

rinkal-tanmay-lalith-nn

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Problem statement: To build a CNN based model which can accurately detect melanoma. Melanoma is a type of cancer that can be deadly if not detected early. It accounts for 75% of skin cancer deaths. A solution which can evaluate images and alert the dermatologists about the presence of melanoma has the potential to reduce a lot of manual effort needed in diagnosis.

0.0.1 Importing Skin Cancer Data

0.0.2 Importing all the important libraries

```
[34]: 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
```

```
[35]: ## If you are using the data by mounting the google drive, use the following :
from google.colab import drive
drive.mount('/content/gdrive')
```

Drive already mounted at /content/gdrive; to attempt to forcibly remount, call drive.mount("/content/gdrive", force_remount=True).

```
[36]: root_dir = "/content/gdrive/MyDrive/Skin cancer ISIC The International Skin_
↳Imaging Collaboration"
```

This assignment uses a dataset of about 2357 images of skin cancer types. The dataset contains 9 sub-directories in each train and test subdirectories. The 9 sub-directories contains the images of 9 skin cancer types respectively.

```
[37]: # Defining the path for train and test images
data_dir_train = pathlib.Path(root_dir + "/Train")
data_dir_test = pathlib.Path(root_dir + "/Test")
```

```
[38]: 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

0.0.3 Load using keras.preprocessing

Let's load these images off disk using the helpful `image_dataset_from_directory` utility.

0.0.4 Create a dataset

Define some parameters for the loader:

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

Use 80% of the images for training, and 20% for validation.

```
[40]: ## Write your train dataset here
      ## Note use seed=123 while creating your dataset using tf.keras.preprocessing.
      ↪image_dataset_from_directory
      ## Note, make sure your resize your images to the size img_height*img_width, ↵
      ↪while writting the dataset
      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 2239 files belonging to 9 classes.

Using 1792 files for training.

```
[41]: ## Write your validation dataset here
      ## Note use seed=123 while creating your dataset using tf.keras.preprocessing.
      ↪image_dataset_from_directory
      ## Note, make sure your resize your images to the size img_height*img_width, ↵
      ↪while writting the dataset
      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 2239 files belonging to 9 classes.
Using 447 files for validation.

```

[42]: # 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']

```

0.0.5 Visualize the data

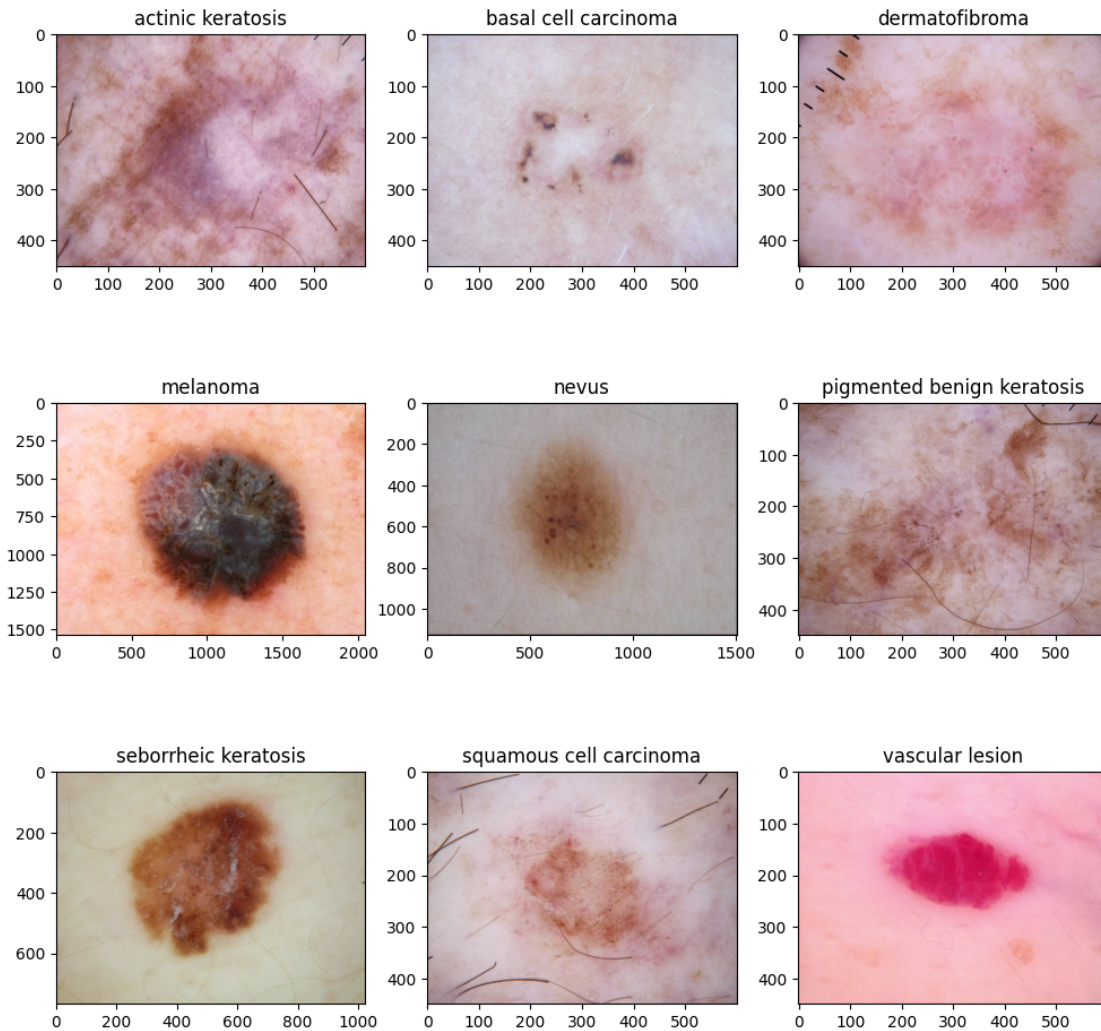
Code to visualize one instance of all the nine classes present in the dataset

```

[43]: import matplotlib.pyplot as plt

      ### your code goes here, you can use training or validation data to visualize
      plt.figure(figsize=(12,12))
      for i in range(len(class_names)):
          plt.subplot(3,3,i+1)
          imgValue = plt.imread(str(list(data_dir_train.glob(class_names[i]+'/*.*
↪jpg'))[1]))
          plt.title(class_names[i])
          plt.imshow(imgValue)

```



The `image_batch` is a tensor of the shape `(32, 180, 180, 3)`. This is a batch of 32 images of shape `180x180x3` (the last dimension refers to color channels RGB). The `label_batch` is a tensor of the shape `(32,)`, these are corresponding labels to the 32 images.

`Dataset.cache()` keeps the images in memory after they're loaded off disk during the first epoch.

`Dataset.prefetch()` overlaps data preprocessing and model execution while training.

```
[44]: 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)
```

0.0.6 Create the first model

Create a CNN model, which can accurately detect 9 classes present in the dataset. Use `layers.experimental.preprocessing.Rescaling` to normalize pixel values between

(0,1). The RGB channel values are in the [0, 255] range. This is not ideal for a neural network. Here, it is good to standardize values to be in the [0, 1]

```
[45]: ### Your code goes here
from keras.layers import Conv2D,Dense,Dropout,Flatten,MaxPool2D
classes_num = 9
model_1 = Sequential([
    layers.experimental.preprocessing.Rescaling(scale=1./
↪255,input_shape=(img_height,img_width,3))
])
# Creating Convolution layer with 64 features, 3x3 filter and activation ↵
↪function as relu with 2x2 pooling
model_1.add(layers.Conv2D(64,(3,3),padding = 'same',activation='relu'))
model_1.add(layers.MaxPooling2D())

# Creating Convolution layer with 128 features, 3x3 filter and activation ↵
↪function as relu with 2x2 pooling
model_1.add(layers.Conv2D(128,(3,3),padding = 'same',activation='relu'))
model_1.add(layers.MaxPooling2D())

model_1.add(Flatten())

model_1.add(Dense(256,activation='relu'))#added
model_1.add(Dense(classes_num,activation='softmax'))
```

0.0.7 Compile the model

Choose an appropriate optimiser and loss function for model training

```
[46]: ### Todo, choose an appropriate optimiser and loss function
model_1.compile(optimizer='adam',
                loss=tf.keras.losses.SparseCategoricalCrossentropy(),
                metrics=['accuracy'])
```

```
[47]: # View the summary of all layers
model_1.summary()
```

Model: "sequential_2"

| Layer (type) | Output Shape | Param # |
|------------------------------------|----------------------|---------|
| rescaling_2 (Rescaling) | (None, 180, 180, 3) | 0 |
| conv2d_4 (Conv2D) | (None, 180, 180, 64) | 1792 |
| max_pooling2d_4 (MaxPoolin g2D) | (None, 90, 90, 64) | 0 |

| | | |
|------------------------------------|---------------------|----------|
| conv2d_5 (Conv2D) | (None, 90, 90, 128) | 73856 |
| max_pooling2d_5 (MaxPoolin g2D) | (None, 45, 45, 128) | 0 |
| flatten_2 (Flatten) | (None, 259200) | 0 |
| dense_4 (Dense) | (None, 256) | 66355456 |
| dense_5 (Dense) | (None, 9) | 2313 |

```
=====
Total params: 66433417 (253.42 MB)
Trainable params: 66433417 (253.42 MB)
Non-trainable params: 0 (0.00 Byte)
-----
```

0.0.8 Train the model

```
[48]: epochs = 20
      history = model_1.fit(
          train_ds,
          validation_data=val_ds,
          epochs=epochs
      )
```

```
Epoch 1/20
56/56 [=====] - 22s 130ms/step - loss: 3.0700 -
accuracy: 0.2450 - val_loss: 1.6477 - val_accuracy: 0.4072
Epoch 2/20
56/56 [=====] - 4s 68ms/step - loss: 1.5922 - accuracy:
0.4425 - val_loss: 1.5328 - val_accuracy: 0.4676
Epoch 3/20
56/56 [=====] - 4s 69ms/step - loss: 1.3761 - accuracy:
0.5285 - val_loss: 1.3604 - val_accuracy: 0.5570
Epoch 4/20
56/56 [=====] - 4s 68ms/step - loss: 1.2307 - accuracy:
0.5787 - val_loss: 1.3785 - val_accuracy: 0.5280
Epoch 5/20
56/56 [=====] - 4s 68ms/step - loss: 1.1488 - accuracy:
0.5831 - val_loss: 1.5571 - val_accuracy: 0.5168
Epoch 6/20
56/56 [=====] - 4s 68ms/step - loss: 1.0344 - accuracy:
0.6440 - val_loss: 1.5722 - val_accuracy: 0.5481
Epoch 7/20
56/56 [=====] - 4s 68ms/step - loss: 0.8843 - accuracy:
0.6786 - val_loss: 1.5251 - val_accuracy: 0.5391
Epoch 8/20
```

```

56/56 [=====] - 4s 67ms/step - loss: 0.8306 - accuracy:
0.7015 - val_loss: 1.7214 - val_accuracy: 0.5302
Epoch 9/20
56/56 [=====] - 4s 67ms/step - loss: 0.6936 - accuracy:
0.7567 - val_loss: 1.7994 - val_accuracy: 0.5145
Epoch 10/20
56/56 [=====] - 4s 68ms/step - loss: 0.6398 - accuracy:
0.7790 - val_loss: 1.7694 - val_accuracy: 0.5570
Epoch 11/20
56/56 [=====] - 4s 67ms/step - loss: 0.5786 - accuracy:
0.7852 - val_loss: 2.0871 - val_accuracy: 0.5011
Epoch 12/20
56/56 [=====] - 4s 67ms/step - loss: 0.5312 - accuracy:
0.8136 - val_loss: 2.0194 - val_accuracy: 0.5056
Epoch 13/20
56/56 [=====] - 4s 68ms/step - loss: 0.4640 - accuracy:
0.8415 - val_loss: 2.0749 - val_accuracy: 0.4944
Epoch 14/20
56/56 [=====] - 4s 66ms/step - loss: 0.3727 - accuracy:
0.8622 - val_loss: 2.2761 - val_accuracy: 0.5391
Epoch 15/20
56/56 [=====] - 4s 66ms/step - loss: 0.3556 - accuracy:
0.8728 - val_loss: 2.2974 - val_accuracy: 0.5145
Epoch 16/20
56/56 [=====] - 4s 67ms/step - loss: 0.2951 - accuracy:
0.8968 - val_loss: 2.0935 - val_accuracy: 0.5123
Epoch 17/20
56/56 [=====] - 4s 67ms/step - loss: 0.2726 - accuracy:
0.8929 - val_loss: 2.2734 - val_accuracy: 0.5213
Epoch 18/20
56/56 [=====] - 4s 66ms/step - loss: 0.2773 - accuracy:
0.8862 - val_loss: 2.4169 - val_accuracy: 0.5101
Epoch 19/20
56/56 [=====] - 4s 66ms/step - loss: 0.2511 - accuracy:
0.9007 - val_loss: 2.2441 - val_accuracy: 0.5324
Epoch 20/20
56/56 [=====] - 4s 69ms/step - loss: 0.2160 - accuracy:
0.9096 - val_loss: 2.3789 - val_accuracy: 0.4989

```

0.0.9 Visualizing training results

```

[49]: 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()

```



0.0.10 Findings from First model:–

We can infer from the above graph that

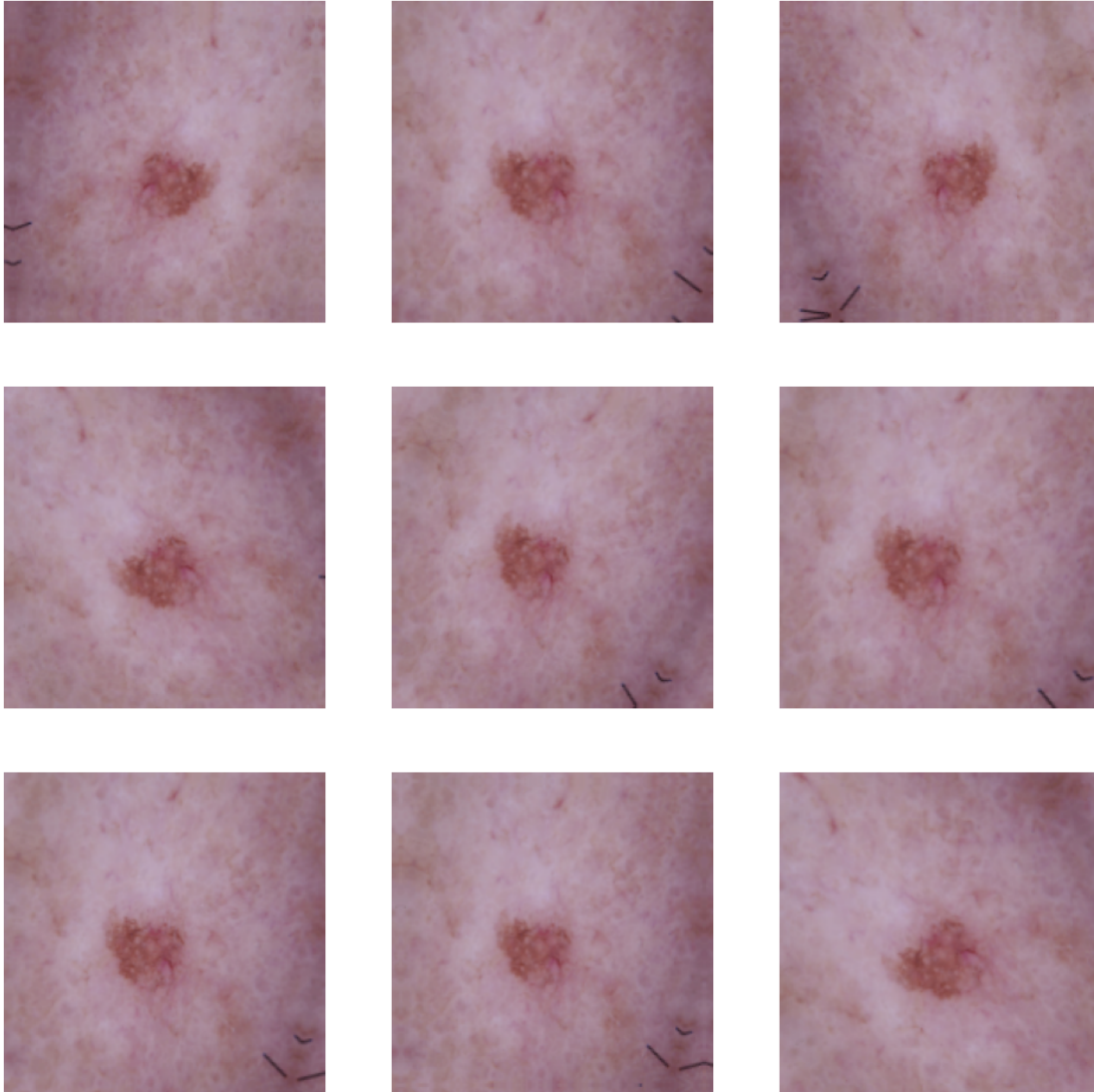
1. The validation accuracy stall at ~50% accuracy in training process, where as the training accuracy increases over time .
2. The training loss dereases with each epochs while the validation loss increases.
3. Training accuracy and validation accuracy are off by a large margin, as model has achieved training accuracy of ~91% while it has achieved around 50% accuracy on the validation set.
4. The difference between training and validation accuracy is very huge which in turn is a sign of overfitting.

```
[50]: # We observed that our model is overfitting. To handle this, We can introduce _
      ↪ more sample by augmenting the exisiting images.
      # Augmentation Strategies chosen
      # 1. Random Flip around horizontal axis.
      # 2. Random Rotation
      # 3. Random Zoom

data_augmentation = keras.Sequential(
    [
        layers.RandomFlip("horizontal",input_shape=(img_height,img_width,3)),
        layers.RandomRotation(0.1),
        layers.RandomZoom(0.1),
    ]
)
```

```
[51]: # Visualizing the augmentation strategy

plt.figure(figsize=(12, 12))
for images, _ in train_ds.take(1):
    for i in range(9):
        ax = plt.subplot(3, 3, i + 1)
        augmented_img = data_augmentation(images)
        plt.imshow(augmented_img[0].numpy().astype("uint8"))
        plt.axis("off")
```



0.0.11 Create the second model with the augmentation strategy.

0.0.12 Create the model, compile and train the model

```
[52]: ## We have used Dropout layer since there is an evidence of overfitting in your
      findings

model_2 = Sequential([
    data_augmentation,
    layers.experimental.preprocessing.Rescaling(scale=1./
    ↪255,input_shape=(img_height,img_width,3))
])
```

```

# Creating Convolution layer with 64 features, 3x3 filter and activation
↳function as relu with 2x2 pooling
model_2.add(layers.Conv2D(64,(3,3),padding = 'same',activation='relu'))
model_2.add(layers.MaxPooling2D())

# Creating Convolution layer with 128 features, 3x3 filter and activation
↳function as relu with 2x2 pooling
model_2.add(layers.Conv2D(128,(3,3),padding = 'same',activation='relu'))
model_2.add(layers.MaxPooling2D())
# Now this time adding a 20% dropout after the convolution layers
model_2.add(layers.Dropout(0.2))

model_2.add(Flatten())

model_2.add(Dense(256,activation='relu'))#added
model_2.add(Dense(classes_num,activation='softmax'))

```

0.0.13 Compiling the model

```

[53]: # compiling the model
model_2.compile(optimizer='adam',
                loss=tf.keras.losses.SparseCategoricalCrossentropy(),
                metrics=['accuracy'])
# Showing the Summary of all the layer in model_2
model_2.summary()

```

Model: "sequential_4"

| Layer (type) | Output Shape | Param # |
|------------------------------------|----------------------|---------|
| sequential_3 (Sequential) | (None, 180, 180, 3) | 0 |
| rescaling_3 (Rescaling) | (None, 180, 180, 3) | 0 |
| conv2d_6 (Conv2D) | (None, 180, 180, 64) | 1792 |
| max_pooling2d_6 (MaxPoolin g2D) | (None, 90, 90, 64) | 0 |
| conv2d_7 (Conv2D) | (None, 90, 90, 128) | 73856 |
| max_pooling2d_7 (MaxPoolin g2D) | (None, 45, 45, 128) | 0 |
| dropout (Dropout) | (None, 45, 45, 128) | 0 |
| flatten_3 (Flatten) | (None, 259200) | 0 |

| | | |
|-----------------|-------------|----------|
| dense_6 (Dense) | (None, 256) | 66355456 |
| dense_7 (Dense) | (None, 9) | 2313 |

```

=====
Total params: 66433417 (253.42 MB)
Trainable params: 66433417 (253.42 MB)
Non-trainable params: 0 (0.00 Byte)
-----

```

0.0.14 Training the model

```

[54]: ## Training the model for 20 epochs
epochs = 20
history = model_2.fit(
    train_ds,
    validation_data=val_ds,
    epochs=epochs
)

```

```

Epoch 1/20
56/56 [=====] - 8s 112ms/step - loss: 3.4046 -
accuracy: 0.2455 - val_loss: 1.8646 - val_accuracy: 0.3020
Epoch 2/20
56/56 [=====] - 6s 111ms/step - loss: 1.8197 -
accuracy: 0.3315 - val_loss: 1.7669 - val_accuracy: 0.3535
Epoch 3/20
56/56 [=====] - 6s 109ms/step - loss: 1.6535 -
accuracy: 0.4141 - val_loss: 1.6420 - val_accuracy: 0.4586
Epoch 4/20
56/56 [=====] - 6s 109ms/step - loss: 1.5484 -
accuracy: 0.4459 - val_loss: 1.7405 - val_accuracy: 0.3960
Epoch 5/20
56/56 [=====] - 6s 110ms/step - loss: 1.4648 -
accuracy: 0.4749 - val_loss: 1.5337 - val_accuracy: 0.4653
Epoch 6/20
56/56 [=====] - 6s 110ms/step - loss: 1.4420 -
accuracy: 0.4810 - val_loss: 1.4464 - val_accuracy: 0.5145
Epoch 7/20
56/56 [=====] - 6s 110ms/step - loss: 1.3961 -
accuracy: 0.4961 - val_loss: 1.4541 - val_accuracy: 0.5078
Epoch 8/20
56/56 [=====] - 6s 110ms/step - loss: 1.3681 -
accuracy: 0.5257 - val_loss: 1.4458 - val_accuracy: 0.4966
Epoch 9/20
56/56 [=====] - 6s 110ms/step - loss: 1.3461 -
accuracy: 0.5184 - val_loss: 1.4241 - val_accuracy: 0.5168

```

```

Epoch 10/20
56/56 [=====] - 6s 111ms/step - loss: 1.3354 -
accuracy: 0.5273 - val_loss: 1.4501 - val_accuracy: 0.5235
Epoch 11/20
56/56 [=====] - 6s 109ms/step - loss: 1.2843 -
accuracy: 0.5352 - val_loss: 1.3885 - val_accuracy: 0.5302
Epoch 12/20
56/56 [=====] - 6s 111ms/step - loss: 1.2447 -
accuracy: 0.5597 - val_loss: 1.3459 - val_accuracy: 0.5436
Epoch 13/20
56/56 [=====] - 6s 110ms/step - loss: 1.2186 -
accuracy: 0.5592 - val_loss: 1.3919 - val_accuracy: 0.5593
Epoch 14/20
56/56 [=====] - 6s 111ms/step - loss: 1.2049 -
accuracy: 0.5765 - val_loss: 1.3678 - val_accuracy: 0.5548
Epoch 15/20
56/56 [=====] - 6s 111ms/step - loss: 1.2473 -
accuracy: 0.5452 - val_loss: 1.3804 - val_accuracy: 0.5570
Epoch 16/20
56/56 [=====] - 6s 109ms/step - loss: 1.1926 -
accuracy: 0.5709 - val_loss: 1.3467 - val_accuracy: 0.5615
Epoch 17/20
56/56 [=====] - 6s 110ms/step - loss: 1.1273 -
accuracy: 0.5815 - val_loss: 1.4751 - val_accuracy: 0.5324
Epoch 18/20
56/56 [=====] - 6s 109ms/step - loss: 1.1373 -
accuracy: 0.5843 - val_loss: 1.3877 - val_accuracy: 0.5749
Epoch 19/20
56/56 [=====] - 6s 111ms/step - loss: 1.1386 -
accuracy: 0.5915 - val_loss: 1.3622 - val_accuracy: 0.5257
Epoch 20/20
56/56 [=====] - 6s 112ms/step - loss: 1.1166 -
accuracy: 0.5843 - val_loss: 1.3481 - val_accuracy: 0.5347

```

0.0.15 Visualizing the results

```

[55]: 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')

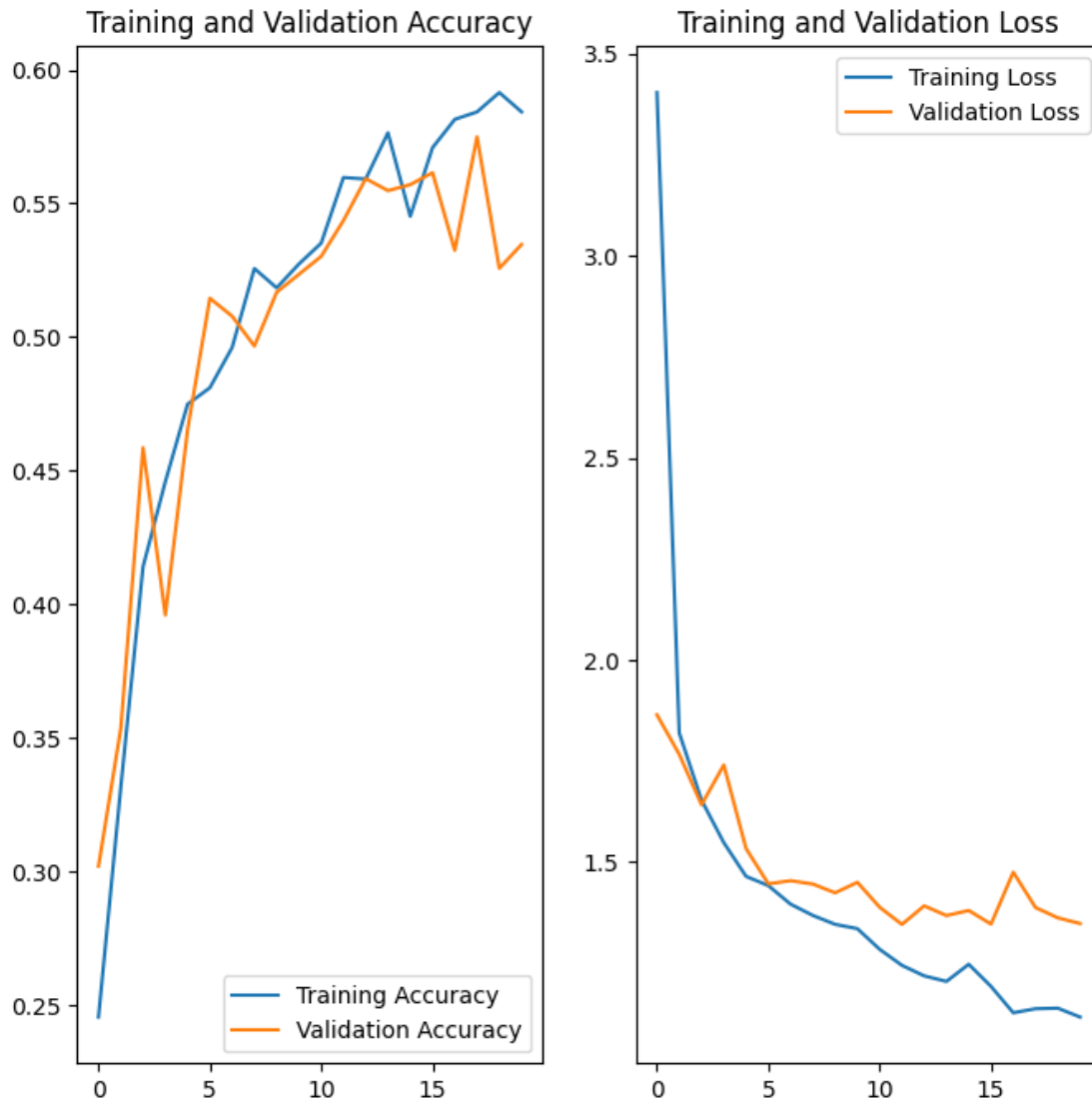
```

```

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()

```



0.1 Findings from Second model:–

We can infer from above graph that

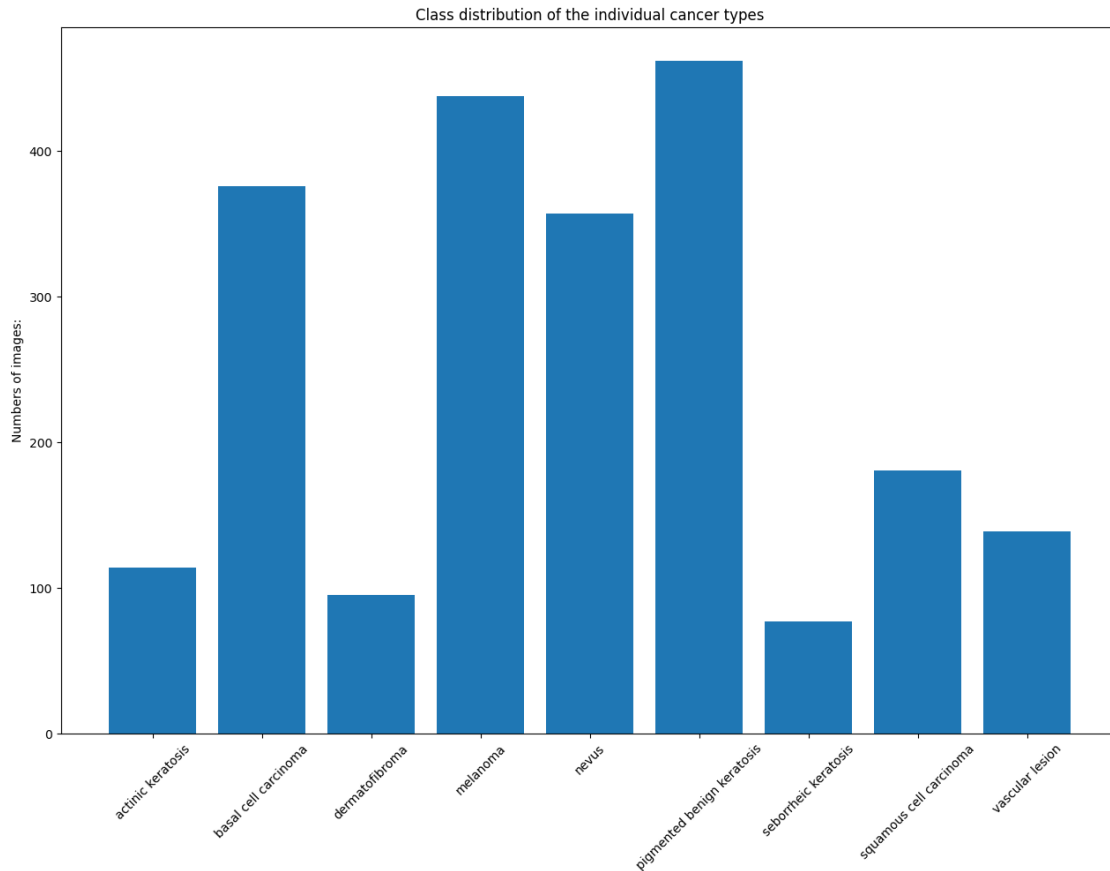
1. The training accuracy increases over time, where as the validation accuracy increases and stall at 54% accuracy during training process.
2. Both training loss as well as validation loss decreases during training process with each epochs.
3. The gap between training accuracy and validation accuracy have decreased from previous model, and it has achieved around 54% accuracy on the validation set.
4. The difference in accuracy between training and validation is very less, which is good as it signifies that model has not overfit.

Find the distribution of classes in the training dataset.

Context: Many times real life datasets can have class imbalance, one class can have proportionately higher number of samples compared to the others. Class imbalance can have a detrimental effect on the final model quality. Hence as a sanity check it becomes important to check what is the distribution of classes in the data.

```
[56]: # Plot the images to check if all the cancer types are equally distributed
fig = plt.figure(figsize=(12,8))
ax = fig.add_axes([0,0,1,1])
x=[]
y=[]
for i in range(len(class_names)):
    x.append(class_names[i])
    y.append(len(list(data_dir_train.glob(class_names[i]+'/*.jpg'))))

ax.bar(x,y)
ax.set_ylabel('Numbers of images:')
ax.set_title('Class distribution of the individual cancer types')
plt.xticks(rotation=45)
plt.show()
```



```
[57]: ## Your code goes here.
for indx in range(len(class_names)):
    print(class_names[indx], ' - ', len(list(data_dir_train.
    ↳glob(class_names[indx]+'/*.jpg'))))
```

```
actinic keratosis - 114
basal cell carcinoma - 376
dermatofibroma - 95
melanoma - 438
nevus - 357
pigmented benign keratosis - 462
seborrheic keratosis - 77
squamous cell carcinoma - 181
vascular lesion - 139
```

0.2 Findings

1.) Which class has the least number of samples?

Ans. 1) seborrheic keratosis has the least number of samples which is 77 in total.

2.) Which classes dominate the data in terms proportionate number of samples?

Ans. 2) pigmented benign keratosis dominates with 462 samples in total.

Rectify the class imbalance

Context: You can use a python package known as Augmentor (<https://augmentor.readthedocs.io/en/master/>) to add more samples across all classes so that none of the classes have very few samples.

```
[58]: !pip install Augmentor
```

```
Requirement already satisfied: Augmentor in /usr/local/lib/python3.10/dist-packages (0.2.12)
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) (4.66.1)
Requirement already satisfied: numpy>=1.11.0 in /usr/local/lib/python3.10/dist-packages (from Augmentor) (1.23.5)
```

To use Augmentor, the following general procedure is followed:

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

```
[59]: path_to_training_dataset= root_dir + "/Train/"
import Augmentor
for i in class_names:
    print(path_to_training_dataset + i)
    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 classes are sparse.
```

```
/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/actinic keratosis
Initialised with 114 image(s) found.
```

```
Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/actinic keratosis/output.
```

```
Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x78AB40012DA0>:
100%|          | 500/500 [00:21<00:00, 23.77 Samples/s]
```

```
/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/basal cell carcinoma
Initialised with 376 image(s) found.
```

```
Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/basal cell carcinoma/output.
```

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x78AA923B1630>:
100%| | 500/500 [00:21<00:00, 23.11 Samples/s]

/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/dermatofibroma
Initialised with 95 image(s) found.
Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/dermatofibroma/output.

Processing <PIL.JpegImagePlugin.JpegImageFile image mode=RGB size=600x450 at
0x78AA8834F910>: 100%| | 500/500 [00:22<00:00, 22.00 Samples/s]

/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/melanoma
Initialised with 438 image(s) found.
Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/melanoma/output.

Processing <PIL.Image.Image image mode=RGB size=3872x2592 at 0x78AB38ECA170>:
100%| | 500/500 [01:27<00:00, 5.70 Samples/s]

/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/nevus
Initialised with 357 image(s) found.
Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/nevus/output.

Processing <PIL.Image.Image image mode=RGB size=767x576 at 0x78AA96BAF220>:
100%| | 500/500 [01:17<00:00, 6.48 Samples/s]

/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/pigmented benign keratosis
Initialised with 462 image(s) found.
Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/pigmented benign
keratosis/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x78AA923B03A0>:
100%| | 500/500 [00:16<00:00, 29.59 Samples/s]

/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/seborrheic keratosis
Initialised with 77 image(s) found.
Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The
International Skin Imaging Collaboration/Train/seborrheic keratosis/output.

Processing <PIL.Image.Image image mode=RGB size=1024x768 at 0x78AA88331630>:
100%| | 500/500 [00:36<00:00, 13.75 Samples/s]

/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/squamous cell carcinoma
Initialised with 181 image(s) found.

Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/squamous cell carcinoma/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x78AA8847ECE0>:
100%| | 500/500 [00:18<00:00, 27.11 Samples/s]

/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/vascular lesion
Initialised with 139 image(s) found.

Output directory set to /content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/vascular lesion/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x78AB40012DA0>:
100%| | 500/500 [00:18<00:00, 27.19 Samples/s]

Augmentor has stored the augmented images in the output sub-directory of each of the sub-directories of skin cancer types.. Lets take a look at total count of augmented images.

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

4500

0.2.1 Lets see the distribution of augmented data after adding new images to the original training data.

```
[61]: from glob import glob  
      path_list = [x for x in glob(os.path.join(data_dir_train, '*', 'output', '*.  
      ↪jpg'))]  
      path_list
```

```
[61]: ['/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging  
Collaboration/Train/pigmented benign keratosis/output/pigmented benign  
keratosis_original_ISIC_0025767.jpg_0bf94cb8-0786-45f2-97d8-8646408d725e.jpg',  
      '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging  
Collaboration/Train/pigmented benign keratosis/output/pigmented benign  
keratosis_original_ISIC_0027982.jpg_3daed584-d26b-4231-a31b-d07ce259fa43.jpg',  
      '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging  
Collaboration/Train/pigmented benign keratosis/output/pigmented benign  
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Collaboration/Train/pigmented benign keratosis/output/pigmented benign  
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Collaboration/Train/pigmented benign keratosis/output/pigmented benign  
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      '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging  
Collaboration/Train/pigmented benign keratosis/output/pigmented benign  
keratosis_original_ISIC_0027533.jpg_ec1dcf7b-b9a4-4917-b9ce-39358959123c.jpg',  
      '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
```

Collaboration/Train/pigmented benign keratosis/output/pigmented benign
keratosis_original_ISIC_0027437.jpg_0e6de4e0-5540-4f0c-a1bd-5774fd9c3682.jpg',
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keratosis_original_ISIC_0024495.jpg_de7e6e23-ee42-4d37-bedc-f1b0178f9610.jpg',
'/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
Collaboration/Train/pigmented benign keratosis/output/pigmented benign
keratosis_original_ISIC_0026634.jpg_2f34867a-7bc9-4853-a67d-662ae9c145b2.jpg',
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'/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collab

```

oration/Train/melanoma/output/melanoma_original_ISIC_0011139.jpg_1fb30440-12f1-4
ee6-b176-75eb5952e6f9.jpg',
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oration/Train/melanoma/output/melanoma_original_ISIC_0010267.jpg_d4380074-7cce-4
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oration/Train/melanoma/output/melanoma_original_ISIC_0011040.jpg_7d2b819b-ef8c-4
6e0-960a-5a7e2fe71dae.jpg',
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oration/Train/melanoma/output/melanoma_original_ISIC_0001148.jpg_b15d5de7-e732-4
e35-a6ae-cc07e8c58b05.jpg',
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oration/Train/melanoma/output/melanoma_original_ISIC_0000401.jpg_48662dfa-a7b2-4
db5-b6fa-f243d1d41c6c.jpg',
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oration/Train/melanoma/output/melanoma_original_ISIC_0001121.jpg_3ff09bf0-eae0-4
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oration/Train/melanoma/output/melanoma_original_ISIC_0001154.jpg_65d76bb3-8abe-4
8d5-917a-a5f229c41df9.jpg',
  ...]

```

```
[62]: lesion_list_new = [os.path.basename(os.path.dirname(os.path.dirname(y))) for y
    ↪in glob(os.path.join(data_dir_train, '*', 'output', '*.jpg'))]
lesion_list_new
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
[63]: dataframe_dict_new = dict(zip(path_list, lesion_list_new))
```

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

```
[65]: df2['Label'].value_counts()
```



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

So, now we have added 500 images to all the classes to maintain some class balance. We can add more images as we want to improve training process.

Train the model on the data created using Augmentor

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

Create a training dataset

```
[67]: #data_dir_train="path to directory with training data + data created using
      ↪augmentor"
      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.

Create a validation dataset

```
[68]: 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.

Creating the model

```
[69]: ## your code goes here
model_3 = Sequential([
    data_augmentation,
    layers.experimental.preprocessing.Rescaling(scale=1./
↪255,input_shape=(img_height,img_width,3))
])
# Creating Convolution layer with 64 features, 3x3 filter and activation
↪function as relu with 2x2 pooling
model_3.add(layers.Conv2D(64,(3,3),padding = 'same',activation='relu'))
model_3.add(layers.MaxPooling2D())

# Creating Convolution layer with 128 features, 3x3 filter and activation
↪function as relu with 2x2 pooling
model_3.add(layers.Conv2D(128,(3,3),padding = 'same',activation='relu'))
model_3.add(layers.MaxPooling2D())
# Now this time adding a 20% dropout after the convolution layers
model_3.add(layers.Dropout(0.2))

model_3.add(Flatten())

model_3.add(Dense(256,activation='relu'))#added
model_3.add(Dense(classes_num,activation='softmax'))
```

Compiling your model

```
[70]: # compiling the model
model_3.compile(optimizer='adam',
                loss=tf.keras.losses.SparseCategoricalCrossentropy(),
                metrics=['accuracy'])
# Showing the Summary of all the layer in model_2
model_3.summary()
```

Model: "sequential_5"

| Layer (type) | Output Shape | Param # |
|------------------------------------|----------------------|---------|
| ===== | | |
| sequential_3 (Sequential) | (None, 180, 180, 3) | 0 |
| rescaling_4 (Rescaling) | (None, 180, 180, 3) | 0 |
| conv2d_8 (Conv2D) | (None, 180, 180, 64) | 1792 |
| max_pooling2d_8 (MaxPoolin g2D) | (None, 90, 90, 64) | 0 |
| conv2d_9 (Conv2D) | (None, 90, 90, 128) | 73856 |

| | | |
|------------------------------------|---------------------|----------|
| max_pooling2d_9 (MaxPoolin g2D) | (None, 45, 45, 128) | 0 |
| dropout_1 (Dropout) | (None, 45, 45, 128) | 0 |
| flatten_4 (Flatten) | (None, 259200) | 0 |
| dense_8 (Dense) | (None, 256) | 66355456 |
| dense_9 (Dense) | (None, 9) | 2313 |

```

=====
Total params: 66433417 (253.42 MB)
Trainable params: 66433417 (253.42 MB)
Non-trainable params: 0 (0.00 Byte)
-----

```

Train your model

```
[71]: epochs = 30
      history = model_3.fit(
          train_ds,
          validation_data=val_ds,
          epochs=epochs
      )
```

```

Epoch 1/30
169/169 [=====] - 54s 297ms/step - loss: 2.6360 -
accuracy: 0.2085 - val_loss: 1.9890 - val_accuracy: 0.2205
Epoch 2/30
169/169 [=====] - 42s 240ms/step - loss: 1.7032 -
accuracy: 0.3483 - val_loss: 1.6599 - val_accuracy: 0.3682
Epoch 3/30
169/169 [=====] - 41s 234ms/step - loss: 1.5541 -
accuracy: 0.4078 - val_loss: 1.5562 - val_accuracy: 0.4306
Epoch 4/30
169/169 [=====] - 38s 218ms/step - loss: 1.4721 -
accuracy: 0.4394 - val_loss: 1.4599 - val_accuracy: 0.4439
Epoch 5/30
169/169 [=====] - 42s 242ms/step - loss: 1.3922 -
accuracy: 0.4677 - val_loss: 1.4102 - val_accuracy: 0.4462
Epoch 6/30
169/169 [=====] - 42s 240ms/step - loss: 1.3385 -
accuracy: 0.4892 - val_loss: 1.4192 - val_accuracy: 0.4551
Epoch 7/30
169/169 [=====] - 41s 238ms/step - loss: 1.2996 -
accuracy: 0.5067 - val_loss: 1.3344 - val_accuracy: 0.5085
Epoch 8/30

```

169/169 [=====] - 41s 239ms/step - loss: 1.2689 - accuracy: 0.5172 - val_loss: 1.2341 - val_accuracy: 0.5367
Epoch 9/30
169/169 [=====] - 37s 215ms/step - loss: 1.1714 - accuracy: 0.5542 - val_loss: 1.2853 - val_accuracy: 0.5375
Epoch 10/30
169/169 [=====] - 42s 243ms/step - loss: 1.1843 - accuracy: 0.5547 - val_loss: 1.1982 - val_accuracy: 0.5575
Epoch 11/30
169/169 [=====] - 38s 222ms/step - loss: 1.0731 - accuracy: 0.5912 - val_loss: 1.1770 - val_accuracy: 0.5731
Epoch 12/30
169/169 [=====] - 38s 219ms/step - loss: 1.1000 - accuracy: 0.5931 - val_loss: 1.0930 - val_accuracy: 0.5902
Epoch 13/30
169/169 [=====] - 42s 240ms/step - loss: 1.0002 - accuracy: 0.6291 - val_loss: 1.0569 - val_accuracy: 0.6036
Epoch 14/30
169/169 [=====] - 38s 220ms/step - loss: 0.9660 - accuracy: 0.6311 - val_loss: 1.0548 - val_accuracy: 0.6229
Epoch 15/30
169/169 [=====] - 38s 221ms/step - loss: 0.9589 - accuracy: 0.6367 - val_loss: 1.0020 - val_accuracy: 0.6288
Epoch 16/30
169/169 [=====] - 38s 219ms/step - loss: 0.8695 - accuracy: 0.6691 - val_loss: 1.0974 - val_accuracy: 0.5991
Epoch 17/30
169/169 [=====] - 38s 216ms/step - loss: 0.8635 - accuracy: 0.6741 - val_loss: 0.9215 - val_accuracy: 0.6867
Epoch 18/30
169/169 [=====] - 38s 219ms/step - loss: 0.8439 - accuracy: 0.6888 - val_loss: 0.9017 - val_accuracy: 0.6897
Epoch 19/30
169/169 [=====] - 41s 238ms/step - loss: 0.7807 - accuracy: 0.7088 - val_loss: 0.8092 - val_accuracy: 0.7030
Epoch 20/30
169/169 [=====] - 41s 239ms/step - loss: 0.7643 - accuracy: 0.7161 - val_loss: 0.8193 - val_accuracy: 0.7016
Epoch 21/30
169/169 [=====] - 38s 221ms/step - loss: 0.7144 - accuracy: 0.7337 - val_loss: 0.8300 - val_accuracy: 0.7290
Epoch 22/30
169/169 [=====] - 41s 237ms/step - loss: 0.7174 - accuracy: 0.7337 - val_loss: 0.8373 - val_accuracy: 0.7120
Epoch 23/30
169/169 [=====] - 38s 219ms/step - loss: 0.6853 - accuracy: 0.7513 - val_loss: 0.8241 - val_accuracy: 0.7298
Epoch 24/30

```

169/169 [=====] - 41s 237ms/step - loss: 0.6731 -
accuracy: 0.7515 - val_loss: 0.7853 - val_accuracy: 0.7439
Epoch 25/30
169/169 [=====] - 38s 218ms/step - loss: 0.6499 -
accuracy: 0.7611 - val_loss: 0.7614 - val_accuracy: 0.7394
Epoch 26/30
169/169 [=====] - 38s 219ms/step - loss: 0.6630 -
accuracy: 0.7502 - val_loss: 0.7863 - val_accuracy: 0.7387
Epoch 27/30
169/169 [=====] - 41s 238ms/step - loss: 0.5899 -
accuracy: 0.7789 - val_loss: 0.7291 - val_accuracy: 0.7587
Epoch 28/30
169/169 [=====] - 41s 238ms/step - loss: 0.6039 -
accuracy: 0.7678 - val_loss: 0.8170 - val_accuracy: 0.7558
Epoch 29/30
169/169 [=====] - 41s 237ms/step - loss: 0.5725 -
accuracy: 0.7812 - val_loss: 0.7504 - val_accuracy: 0.7773
Epoch 30/30
169/169 [=====] - 41s 237ms/step - loss: 0.5649 -
accuracy: 0.7889 - val_loss: 0.7828 - val_accuracy: 0.7632

```

Visualize the model results

```

[72]: acc = history.history['accuracy']
      val_acc = history.history['val_accuracy']

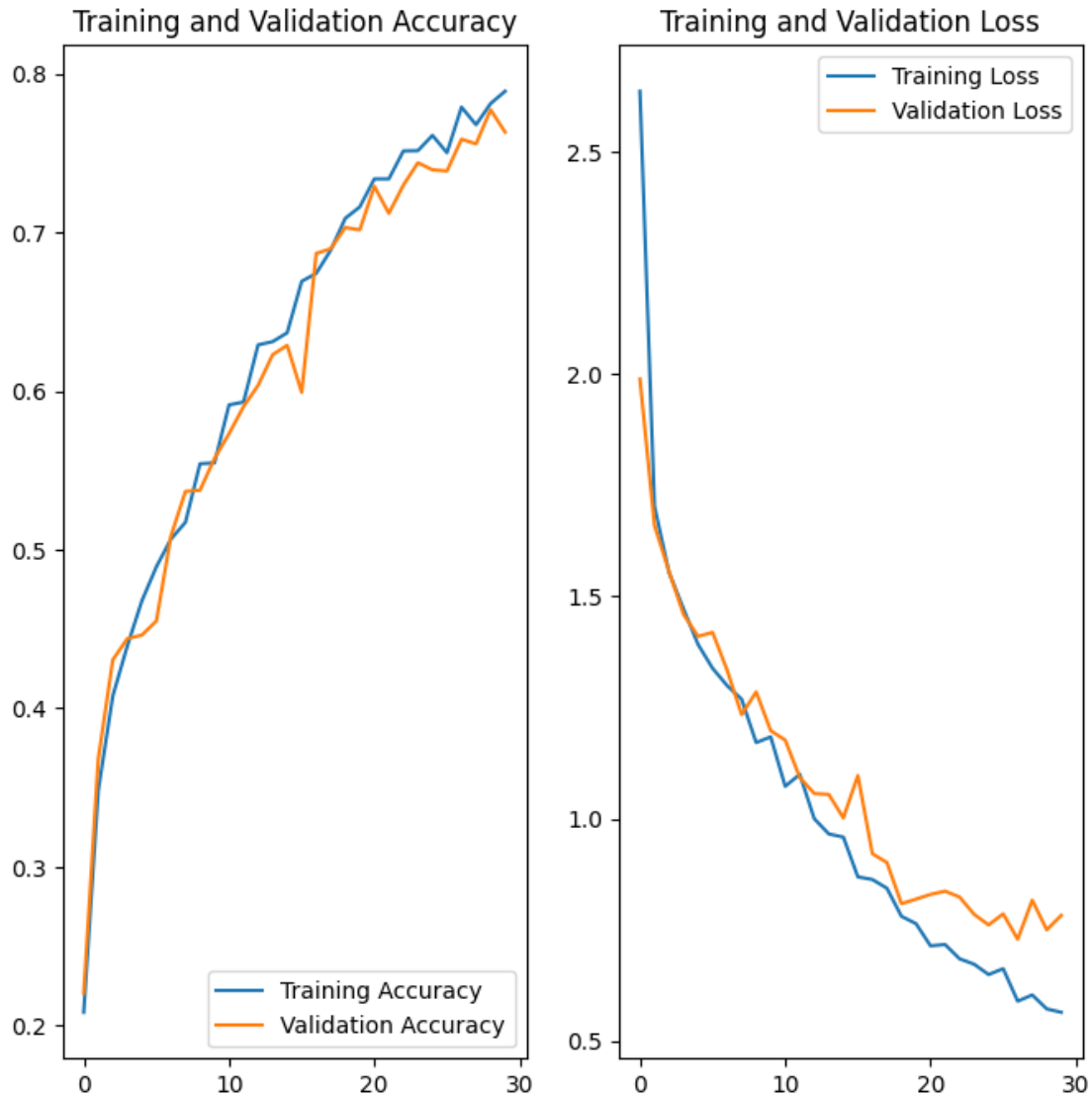
      loss = history.history['loss']
      val_loss = history.history['val_loss']

      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()

```



Analyze your results here. Did you get rid of underfitting/overfitting? Did class rebalance help?

0.2.2 Conclusion:–

We can infer from the above graph that

1. Both training accuracy as well as validation accuracy increases over time as training progresses with each epochs.
2. Both training loss as well as validation loss decreases over time as training progresses with each epochs.
3. Gap/difference between training accuracy and validation accuracy have decreased significantly

from previous model, and it has achieved accuracy in the range of 75%-80% on the validation set.

4. The difference in accuracy between training and validation is very less, around (~2%) which is good. As it indicates that model has learn the hidden facts and has not overfitted.

0.2.3 Class rebalancing not only helps us got rid of overfitting but it also helped in improving the validation accuracy from ~54%(aapprox.) to ~77%(aapprox.).