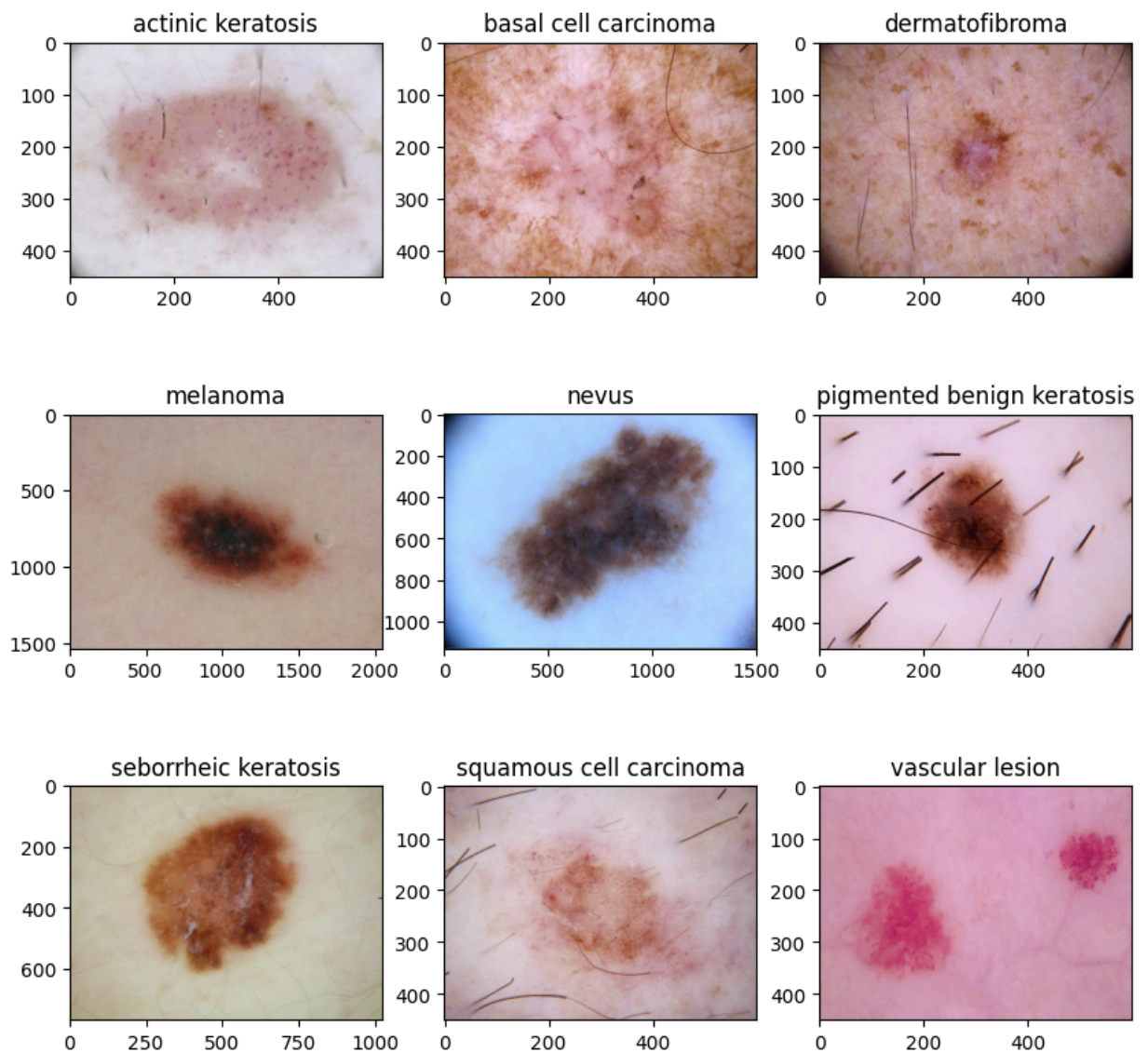
```
In [ ]: # List out all the classes of skin cancer and store them in a list.  
# You can find the class names in the class_names attribute on these datasets.  
# These correspond to the directory names in alphabetical order.  
class_names = train_ds.class_names  
print(class_names)
```

['actinic keratosis', 'basal cell carcinoma', 'dermatofibroma', 'melanoma', 'nevus',  
'pigmented benign keratosis', 'seborrheic keratosis', 'squamous cell carcinoma', 'vascular lesion']

```
In [ ]: ### Visualize the data  
#### Todo, create a code to visualize one instance of all the nine classes present in
```

```
In [ ]:
```

```
In [ ]: import matplotlib.pyplot as plt  
plt.figure(figsize=(10,10))  
for i in range(9):  
    plt.subplot(3, 3, i + 1)  
    image = plt.imread(str(list(data_dir_train.glob(class_names[i]+'/*.jpg'))[1]))  
    plt.title(class_names[i])  
    plt.imshow(image)  
### your code goes here, you can use training or validation data to visualize
```



```
In [ ]: AUTOTUNE = tf.data.experimental.AUTOTUNE
train_ds = train_ds.cache().shuffle(1000).prefetch(buffer_size=AUTOTUNE)
val_ds = val_ds.cache().prefetch(buffer_size=AUTOTUNE)
```

```
In [ ]: num_classes = 9

model = Sequential()
model.add(layers.experimental.preprocessing.Rescaling(1./255, input_shape=(img_height,
model.add(layers.Conv2D(32, kernel_size=(3,3), activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2)))
model.add(layers.Conv2D(64, kernel_size=(3,3), activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2)))
model.add(layers.Conv2D(64, kernel_size=(3,3), activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2)))
model.add(Flatten())
model.add(Dense(128, activation='relu'))
model.add(Dense(num_classes, activation='softmax'))
```

```
In [ ]: ### Compile the model
# Choose an appropriate optimiser and loss function for model training
```

```
In [ ]: ### Todo, choose an appropriate optimiser and loss function
model.compile(optimizer=tf.keras.optimizers.Adadelta(),
              loss=tf.keras.losses.SparseCategoricalCrossentropy(from_logits=True),
              metrics=['accuracy'])
```

```
In [ ]: # View the summary of all layers
model.summary()
```

Model: "sequential\_4"

Layer (type)	Output Shape	Param #
=====		
rescaling_4 (Rescaling)	(None, 180, 180, 3)	0
conv2d_6 (Conv2D)	(None, 180, 180, 16)	448
max_pooling2d_6 (MaxPoolin g2D)	(None, 90, 90, 16)	0
conv2d_7 (Conv2D)	(None, 90, 90, 32)	4640
max_pooling2d_7 (MaxPoolin g2D)	(None, 45, 45, 32)	0
conv2d_8 (Conv2D)	(None, 45, 45, 64)	18496
max_pooling2d_8 (MaxPoolin g2D)	(None, 22, 22, 64)	0
flatten_2 (Flatten)	(None, 30976)	0
dense_4 (Dense)	(None, 128)	3965056
dense_5 (Dense)	(None, 9)	1161
=====		
Total params: 3989801 (15.22 MB)		
Trainable params: 3989801 (15.22 MB)		
Non-trainable params: 0 (0.00 Byte)		

```
In [ ]: ## Training the model
```

```
In [ ]: epochs = 20
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=epochs
)
```

Epoch 1/20  
169/169 [=====] - 40s 228ms/step - loss: 2.0647 - accuracy: 0.2758 - val\_loss: 2.0723 - val\_accuracy: 0.2784

Epoch 2/20  
169/169 [=====] - 40s 228ms/step - loss: 2.0591 - accuracy: 0.2771 - val\_loss: 2.0661 - val\_accuracy: 0.2717

Epoch 3/20  
169/169 [=====] - 40s 231ms/step - loss: 2.0534 - accuracy: 0.2767 - val\_loss: 2.0610 - val\_accuracy: 0.2754

Epoch 4/20  
169/169 [=====] - 41s 233ms/step - loss: 2.0474 - accuracy: 0.2761 - val\_loss: 2.0550 - val\_accuracy: 0.2732

Epoch 5/20  
169/169 [=====] - 43s 245ms/step - loss: 2.0415 - accuracy: 0.2773 - val\_loss: 2.0489 - val\_accuracy: 0.2769

Epoch 6/20  
169/169 [=====] - 41s 235ms/step - loss: 2.0355 - accuracy: 0.2810 - val\_loss: 2.0425 - val\_accuracy: 0.2762

Epoch 7/20  
169/169 [=====] - 39s 226ms/step - loss: 2.0293 - accuracy: 0.2825 - val\_loss: 2.0367 - val\_accuracy: 0.2747

Epoch 8/20  
169/169 [=====] - 42s 242ms/step - loss: 2.0232 - accuracy: 0.2808 - val\_loss: 2.0299 - val\_accuracy: 0.2739

Epoch 9/20  
169/169 [=====] - 39s 225ms/step - loss: 2.0166 - accuracy: 0.2851 - val\_loss: 2.0227 - val\_accuracy: 0.2791

Epoch 10/20  
169/169 [=====] - 42s 241ms/step - loss: 2.0102 - accuracy: 0.2843 - val\_loss: 2.0166 - val\_accuracy: 0.2799

Epoch 11/20  
169/169 [=====] - 40s 229ms/step - loss: 2.0039 - accuracy: 0.2906 - val\_loss: 2.0099 - val\_accuracy: 0.2777

Epoch 12/20  
169/169 [=====] - 40s 232ms/step - loss: 1.9972 - accuracy: 0.2901 - val\_loss: 2.0039 - val\_accuracy: 0.2829

Epoch 13/20  
169/169 [=====] - 42s 243ms/step - loss: 1.9906 - accuracy: 0.2919 - val\_loss: 1.9962 - val\_accuracy: 0.2843

Epoch 14/20  
169/169 [=====] - 40s 229ms/step - loss: 1.9839 - accuracy: 0.2934 - val\_loss: 1.9901 - val\_accuracy: 0.2880

Epoch 15/20  
169/169 [=====] - 40s 227ms/step - loss: 1.9776 - accuracy: 0.2919 - val\_loss: 1.9826 - val\_accuracy: 0.2888

Epoch 16/20  
169/169 [=====] - 42s 244ms/step - loss: 1.9705 - accuracy: 0.2938 - val\_loss: 1.9762 - val\_accuracy: 0.2895

Epoch 17/20  
169/169 [=====] - 41s 237ms/step - loss: 1.9638 - accuracy: 0.2977 - val\_loss: 1.9692 - val\_accuracy: 0.2903

Epoch 18/20  
169/169 [=====] - 44s 254ms/step - loss: 1.9566 - accuracy: 0.2986 - val\_loss: 1.9634 - val\_accuracy: 0.2918

Epoch 19/20  
169/169 [=====] - 41s 233ms/step - loss: 1.9498 - accuracy: 0.3017 - val\_loss: 1.9553 - val\_accuracy: 0.2940

Epoch 20/20  
169/169 [=====] - 40s 230ms/step - loss: 1.9425 - accuracy: 0.3014 - val\_loss: 1.9480 - val\_accuracy: 0.3044

```
In [ ]: acc = history.history['accuracy']
        val_acc = history.history['val_accuracy']

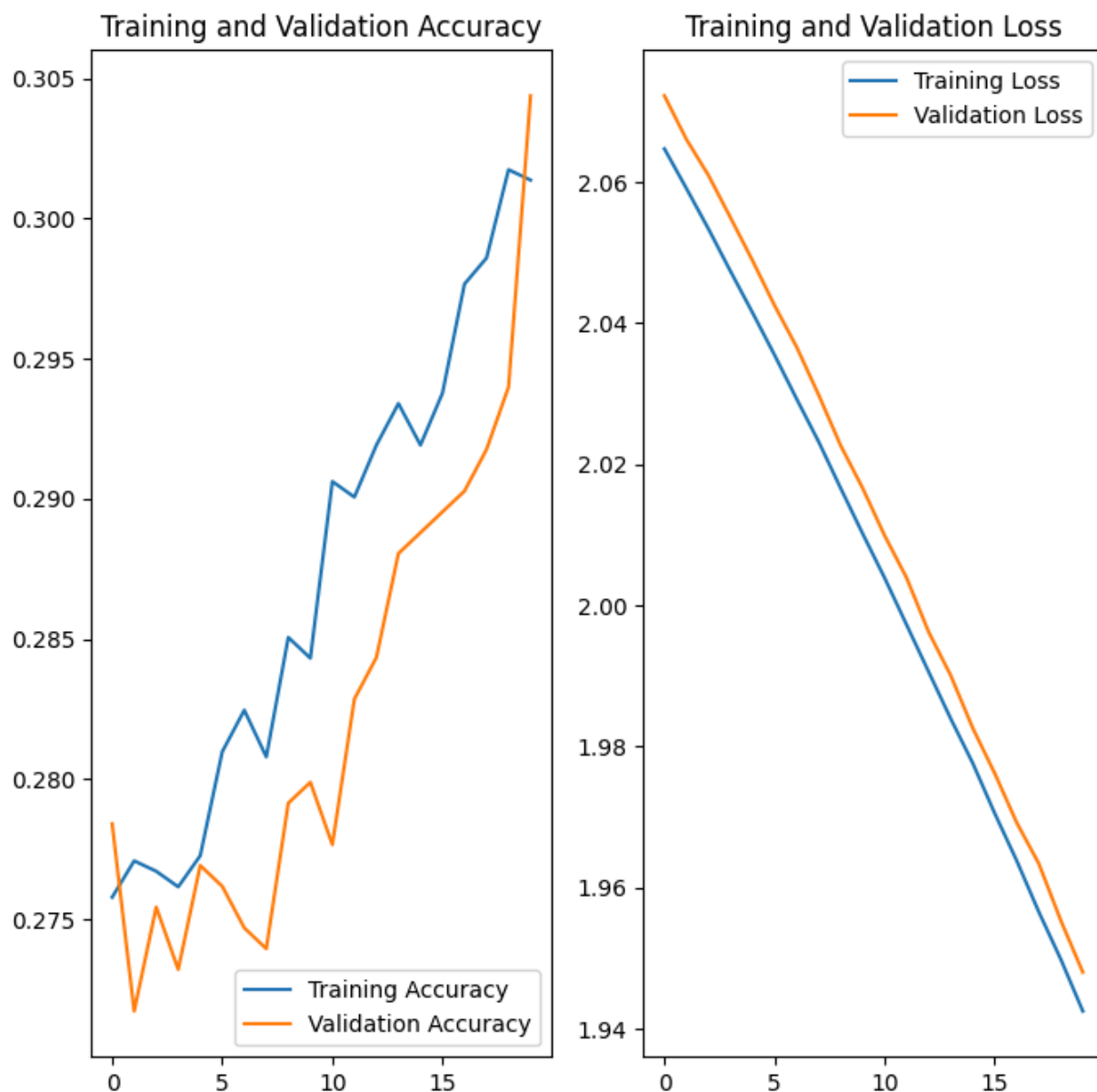
        loss = history.history['loss']
        val_loss = history.history['val_loss']

        epochs_range = range(epochs)

        plt.figure(figsize=(8, 8))
        plt.subplot(1, 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(1, 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()
```





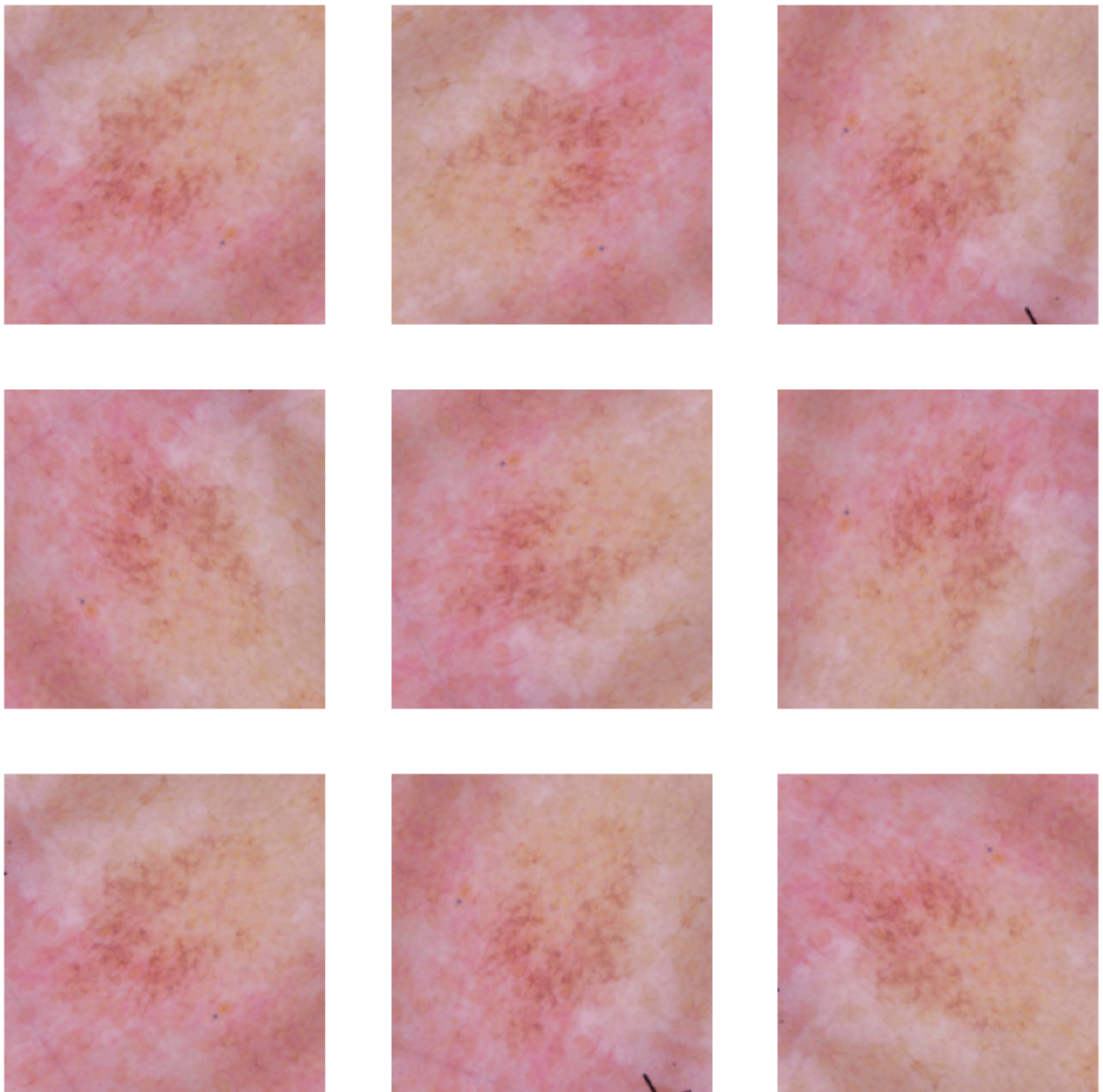
```
In [ ]: ## The training and validation accuracy are low. Since the training accuracy and valida
```

```
In [ ]: # Todo, after you have analysed the model fit history for presence of underfit or over
```

```
In [ ]: augmented_image = tf.keras.Sequential([
    layers.experimental.preprocessing.RandomFlip("horizontal_and_vertical",
                                                    input_shape=(img_height,img_width,3))
    layers.experimental.preprocessing.RandomRotation(0.2)])
```

```
In [ ]: # Todo, visualize how your augmentation strategy works for one instance of training im
```

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



```
In [ ]: ### Todo:  
### Create the model, compile and train the model
```

```
In [ ]: num_classes = 9  
  
model = Sequential()  
model.add(layers.experimental.preprocessing.Rescaling(1./255, input_shape=(img_height,  
model.add(layers.Conv2D(32, kernel_size=(3,3), activation='relu'))  
model.add(MaxPooling2D(pool_size=(2,2)))  
model.add(layers.Conv2D(64, kernel_size=(3,3), activation='relu'))  
model.add(MaxPooling2D(pool_size=(2,2)))  
model.add(layers.Conv2D(64, kernel_size=(3,3), activation='relu'))  
model.add(MaxPooling2D(pool_size=(2,2)))  
model.add(Flatten())  
model.add(Dense(128, activation='relu'))  
model.add(Dense(num_classes, activation='softmax'))
```

```
In [ ]: ### Todo, choose an appropriate optimiser and loss function  
model.compile(optimizer=tf.keras.optimizers.Adadelta(),
```

```
loss=tf.keras.losses.SparseCategoricalCrossentropy(from_logits=True),  
metrics=['accuracy'])
```

```
In [ ]: # View the summary of all layers  
model.summary()
```

```
In [ ]: ## Training the model
```

```
In [ ]: epochs = 20  
history = model.fit(  
    train_ds,  
    validation_data=val_ds,  
    epochs=epochs  
)
```

Epoch 1/20

/usr/local/lib/python3.10/dist-packages/keras/src/backend.py:5727: UserWarning: "`sparse\_categorical\_crossentropy` received `from\_logits=True`, but the `output` argument was produced by a Softmax activation and thus does not represent logits. Was this intended?

output, from\_logits = \_get\_logits(

56/56 [=====] - 3s 27ms/step - loss: 2.1629 - accuracy: 0.2070 - val\_loss: 2.1528 - val\_accuracy: 0.2058  
Epoch 2/20  
56/56 [=====] - 1s 24ms/step - loss: 2.1382 - accuracy: 0.2132 - val\_loss: 2.1338 - val\_accuracy: 0.1700  
Epoch 3/20  
56/56 [=====] - 1s 22ms/step - loss: 2.1198 - accuracy: 0.1908 - val\_loss: 2.1177 - val\_accuracy: 0.1834  
Epoch 4/20  
56/56 [=====] - 1s 21ms/step - loss: 2.1033 - accuracy: 0.1987 - val\_loss: 2.1035 - val\_accuracy: 0.2237  
Epoch 5/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0890 - accuracy: 0.2048 - val\_loss: 2.0913 - val\_accuracy: 0.2103  
Epoch 6/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0772 - accuracy: 0.2048 - val\_loss: 2.0809 - val\_accuracy: 0.2103  
Epoch 7/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0666 - accuracy: 0.2042 - val\_loss: 2.0722 - val\_accuracy: 0.2081  
Epoch 8/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0582 - accuracy: 0.2065 - val\_loss: 2.0648 - val\_accuracy: 0.2081  
Epoch 9/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0511 - accuracy: 0.2065 - val\_loss: 2.0587 - val\_accuracy: 0.2058  
Epoch 10/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0460 - accuracy: 0.2065 - val\_loss: 2.0538 - val\_accuracy: 0.2058  
Epoch 11/20  
56/56 [=====] - 1s 23ms/step - loss: 2.0412 - accuracy: 0.2054 - val\_loss: 2.0494 - val\_accuracy: 0.2058  
Epoch 12/20  
56/56 [=====] - 1s 24ms/step - loss: 2.0374 - accuracy: 0.2065 - val\_loss: 2.0457 - val\_accuracy: 0.2058  
Epoch 13/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0341 - accuracy: 0.2059 - val\_loss: 2.0425 - val\_accuracy: 0.2058  
Epoch 14/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0314 - accuracy: 0.2065 - val\_loss: 2.0401 - val\_accuracy: 0.2058  
Epoch 15/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0297 - accuracy: 0.2065 - val\_loss: 2.0378 - val\_accuracy: 0.2058  
Epoch 16/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0275 - accuracy: 0.2065 - val\_loss: 2.0358 - val\_accuracy: 0.2058  
Epoch 17/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0262 - accuracy: 0.2065 - val\_loss: 2.0342 - val\_accuracy: 0.2058  
Epoch 18/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0248 - accuracy: 0.2065 - val\_loss: 2.0325 - val\_accuracy: 0.2058  
Epoch 19/20  
56/56 [=====] - 1s 21ms/step - loss: 2.0232 - accuracy: 0.2065 - val\_loss: 2.0314 - val\_accuracy: 0.2058  
Epoch 20/20  
56/56 [=====] - 1s 22ms/step - loss: 2.0219 - accuracy: 0.2065 - val\_loss: 2.0299 - val\_accuracy: 0.2058

```
In [ ]: ### Visualizing the results
```

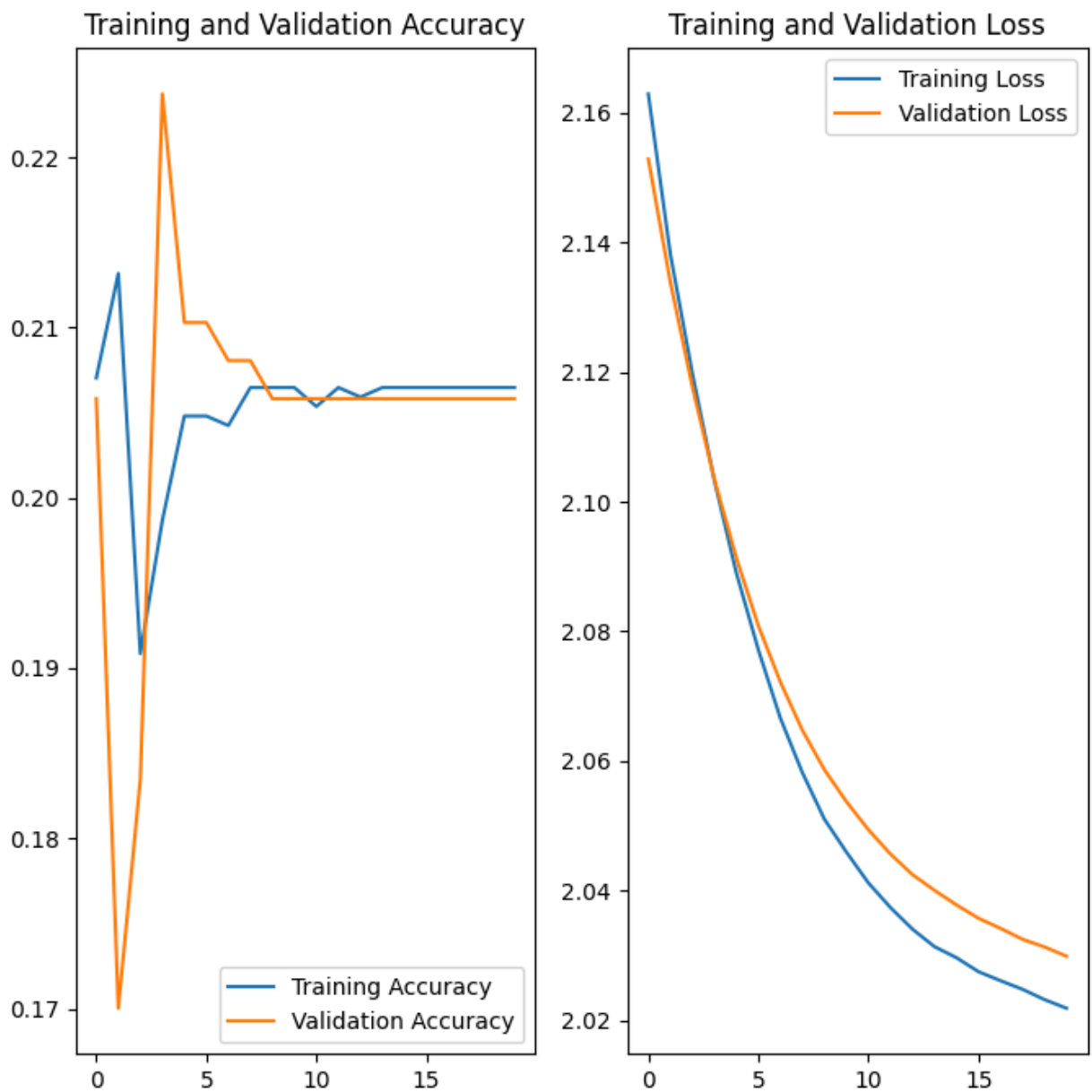
```
In [ ]: acc = history.history['accuracy']
        val_acc = history.history['val_accuracy']

        loss = history.history['loss']
        val_loss = history.history['val_loss']

        epochs_range = range(epochs)

        plt.figure(figsize=(8, 8))
        plt.subplot(1, 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(1, 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()
```



In [ ]: *## The training and validation accuracy are lower than the previous model. Since the t*

In [ ]: *#### \*\*Todo:\*\* Find the distribution of classes in the training dataset.  
#### \*\*Context:\*\* Many times real life datasets can have class imbalance, one class ca*

```
In [ ]: # images in each classes
class_diff=pd.DataFrame()
for i in range(len(class_names)):
    name= class_names[i]
    number = len(list(data_dir_train.glob(f'{class_names[i]}/*.jpg')))
    class_diff = pd.concat([class_diff, pd.DataFrame({'class': name, 'number': number},
class_diff
```

Out[ ]:

	class	number
0	actinic keratosis	114
1	basal cell carcinoma	376
2	dermatofibroma	95
3	melanoma	438
4	nevus	357
5	pigmented benign keratosis	462
6	seborrheic keratosis	77
7	squamous cell carcinoma	181
8	vascular lesion	139

In [ ]: *#### \*\*Todo:\*\* Write your findings here:  
#### - Which class has the least number of samples?*

*#The class 'seborrheic keratosis' has the least number of samples (77).*

In [ ]: *#### - Which classes dominate the data in terms proportionate number of samples?*

*# The class 'pigmented benign keratosis' has the maximum number of samples (462) and h*

In [ ]: `!pip install Augmentor`

Collecting Augmentor

Downloading Augmentor-0.2.12-py2.py3-none-any.whl (38 kB)

Requirement already satisfied: Pillow>=5.2.0 in /usr/local/lib/python3.10/dist-packages (from Augmentor) (9.4.0)

Requirement already satisfied: tqdm>=4.9.0 in /usr/local/lib/python3.10/dist-packages (from Augmentor) (4.66.4)

Requirement already satisfied: numpy>=1.11.0 in /usr/local/lib/python3.10/dist-packages (from Augmentor) (1.25.2)

Installing collected packages: Augmentor

Successfully installed Augmentor-0.2.12

In [ ]: *##To use `Augmentor`, the following general procedure is followed:*

*# 1. Instantiate a `Pipeline` object pointing to a directory containing your initial i  
# 2. Define a number of operations to perform on this data set using your `Pipeline` c  
# 3. Execute these operations by calling the `Pipeline's` `sample()` method.*

In [ ]: `path_to_training_dataset="Train/"`

`import Augmentor`

`for i in class_names:`

`p = Augmentor.Pipeline(path_to_training_dataset + i)`

`p.rotate(probability=0.7, max_left_rotation=10, max_right_rotation=10)`

`p.sample(500) ## We are adding 500 samples per class to make sure that none of the`

Initialised with 114 image(s) found.

Output directory set to Train/actinic keratosis/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x7FE4087E4F40>: 100%|██████████| 500/500 [00:19<00:00, 25.36 Samples/s]

Initialised with 376 image(s) found.

Output directory set to Train/basal cell carcinoma/output.

Processing <PIL.JpegImagePlugin.JpegImageFile image mode=RGB size=600x450 at 0x7FE411427E50>: 100%|██████████| 500/500 [00:17<00:00, 27.91 Samples/s]

Initialised with 95 image(s) found.

Output directory set to Train/dermatofibroma/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x7FE47058F580>: 100%|██████████| 500/500 [00:18<00:00, 26.66 Samples/s]

Initialised with 438 image(s) found.

Output directory set to Train/melanoma/output.

Processing <PIL.Image.Image image mode=RGB size=1024x768 at 0x7FE52C121ED0>: 100%|██████████| 500/500 [01:21<00:00, 6.10 Samples/s]

Initialised with 357 image(s) found.

Output directory set to Train/nevus/output.

Processing <PIL.Image.Image image mode=RGB size=919x802 at 0x7FE4114728C0>: 100%|██████████| 500/500 [01:19<00:00, 6.29 Samples/s]

Initialised with 462 image(s) found.

Output directory set to Train/pigmented benign keratosis/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x7FE52C120D30>: 100%|██████████| 500/500 [00:18<00:00, 27.29 Samples/s]

Initialised with 77 image(s) found.

Output directory set to Train/seborrheic keratosis/output.

Processing <PIL.Image.Image image mode=RGB size=1024x768 at 0x7FE4940C1B70>: 100%|██████████| 500/500 [00:41<00:00, 12.05 Samples/s]

Initialised with 181 image(s) found.

Output directory set to Train/squamous cell carcinoma/output.

Processing <PIL.JpegImagePlugin.JpegImageFile image mode=RGB size=600x450 at 0x7FE41067B370>: 100%|██████████| 500/500 [00:19<00:00, 25.73 Samples/s]

Initialised with 139 image(s) found.

Output directory set to Train/vascular lesion/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x7FE4097F28F0>: 100%|██████████| 500/500 [00:23<00:00, 20.93 Samples/s]

In [ ]: *# Augmentor has stored the augmented images in the output sub-directory of each of the*

```
In [ ]: image_count_train = len(list(data_dir_train.glob('*/output/*.jpg')))
        print(image_count_train)
```

4500

In [ ]: *### Lets see the distribution of augmented data after adding new images to the original*

```
In [ ]: from glob import glob
```

```
In [ ]: path_list_new = [x for x in glob(os.path.join(data_dir_train, '*', 'output', '*.jpg'))]
        path_list_new
```



```
Out[ ]: ['Train/actinic keratosis/output/actinic keratosis_original_ISIC_0028941.jpg_b10a9d6c
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'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0025630.jpg_25
191f39-a909-4abe-9092-d0c667e9753e.jpg',
'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0027229.jpg_28
176472-5698-45e1-8873-c75610a301ec.jpg',
'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0031513.jpg_7a
2218a5-37c2-4490-bc46-2ad1b3ad48dd.jpg',
'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0024515.jpg_ef
8591e1-5ec7-429c-ab22-5f5c661a0ba0.jpg',
'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0030800.jpg_ea
0032d3-68b2-404e-8c6f-5d4385c64d95.jpg',
'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0028035.jpg_30
78680e-9761-45a9-8dde-b244e34f6535.jpg',
'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0024572.jpg_3e
940a89-de89-4154-852d-7fea246efe81.jpg',
'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0028994.jpg_48
c0b765-fa99-4ac9-b198-2c02821773c2.jpg',
'Train/basal cell carcinoma/output/basal cell carcinoma_original_ISIC_0030893.jpg_73
1b3e66-b356-4ec8-8b2f-7709f579ce29.jpg',
...]
```

```
In [ ]: lesion_list_new = [os.path.basename(os.path.dirname(os.path.dirname(y))) for y in glob
lesion_list_new
```

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]

[illegible]



[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

```
In [ ]: dataframe_dict_new = dict(zip(path_list_new, lesion_list_new))
```

```
In [ ]: df2 = pd.DataFrame(list(dataframe_dict_new.items()), columns = ['Path', 'Label'])
        new_df = df2
```

```
In [ ]: new_df['Label'].value_counts()
```

```
Out[ ]: Label
actinic keratosis      500
basal cell carcinoma   500
seborrheic keratosis   500
nevus                  500
melanoma               500
pigmented benign keratosis 500
dermatofibroma         500
vascular lesion        500
squamous cell carcinoma 500
Name: count, dtype: int64
```

```
In [ ]: # So, now we have added 500 images to all the classes to maintain some class balance.
```

```
In [ ]: ##### **Todo**: Train the model on the data created using Augmentor
```

```
In [ ]: batch_size = 32
img_height = 180
img_width = 180
```

```
In [ ]: ##### **Todo:** Create a training dataset
```

```
In [ ]: train_ds = tf.keras.preprocessing.image_dataset_from_directory(
    data_dir_train,
    seed=123,
    validation_split = 0.2,
    subset = "training",
    image_size=(img_height, img_width),
    batch_size=batch_size)
```

Found 6739 files belonging to 9 classes.  
Using 5392 files for training.

```
In [ ]: ##### **Todo:** Create a validation dataset
```

```
In [ ]: val_ds = tf.keras.preprocessing.image_dataset_from_directory(
    data_dir_train,
    seed=123,
    validation_split = 0.2,
    subset = "validation",
    image_size=(img_height, img_width),
    batch_size=batch_size)
```

Found 6739 files belonging to 9 classes.  
Using 1347 files for validation.

```
In [ ]: ##### **Todo:** Create your model (make sure to include normalization)
```

```
In [ ]: num_classes = 9

model = Sequential()
model.add(layers.experimental.preprocessing.Rescaling(1./255, input_shape=(img_height,
model.add(layers.Conv2D(32, kernel_size=(3,3), activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2)))
model.add(layers.Conv2D(64, kernel_size=(3,3), activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2)))
model.add(layers.Conv2D(128, kernel_size=(6,6), activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2)))
```

```

model.add(Flatten())
model.add(Dense(128, activation='relu'))
model.add(Dense(num_classes, activation='softmax'))

```

```

In [ ]: ### Todo, choose an appropriate optimiser and loss function
model.compile(optimizer=tf.keras.optimizers.Adadelta(),
              loss=tf.keras.losses.SparseCategoricalCrossentropy(from_logits=True),
              metrics=['accuracy'])

```

```

In [ ]: # View the summary of all layers
model.summary()

```

Model: "sequential\_19"

Layer (type)	Output Shape	Param #
=====		
rescaling_18 (Rescaling)	(None, 180, 180, 3)	0
conv2d_91 (Conv2D)	(None, 178, 178, 32)	896
max_pooling2d_91 (MaxPooling2D)	(None, 89, 89, 32)	0
conv2d_92 (Conv2D)	(None, 87, 87, 64)	18496
max_pooling2d_92 (MaxPooling2D)	(None, 43, 43, 64)	0
conv2d_93 (Conv2D)	(None, 38, 38, 128)	295040
max_pooling2d_93 (MaxPooling2D)	(None, 19, 19, 128)	0
flatten_11 (Flatten)	(None, 46208)	0
dense_23 (Dense)	(None, 128)	5914752
dense_24 (Dense)	(None, 9)	1161
=====		
Total params: 6230345 (23.77 MB)		
Trainable params: 6230345 (23.77 MB)		
Non-trainable params: 0 (0.00 Byte)		

```

In [ ]: ## Training the model

```

```

In [ ]: epochs = 30
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=epochs
)

```

Epoch 1/30  
169/169 [=====] - 42s 234ms/step - loss: 2.1849 - accuracy: 0.1511 - val\_loss: 2.1851 - val\_accuracy: 0.2042

Epoch 2/30  
169/169 [=====] - 41s 234ms/step - loss: 2.1756 - accuracy: 0.1790 - val\_loss: 2.1819 - val\_accuracy: 0.2168

Epoch 3/30  
169/169 [=====] - 41s 235ms/step - loss: 2.1715 - accuracy: 0.1953 - val\_loss: 2.1792 - val\_accuracy: 0.2146

Epoch 4/30  
169/169 [=====] - 43s 247ms/step - loss: 2.1677 - accuracy: 0.1977 - val\_loss: 2.1759 - val\_accuracy: 0.2301

Epoch 5/30  
169/169 [=====] - 40s 232ms/step - loss: 2.1636 - accuracy: 0.2164 - val\_loss: 2.1724 - val\_accuracy: 0.2197

Epoch 6/30  
169/169 [=====] - 43s 247ms/step - loss: 2.1590 - accuracy: 0.2231 - val\_loss: 2.1674 - val\_accuracy: 0.2517

Epoch 7/30  
169/169 [=====] - 41s 236ms/step - loss: 2.1540 - accuracy: 0.2281 - val\_loss: 2.1621 - val\_accuracy: 0.2435

Epoch 8/30  
169/169 [=====] - 41s 233ms/step - loss: 2.1475 - accuracy: 0.2366 - val\_loss: 2.1545 - val\_accuracy: 0.2650

Epoch 9/30  
169/169 [=====] - 40s 232ms/step - loss: 2.1397 - accuracy: 0.2344 - val\_loss: 2.1456 - val\_accuracy: 0.2702

Epoch 10/30  
169/169 [=====] - 40s 231ms/step - loss: 2.1309 - accuracy: 0.2435 - val\_loss: 2.1363 - val\_accuracy: 0.2524

Epoch 11/30  
169/169 [=====] - 41s 235ms/step - loss: 2.1210 - accuracy: 0.2491 - val\_loss: 2.1247 - val\_accuracy: 0.2777

Epoch 12/30  
169/169 [=====] - 41s 237ms/step - loss: 2.1100 - accuracy: 0.2494 - val\_loss: 2.1129 - val\_accuracy: 0.2650

Epoch 13/30  
169/169 [=====] - 41s 234ms/step - loss: 2.0976 - accuracy: 0.2504 - val\_loss: 2.0996 - val\_accuracy: 0.2687

Epoch 14/30  
169/169 [=====] - 41s 236ms/step - loss: 2.0843 - accuracy: 0.2537 - val\_loss: 2.0853 - val\_accuracy: 0.2799

Epoch 15/30  
169/169 [=====] - 40s 229ms/step - loss: 2.0696 - accuracy: 0.2565 - val\_loss: 2.0690 - val\_accuracy: 0.2598

Epoch 16/30  
169/169 [=====] - 40s 231ms/step - loss: 2.0541 - accuracy: 0.2589 - val\_loss: 2.0527 - val\_accuracy: 0.2777

Epoch 17/30  
169/169 [=====] - 40s 229ms/step - loss: 2.0385 - accuracy: 0.2600 - val\_loss: 2.0369 - val\_accuracy: 0.2962

Epoch 18/30  
169/169 [=====] - 40s 232ms/step - loss: 2.0221 - accuracy: 0.2715 - val\_loss: 2.0194 - val\_accuracy: 0.2918

Epoch 19/30  
169/169 [=====] - 41s 234ms/step - loss: 2.0054 - accuracy: 0.2737 - val\_loss: 2.0015 - val\_accuracy: 0.2947

Epoch 20/30  
169/169 [=====] - 43s 246ms/step - loss: 1.9885 - accuracy: 0.2854 - val\_loss: 1.9841 - val\_accuracy: 0.3029

```

Epoch 21/30
169/169 [=====] - 40s 231ms/step - loss: 1.9714 - accuracy:
0.2889 - val_loss: 1.9668 - val_accuracy: 0.2910
Epoch 22/30
169/169 [=====] - 40s 230ms/step - loss: 1.9549 - accuracy:
0.2906 - val_loss: 1.9498 - val_accuracy: 0.3081
Epoch 23/30
169/169 [=====] - 42s 243ms/step - loss: 1.9386 - accuracy:
0.2990 - val_loss: 1.9333 - val_accuracy: 0.3244
Epoch 24/30
169/169 [=====] - 42s 243ms/step - loss: 1.9232 - accuracy:
0.3118 - val_loss: 1.9170 - val_accuracy: 0.3200
Epoch 25/30
169/169 [=====] - 42s 241ms/step - loss: 1.9078 - accuracy:
0.3192 - val_loss: 1.9024 - val_accuracy: 0.3333
Epoch 26/30
169/169 [=====] - 41s 238ms/step - loss: 1.8935 - accuracy:
0.3234 - val_loss: 1.8885 - val_accuracy: 0.3296
Epoch 27/30
169/169 [=====] - 42s 241ms/step - loss: 1.8800 - accuracy:
0.3251 - val_loss: 1.8750 - val_accuracy: 0.3489
Epoch 28/30
169/169 [=====] - 45s 258ms/step - loss: 1.8671 - accuracy:
0.3357 - val_loss: 1.8616 - val_accuracy: 0.3467
Epoch 29/30
169/169 [=====] - 42s 244ms/step - loss: 1.8549 - accuracy:
0.3375 - val_loss: 1.8491 - val_accuracy: 0.3541
Epoch 30/30
169/169 [=====] - 40s 232ms/step - loss: 1.8430 - accuracy:
0.3385 - val_loss: 1.8386 - val_accuracy: 0.3563

```

```
In [ ]: ##### **Todo:** Visualize the model results
```

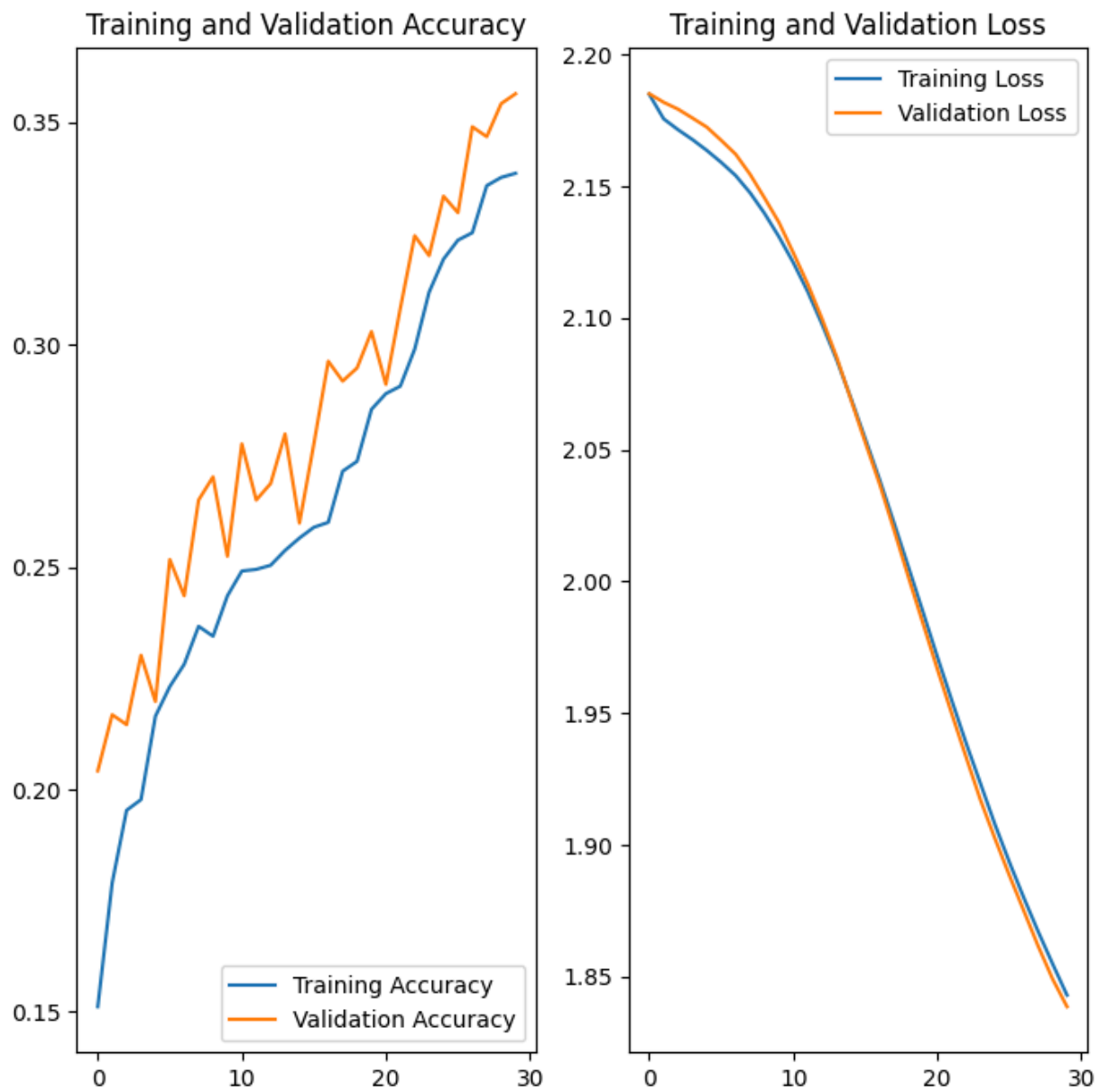
```
In [ ]: acc = history.history['accuracy']
val_acc = history.history['val_accuracy']

loss = history.history['loss']
val_loss = history.history['val_loss']

epochs_range = range(epochs)

plt.figure(figsize=(8, 8))
plt.subplot(1, 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(1, 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()
```



In [ ]: `#### **Todo:** Analyze your results here. Did you get rid of underfitting/overfitting`

In [ ]: `# The accuracy of the model has improved from 27% to 35% after the class imbalance and`