

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.

Importing Skin Cancer Data

Importing all the important libraries

```
In [7]: 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
```

```
In [ ]: !ls /content/gdrive
```

```
MyDrive
```

```
In [ ]: !rm -rf /content/gdrive/*
```

Mounting google drive to import data

```
In [9]: from google.colab import drive
drive.mount('/content/gdrive')
```

```
Mounted at /content/gdrive
```

This dataset consists 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.

Defining the path for train and test images

```
In [7]: data_dir_train = pathlib.Path('/content/gdrive/MyDrive/Skin cancer ISIC The Interna  
data_dir_test = pathlib.Path('/content/gdrive/MyDrive/Skin cancer ISIC The Internat
```

```
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

110

Dataset creation

Define parameters for the loader:

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

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

Train Dataset

```
In [10]: ## Used seed=123 while creating dataset using tf.keras.preprocessing.image_dataset_  
  
train_ds = tf.keras.preprocessing.image_dataset_from_directory(  
    data_dir_train,  
    labels='inferred',  
    label_mode='int',  
    image_size=(img_height, img_width),  
    interpolation='nearest',  
    batch_size=batch_size,  
    shuffle=True,  
    seed=123,  
    validation_split=0.2,  
    subset='training'  
)
```

Found 6739 files belonging to 9 classes.

Using 5392 files for training.

Validation Dataset

```
In [ ]: ## Used seed=123 while creating your dataset using tf.keras.preprocessing.image_dat  
  
val_ds = tf.keras.preprocessing.image_dataset_from_directory(  
    data_dir_train,  
    labels='inferred',  
    label_mode='int',  
    image_size=(img_height, img_width),  
    interpolation='nearest',  
    batch_size=batch_size,
```

```
shuffle=True,  
seed=123,  
validation_split=0.2,  
subset='validation'  
)
```

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

List of all the classes of skin cancer.

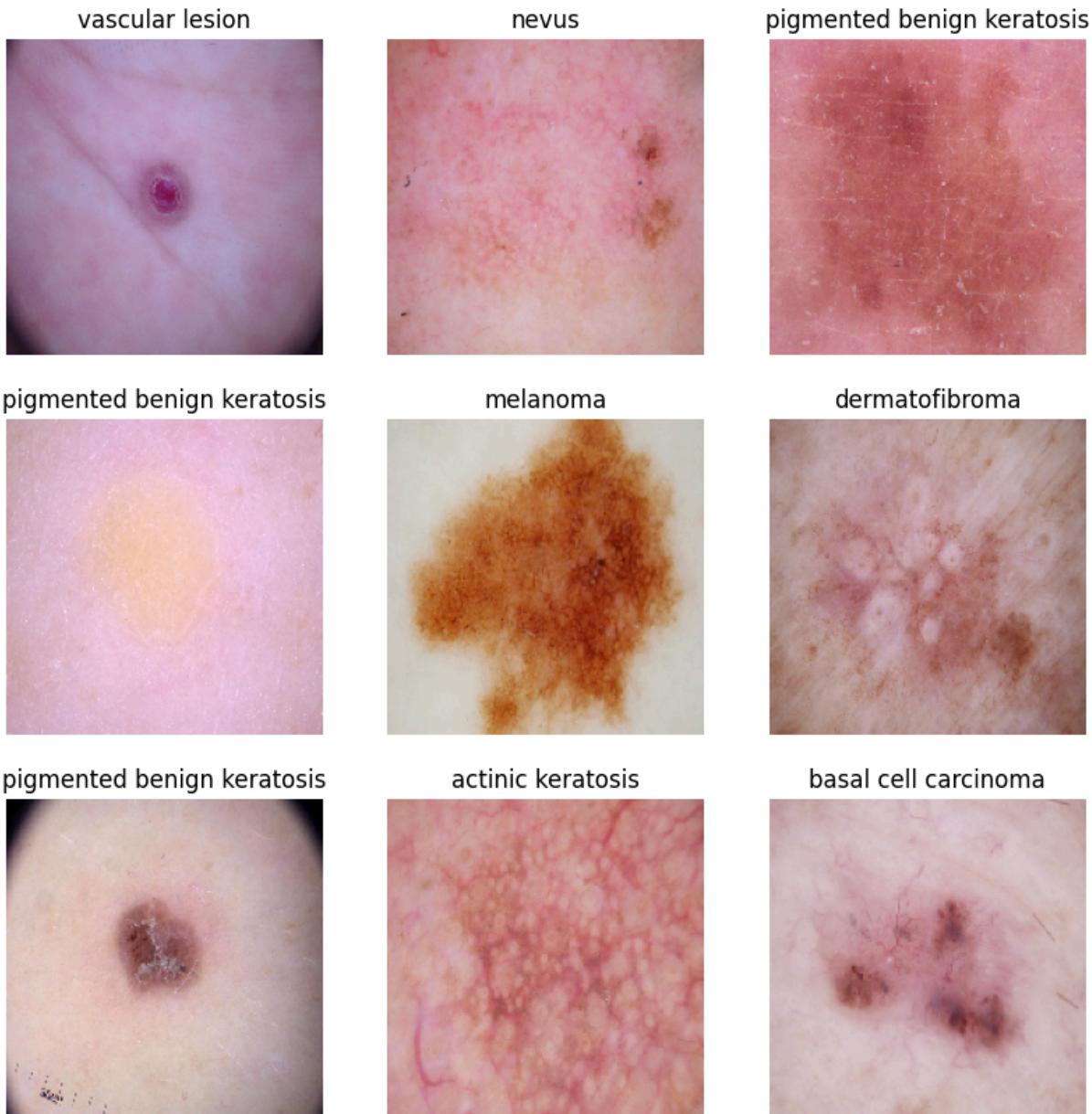
```
In [11]: class_names = train_ds.class_names  
print(class_names)
```

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

Visualization of data

Visualize one instance of all the nine classes present in the dataset

```
In [ ]: import matplotlib.pyplot as plt  
  
class_names = train_ds.class_names  
  
plt.figure(figsize=(10, 10))  
  
# Cache and prefetch the dataset  
train_ds = train_ds.cache().prefetch(buffer_size=tf.data.AUTOTUNE)  
  
for images, labels in train_ds.take(1):  
    for i in range(9):  
        ax = plt.subplot(3, 3, i + 1)  
        plt.imshow(images[i].numpy().astype("uint8"))  
        plt.title(class_names[labels[i]])  
        plt.axis("off")  
  
plt.show()
```



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.

```
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)
```

Creation of CNN model, which can accurately detect 9 classes present in the dataset.

```
In [ ]: !pip install tensorflow --upgrade
```

```
Requirement already satisfied: tensorflow in /usr/local/lib/python3.10/dist-packages  
(2.18.0)  
Requirement already satisfied: absl-py>=1.0.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (1.4.0)  
Requirement already satisfied: astunparse>=1.6.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (1.6.3)  
Requirement already satisfied: flatbuffers>=24.3.25 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (24.3.25)  
Requirement already satisfied: gast!=0.5.0,!0.5.1,!0.5.2,>=0.2.1 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (0.6.0)  
Requirement already satisfied: google-pasta>=0.1.1 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (0.2.0)  
Requirement already satisfied: libclang>=13.0.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (18.1.1)  
Requirement already satisfied: opt-einsum>=2.3.2 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (3.4.0)  
Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from tensorflow) (24.2)  
Requirement already satisfied: protobuf!=4.21.0,!4.21.1,!4.21.2,!4.21.3,!4.21.4,!4.21.5,<6.0.0dev,>=3.20.3 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (4.25.5)  
Requirement already satisfied: requests<3,>=2.21.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (2.32.3)  
Requirement already satisfied: setuptools in /usr/local/lib/python3.10/dist-packages (from tensorflow) (75.1.0)  
Requirement already satisfied: six>=1.12.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (1.17.0)  
Requirement already satisfied: termcolor>=1.1.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (2.5.0)  
Requirement already satisfied: typing-extensions>=3.6.6 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (4.12.2)  
Requirement already satisfied: wrapt>=1.11.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (1.17.0)  
Requirement already satisfied: grpcio<2.0,>=1.24.3 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (1.68.1)  
Requirement already satisfied: tensorboard<2.19,>=2.18 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (2.18.0)  
Requirement already satisfied: keras>=3.5.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (3.5.0)  
Requirement already satisfied: numpy<2.1.0,>=1.26.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (1.26.4)  
Requirement already satisfied: h5py>=3.11.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (3.12.1)  
Requirement already satisfied: ml-dtypes<0.5.0,>=0.4.0 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (0.4.1)  
Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in /usr/local/lib/python3.10/dist-packages (from tensorflow) (0.37.1)  
Requirement already satisfied: wheel<1.0,>=0.23.0 in /usr/local/lib/python3.10/dist-packages (from astunparse>=1.6.0->tensorflow) (0.45.1)  
Requirement already satisfied: rich in /usr/local/lib/python3.10/dist-packages (from keras>=3.5.0->tensorflow) (13.9.4)  
Requirement already satisfied: namex in /usr/local/lib/python3.10/dist-packages (from keras>=3.5.0->tensorflow) (0.0.8)  
Requirement already satisfied: optree in /usr/local/lib/python3.10/dist-packages (from keras>=3.5.0->tensorflow) (0.13.1)  
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.1
```

```
0/dist-packages (from requests<3,>=2.21.0->tensorflow) (3.4.0)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.21.0->tensorflow) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.21.0->tensorflow) (2.2.3)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests<3,>=2.21.0->tensorflow) (2024.8.30)
Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.10/dist-packages (from tensorboard<2.19,>=2.18->tensorflow) (3.7)
Requirement already satisfied: tensorflow-data-server<0.8.0,>=0.7.0 in /usr/local/lib/python3.10/dist-packages (from tensorboard<2.19,>=2.18->tensorflow) (0.7.2)
Requirement already satisfied: werkzeug>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from tensorboard<2.19,>=2.18->tensorflow) (3.1.3)
Requirement already satisfied: MarkupSafe>=2.1.1 in /usr/local/lib/python3.10/dist-packages (from werkzeug>=1.0.1->tensorboard<2.19,>=2.18->tensorflow) (3.0.2)
Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.10/dist-packages (from rich->keras>=3.5.0->tensorflow) (3.0.0)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /usr/local/lib/python3.10/dist-packages (from rich->keras>=3.5.0->tensorflow) (2.18.0)
Requirement already satisfied: mdurl~0.1 in /usr/local/lib/python3.10/dist-packages (from markdown-it-py>=2.2.0->rich->keras>=3.5.0->tensorflow) (0.1.2)
```

```
In [ ]: import tensorflow as tf
from tensorflow.keras import layers, models

# Define the CNN model with an Input Layer
model = models.Sequential([
    layers.Input(shape=(180, 180, 3)),
    layers.Rescaling(1./255), # Rescaling is now directly under Layers
    layers.Conv2D(32, (3, 3), activation='relu'),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(64, (3, 3), activation='relu'),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(128, (3, 3), activation='relu'),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(128, (3, 3), activation='relu'),
    layers.MaxPooling2D((2, 2)),
    layers.Flatten(),
    layers.Dense(512, activation='relu'),
    layers.Dense(9, activation='softmax') # Output Layer with 9 classes
])
```

Compile the model

```
In [ ]: # Compile the model
model.compile(optimizer='adam',
              loss='sparse_categorical_crossentropy',
              metrics=['accuracy'])
```

Model summary of all layers.

```
In [ ]: model.summary()
```

Model: "sequential_1"

Layer (type)	Output Shape
rescaling_1 (Rescaling)	(None, 180, 180, 3)
conv2d_4 (Conv2D)	(None, 178, 178, 32)
max_pooling2d_4 (MaxPooling2D)	(None, 89, 89, 32)
conv2d_5 (Conv2D)	(None, 87, 87, 64)
max_pooling2d_5 (MaxPooling2D)	(None, 43, 43, 64)
conv2d_6 (Conv2D)	(None, 41, 41, 128)
max_pooling2d_6 (MaxPooling2D)	(None, 20, 20, 128)
conv2d_7 (Conv2D)	(None, 18, 18, 128)
max_pooling2d_7 (MaxPooling2D)	(None, 9, 9, 128)
flatten_1 (Flatten)	(None, 10368)
dense_2 (Dense)	(None, 512)
dense_3 (Dense)	(None, 9)

Total params: 5,554,377 (21.19 MB)
Trainable params: 5,554,377 (21.19 MB)
Non-trainable params: 0 (0.00 B)

Train the model

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

```
Epoch 1/20
56/56 250s 922ms/step - accuracy: 0.2070 - loss: 2.0533 - val_accuracy: 0.4385 - val_loss: 1.7458
Epoch 2/20
56/56 15s 33ms/step - accuracy: 0.3836 - loss: 1.6835 - val_accuracy: 0.4430 - val_loss: 1.5379
Epoch 3/20
56/56 2s 31ms/step - accuracy: 0.4685 - loss: 1.5165 - val_accuracy: 0.4832 - val_loss: 1.5287
Epoch 4/20
56/56 3s 33ms/step - accuracy: 0.5056 - loss: 1.3835 - val_accuracy: 0.4609 - val_loss: 1.4638
Epoch 5/20
56/56 2s 33ms/step - accuracy: 0.4883 - loss: 1.4412 - val_accuracy: 0.4430 - val_loss: 1.5849
Epoch 6/20
56/56 2s 32ms/step - accuracy: 0.4921 - loss: 1.4028 - val_accuracy: 0.4631 - val_loss: 1.5339
Epoch 7/20
56/56 2s 31ms/step - accuracy: 0.4865 - loss: 1.3864 - val_accuracy: 0.4922 - val_loss: 1.5205
Epoch 8/20
56/56 3s 31ms/step - accuracy: 0.5572 - loss: 1.2532 - val_accuracy: 0.5347 - val_loss: 1.4152
Epoch 9/20
56/56 2s 32ms/step - accuracy: 0.5807 - loss: 1.1734 - val_accuracy: 0.5235 - val_loss: 1.4415
Epoch 10/20
56/56 2s 32ms/step - accuracy: 0.5904 - loss: 1.1709 - val_accuracy: 0.5011 - val_loss: 1.4540
Epoch 11/20
56/56 2s 33ms/step - accuracy: 0.6078 - loss: 1.0914 - val_accuracy: 0.5034 - val_loss: 1.3940
Epoch 12/20
56/56 2s 33ms/step - accuracy: 0.5968 - loss: 1.0942 - val_accuracy: 0.5145 - val_loss: 1.4995
Epoch 13/20
56/56 2s 31ms/step - accuracy: 0.6640 - loss: 0.9636 - val_accuracy: 0.5347 - val_loss: 1.4320
Epoch 14/20
56/56 2s 31ms/step - accuracy: 0.6675 - loss: 0.8841 - val_accuracy: 0.4810 - val_loss: 1.6438
Epoch 15/20
56/56 3s 32ms/step - accuracy: 0.7065 - loss: 0.8247 - val_accuracy: 0.5235 - val_loss: 1.9420
Epoch 16/20
56/56 2s 31ms/step - accuracy: 0.7246 - loss: 0.7434 - val_accuracy: 0.5056 - val_loss: 1.7786
Epoch 17/20
56/56 3s 32ms/step - accuracy: 0.7532 - loss: 0.6902 - val_accuracy: 0.5190 - val_loss: 1.8130
Epoch 18/20
56/56 2s 33ms/step - accuracy: 0.7521 - loss: 0.6626 - val_accuracy: 0.4787 - val_loss: 2.1471
Epoch 19/20
56/56 2s 32ms/step - accuracy: 0.8009 - loss: 0.5007 - val_accuracy:
```

```
racy: 0.4810 - val_loss: 2.2551
Epoch 20/20
56/56 ━━━━━━━━━━ 2s 31ms/step - accuracy: 0.8089 - loss: 0.5276 - val_accu
racy: 0.5257 - val_loss: 2.3106
```

Visualizing training 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()
```



From the above graph it is clear that Training accuracy is more than Validation accuracy, hence it is overfit.

Since model is overfit from above graph apply augmentation to the training dataset

```
In [ ]: import tensorflow as tf
from tensorflow.keras import layers, models
from tensorflow.keras.preprocessing.image import ImageDataGenerator

# Train the model and store history
epochs = 10
history = model.fit(
    train_ds,
```

```

        validation_data=val_ds,
        epochs=epochs
    )

# Plot training and validation accuracy
plt.plot(history.history['accuracy'], label='Training Accuracy')
plt.plot(history.history['val_accuracy'], label='Validation Accuracy')
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(loc='lower right')
plt.show()

# Plot training and validation loss
plt.plot(history.history['loss'], label='Training Loss')
plt.plot(history.history['val_loss'], label='Validation Loss')
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(loc='upper right')
plt.show()

# Data Augmentation
# Based on the analysis of the plots above, it's overfitting:

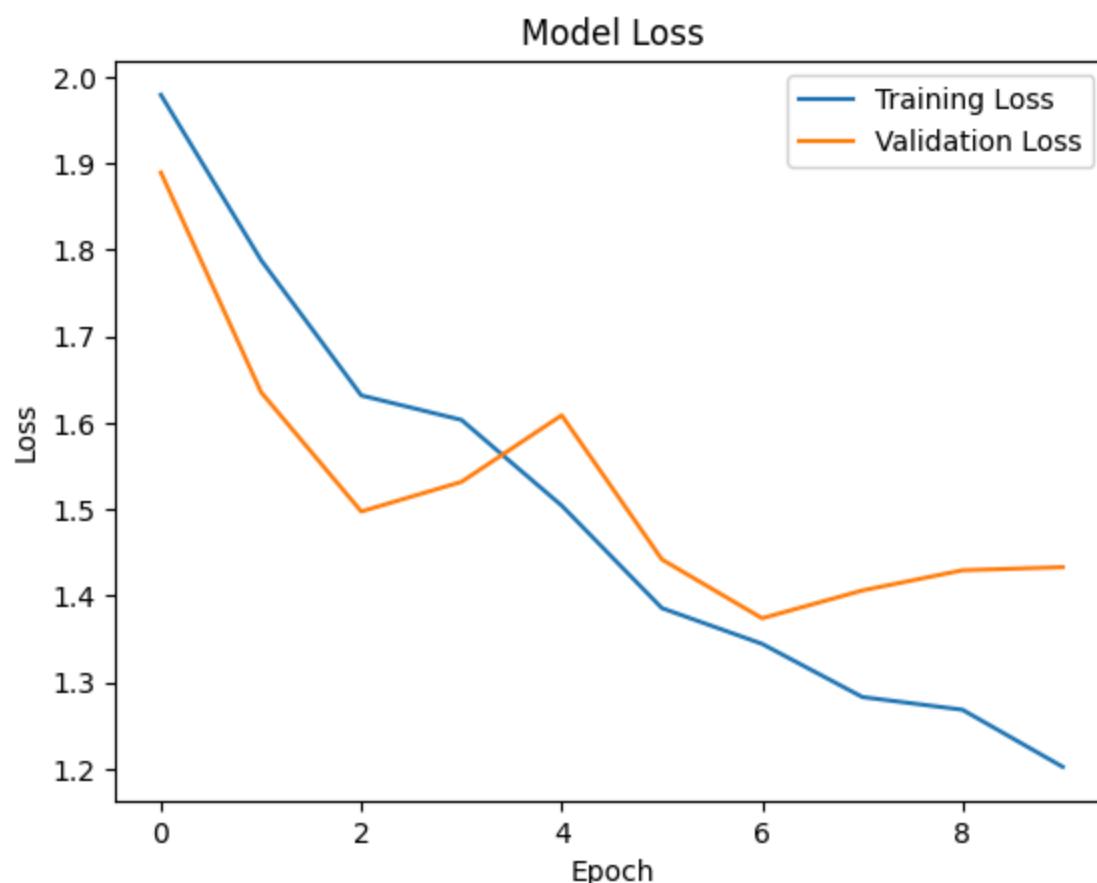
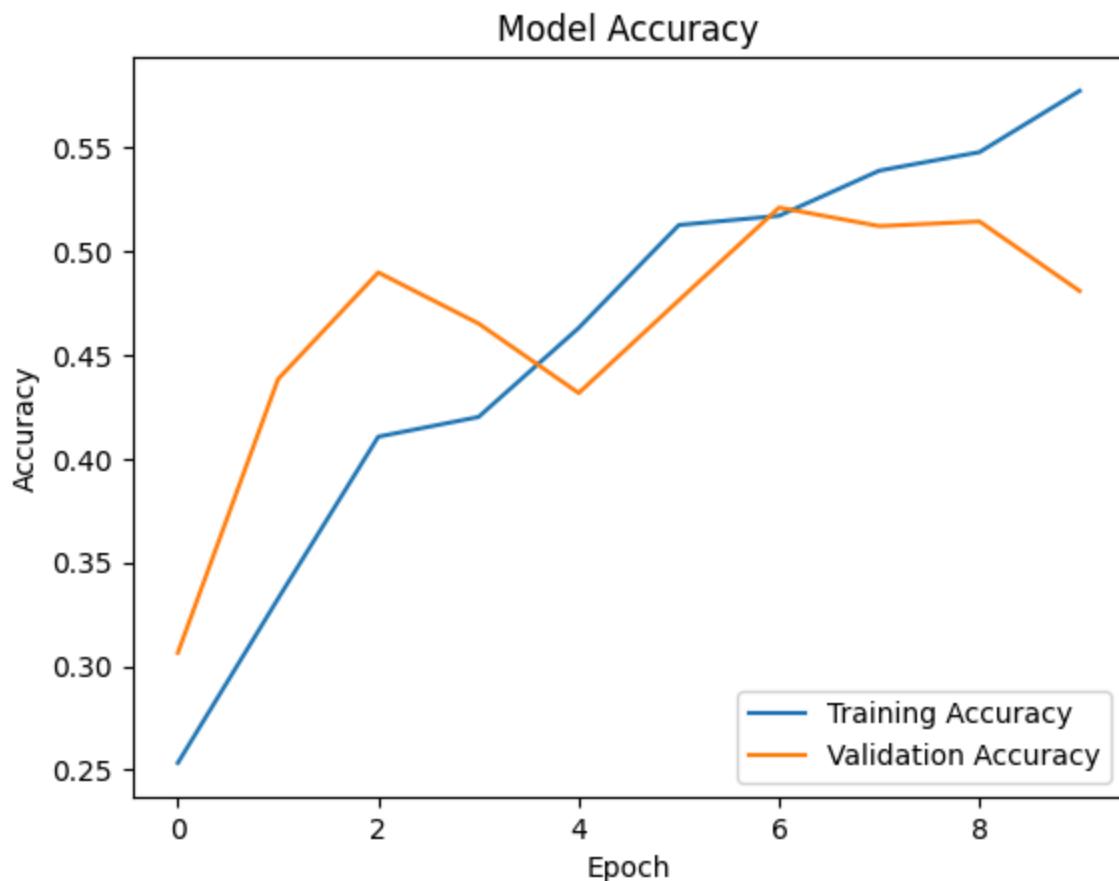
datagen = ImageDataGenerator(
    rotation_range=20,
    width_shift_range=0.2,
    height_shift_range=0.2,
    shear_range=0.2,
    zoom_range=0.2,
    horizontal_flip=True,
    fill_mode='nearest'
)

# Apply augmentation to the training dataset
train_ds_augmented = datagen.flow_from_directory(
    data_dir_train,
    target_size=(img_height, img_width),
    batch_size=batch_size,
    class_mode='sparse', # Use 'sparse' for integer labels
    subset='training', # Apply augmentation only to the training set
    seed=123
)

# Now use train_ds_augmented for training:
history_augmented = model.fit(
    train_ds_augmented,
    validation_data=val_ds, # Validation set remains the same
    epochs=epochs
)

```

```
Epoch 1/10
56/56 280s 2s/step - accuracy: 0.2078 - loss: 2.0748 - val_accuracy: 0.3065 - val_loss: 1.8893
Epoch 2/10
56/56 2s 32ms/step - accuracy: 0.3034 - loss: 1.8197 - val_accuracy: 0.4385 - val_loss: 1.6354
Epoch 3/10
56/56 2s 32ms/step - accuracy: 0.4067 - loss: 1.6319 - val_accuracy: 0.4899 - val_loss: 1.4975
Epoch 4/10
56/56 2s 31ms/step - accuracy: 0.4272 - loss: 1.5632 - val_accuracy: 0.4653 - val_loss: 1.5317
Epoch 5/10
56/56 3s 31ms/step - accuracy: 0.4528 - loss: 1.4975 - val_accuracy: 0.4318 - val_loss: 1.6087
Epoch 6/10
56/56 2s 31ms/step - accuracy: 0.5170 - loss: 1.3837 - val_accuracy: 0.4765 - val_loss: 1.4420
Epoch 7/10
56/56 2s 31ms/step - accuracy: 0.5368 - loss: 1.2955 - val_accuracy: 0.5213 - val_loss: 1.3740
Epoch 8/10
56/56 3s 31ms/step - accuracy: 0.5508 - loss: 1.2669 - val_accuracy: 0.5123 - val_loss: 1.4062
Epoch 9/10
56/56 3s 33ms/step - accuracy: 0.5491 - loss: 1.2848 - val_accuracy: 0.5145 - val_loss: 1.4295
Epoch 10/10
56/56 2s 33ms/step - accuracy: 0.5736 - loss: 1.1803 - val_accuracy: 0.4810 - val_loss: 1.4331
```



Found 2239 images belonging to 9 classes.
Epoch 1/10

```

/usr/local/lib/python3.10/dist-packages/keras/src/trainers/data_adapters/py_dataset_
adapter.py:122: UserWarning: Your `PyDataset` class should call `super().__init__(**_
kwargs)` in its constructor. `**kwargs` can include `workers`, `use_multiprocessing`_
, `max_queue_size`. Do not pass these arguments to `fit()`, as they will be ignore
d.
    self._warn_if_super_not_called()
70/70 ━━━━━━━━━━ 48s 599ms/step - accuracy: 0.4658 - loss: 1.4698 - val_ac
curacy: 0.5414 - val_loss: 1.3126
Epoch 2/10
70/70 ━━━━━━━━━━ 77s 540ms/step - accuracy: 0.5122 - loss: 1.3336 - val_ac
curacy: 0.5257 - val_loss: 1.3203
Epoch 3/10
70/70 ━━━━━━━━━━ 82s 546ms/step - accuracy: 0.5238 - loss: 1.3306 - val_ac
curacy: 0.5526 - val_loss: 1.2751
Epoch 4/10
70/70 ━━━━━━━━━━ 82s 550ms/step - accuracy: 0.5228 - loss: 1.3279 - val_ac
curacy: 0.5593 - val_loss: 1.2865
Epoch 5/10
70/70 ━━━━━━━━━━ 82s 551ms/step - accuracy: 0.5219 - loss: 1.3108 - val_ac
curacy: 0.5593 - val_loss: 1.2278
Epoch 6/10
70/70 ━━━━━━━━━━ 82s 528ms/step - accuracy: 0.5222 - loss: 1.2955 - val_ac
curacy: 0.5414 - val_loss: 1.2640
Epoch 7/10
70/70 ━━━━━━━━━━ 43s 535ms/step - accuracy: 0.5420 - loss: 1.2374 - val_ac
curacy: 0.5414 - val_loss: 1.2850
Epoch 8/10
70/70 ━━━━━━━━━━ 81s 546ms/step - accuracy: 0.5263 - loss: 1.2910 - val_ac
curacy: 0.5347 - val_loss: 1.3192
Epoch 9/10
70/70 ━━━━━━━━━━ 45s 586ms/step - accuracy: 0.5554 - loss: 1.2549 - val_ac
curacy: 0.5817 - val_loss: 1.1862
Epoch 10/10
70/70 ━━━━━━━━━━ 80s 557ms/step - accuracy: 0.5557 - loss: 1.2333 - val_ac
curacy: 0.5794 - val_loss: 1.1476

```

From the above data it is clear that Model accuracy is near 50%, hence under fit.

Visualization of augmentation strategy works for one instance of training image.

```

In [ ]: import matplotlib.pyplot as plt
import numpy as np
from tensorflow.keras.preprocessing.image import ImageDataGenerator

# Create an ImageDataGenerator with augmentation settings
datagen = ImageDataGenerator(
    rotation_range=20,
    width_shift_range=0.2,
    height_shift_range=0.2,
    shear_range=0.2,
    zoom_range=0.2,
    horizontal_flip=True,

```

```

        fill_mode='nearest'
    )

# Load a single image from the training dataset

img_path = '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging
img = tf.keras.preprocessing.image.load_img(img_path, target_size=(img_height, img_
img_array = tf.keras.preprocessing.image.img_to_array(img)
img_array = img_array.reshape((1,) + img_array.shape) # Reshape to (1, img_height,

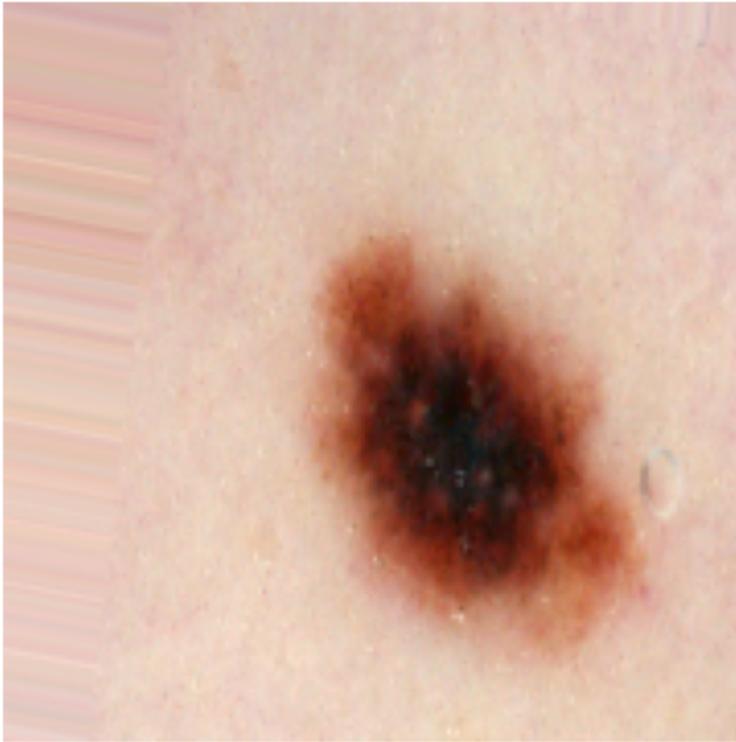
# Generate augmented images
i = 0
for batch in datagen.flow(img_array, batch_size=1):
    plt.figure(i)
    plt.imshow(tf.keras.preprocessing.image.array_to_img(batch[0]))
    plt.title("Augmented Image {}".format(i + 1))
    plt.axis('off') # Turn off axis labels

    i += 1
    if i > 4: # Generate 5 augmented images
        break

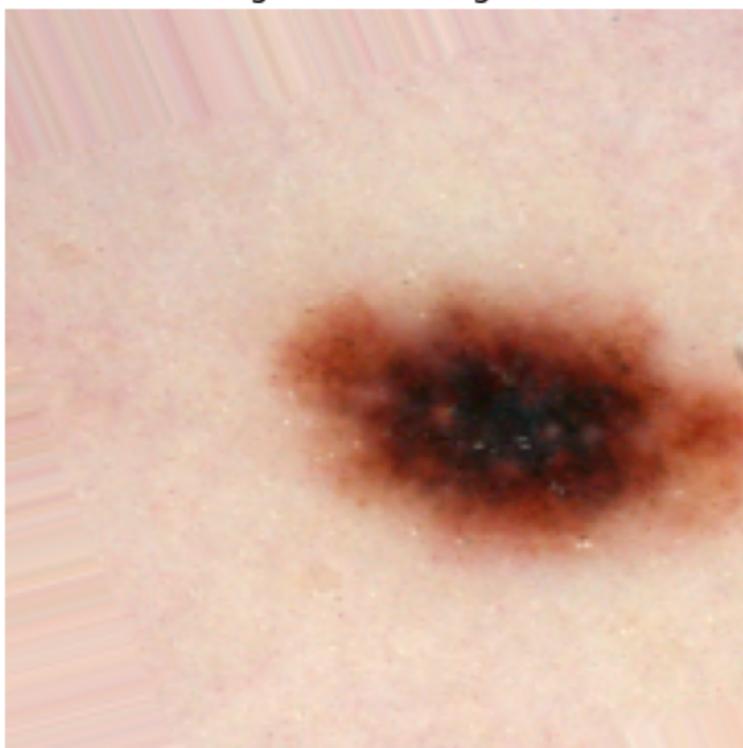
plt.show()

```

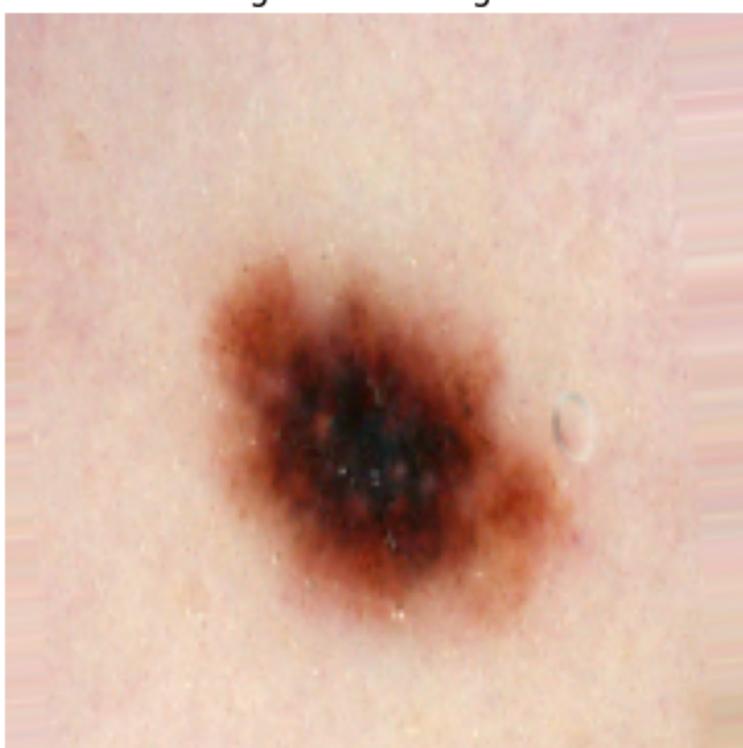
Augmented Image 1



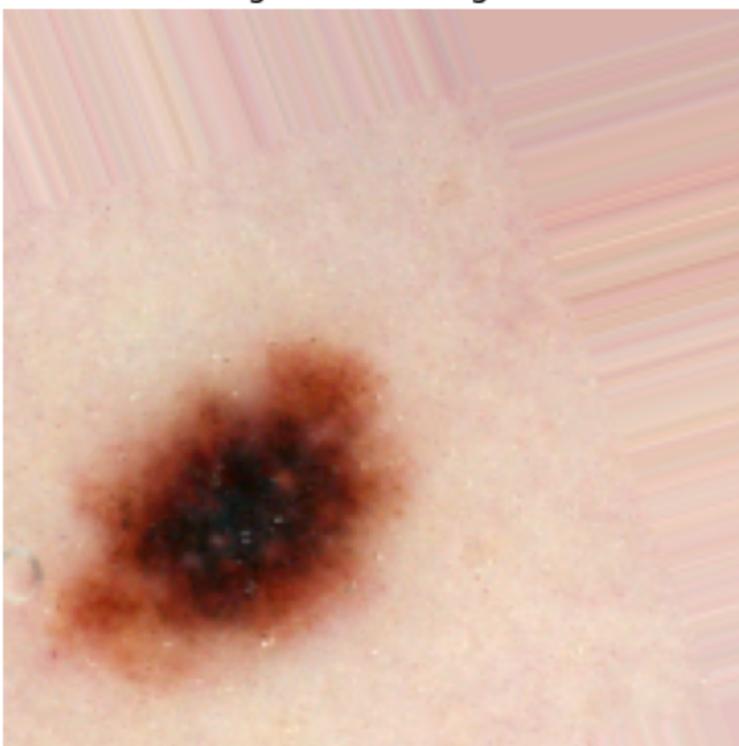
Augmented Image 2



Augmented Image 3



Augmented Image 4



Augmented Image 5



Creation of model with dropout layer, compile and train the model

```
In [ ]: import tensorflow as tf
from tensorflow.keras import layers, models

# Define the CNN model with an Input layer and Dropout
model = models.Sequential([
    layers.Input(shape=(180, 180, 3)),
    layers.Rescaling(1./255),
    layers.Conv2D(32, (3, 3), activation='relu'),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(64, (3, 3), activation='relu'),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(128, (3, 3), activation='relu'),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(128, (3, 3), activation='relu'),
    layers.MaxPooling2D((2, 2)),
    layers.Flatten(),
    layers.Dense(512, activation='relu'),
    layers.Dropout(0.5), # Dropout layer added after Dense(512)
    layers.Dense(9, activation='softmax') # Output layer with 9 classes
])

# Compile the model
model.compile(optimizer='adam',
              loss='sparse_categorical_crossentropy',
              metrics=['accuracy'])

# Print the model summary
model.summary()
```

Model: "sequential_1"

Layer (type)	Output Shape
rescaling_1 (Rescaling)	(None, 180, 180, 3)
conv2d_4 (Conv2D)	(None, 178, 178, 32)
max_pooling2d_4 (MaxPooling2D)	(None, 89, 89, 32)
conv2d_5 (Conv2D)	(None, 87, 87, 64)
max_pooling2d_5 (MaxPooling2D)	(None, 43, 43, 64)
conv2d_6 (Conv2D)	(None, 41, 41, 128)
max_pooling2d_6 (MaxPooling2D)	(None, 20, 20, 128)
conv2d_7 (Conv2D)	(None, 18, 18, 128)
max_pooling2d_7 (MaxPooling2D)	(None, 9, 9, 128)
flatten_1 (Flatten)	(None, 10368)
dense_2 (Dense)	(None, 512)
dropout (Dropout)	(None, 512)
dense_3 (Dense)	(None, 9)



Total params: 5,554,377 (21.19 MB)

Trainable params: 5,554,377 (21.19 MB)

Non-trainable params: 0 (0.00 B)

Training the model

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

```
Epoch 1/20
56/56 6s 45ms/step - accuracy: 0.2082 - loss: 2.0740 - val_accuracy: 0.3087 - val_loss: 1.8134
Epoch 2/20
56/56 2s 32ms/step - accuracy: 0.3616 - loss: 1.7495 - val_accuracy: 0.4787 - val_loss: 1.6163
Epoch 3/20
56/56 3s 31ms/step - accuracy: 0.4441 - loss: 1.5915 - val_accuracy: 0.4497 - val_loss: 1.5016
Epoch 4/20
56/56 3s 33ms/step - accuracy: 0.4956 - loss: 1.4476 - val_accuracy: 0.4899 - val_loss: 1.4350
Epoch 5/20
56/56 2s 31ms/step - accuracy: 0.5022 - loss: 1.4240 - val_accuracy: 0.5123 - val_loss: 1.3971
Epoch 6/20
56/56 3s 32ms/step - accuracy: 0.5178 - loss: 1.3935 - val_accuracy: 0.5213 - val_loss: 1.3737
Epoch 7/20
56/56 3s 31ms/step - accuracy: 0.5047 - loss: 1.3948 - val_accuracy: 0.4944 - val_loss: 1.4355
Epoch 8/20
56/56 2s 31ms/step - accuracy: 0.5499 - loss: 1.3042 - val_accuracy: 0.5302 - val_loss: 1.3662
Epoch 9/20
56/56 2s 32ms/step - accuracy: 0.5429 - loss: 1.2696 - val_accuracy: 0.5101 - val_loss: 1.3562
Epoch 10/20
56/56 2s 32ms/step - accuracy: 0.5512 - loss: 1.2385 - val_accuracy: 0.5459 - val_loss: 1.3441
Epoch 11/20
56/56 2s 32ms/step - accuracy: 0.5740 - loss: 1.1863 - val_accuracy: 0.5324 - val_loss: 1.3167
Epoch 12/20
56/56 2s 31ms/step - accuracy: 0.5678 - loss: 1.1740 - val_accuracy: 0.5168 - val_loss: 1.3832
Epoch 13/20
56/56 3s 31ms/step - accuracy: 0.5789 - loss: 1.1642 - val_accuracy: 0.5570 - val_loss: 1.3025
Epoch 14/20
56/56 2s 31ms/step - accuracy: 0.6122 - loss: 1.0803 - val_accuracy: 0.5548 - val_loss: 1.4445
Epoch 15/20
56/56 3s 33ms/step - accuracy: 0.6243 - loss: 1.0277 - val_accuracy: 0.5123 - val_loss: 1.4777
Epoch 16/20
56/56 2s 32ms/step - accuracy: 0.6505 - loss: 0.9716 - val_accuracy: 0.5660 - val_loss: 1.3380
Epoch 17/20
56/56 2s 31ms/step - accuracy: 0.6777 - loss: 0.9212 - val_accuracy: 0.5078 - val_loss: 1.5817
Epoch 18/20
56/56 3s 31ms/step - accuracy: 0.6942 - loss: 0.8739 - val_accuracy: 0.5369 - val_loss: 1.5494
Epoch 19/20
56/56 2s 32ms/step - accuracy: 0.7057 - loss: 0.8204 - val_accuracy: 0.5500 - val_loss: 1.5000
```

```
accuracy: 0.5347 - val_loss: 1.5237
Epoch 20/20
56/56 ━━━━━━━━━━ 2s 32ms/step - accuracy: 0.7229 - loss: 0.7328 - val_accuracy: 0.5436 - val_loss: 1.6120
```

Visualizing the results

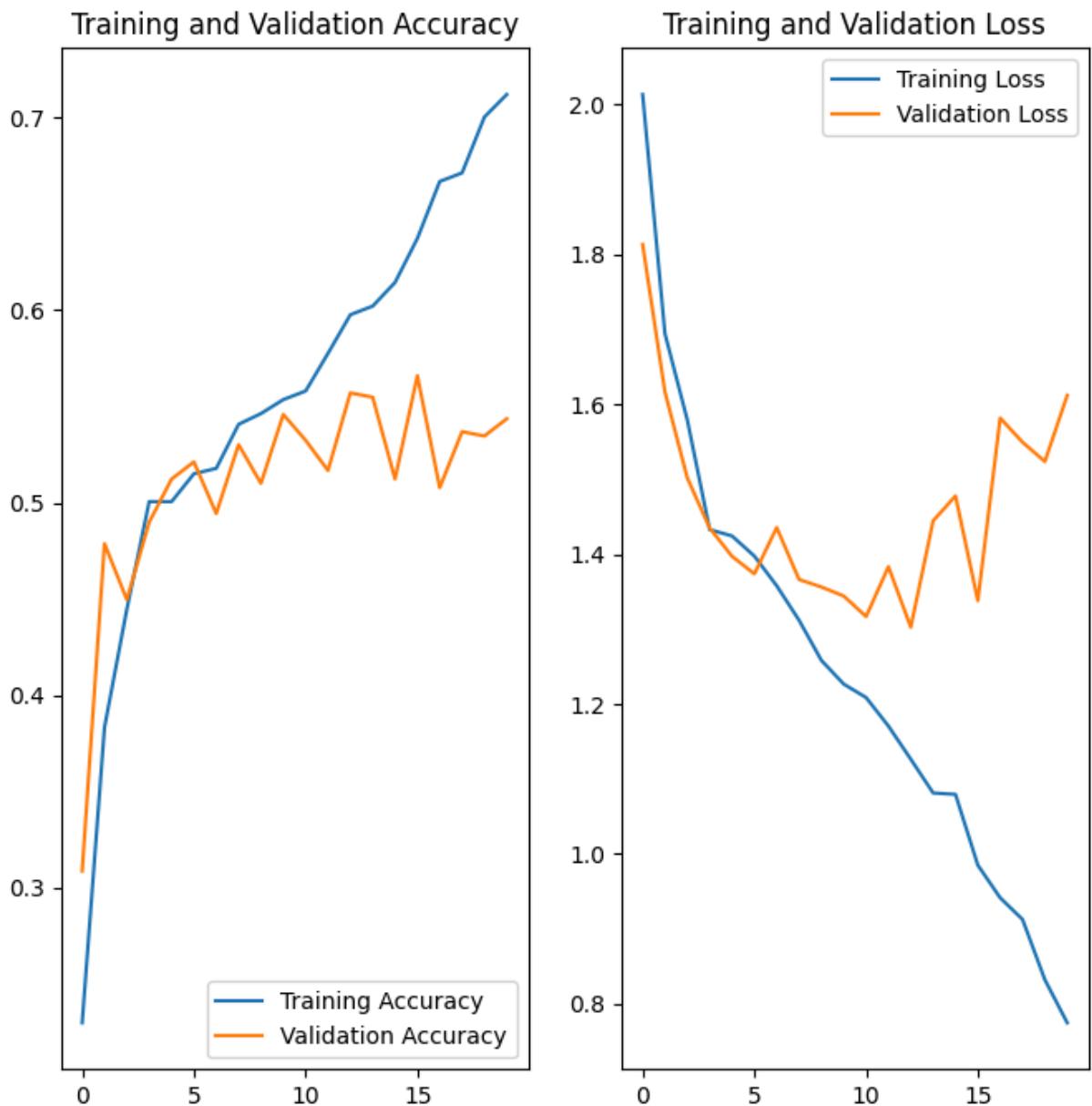
```
In [ ]: acc = history.history['accuracy']
val_acc = history.history['val_accuracy']

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()
```



Findings:

"After introducing a Dropout layer to mitigate overfitting, the model was trained for 20 epochs. The training accuracy reached 0.72, while the validation accuracy reached 0.54. Despite the use of Dropout, there is still a notable gap between the training and validation accuracies, indicating that the model might still be overfitting to the training data to some extent. Further investigation and potential adjustments are needed to improve the model's generalization ability and reduce the overfitting."

```
In [ ]: import tensorflow as tf
from tensorflow.keras import layers, models, regularizers
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.callbacks import EarlyStopping

# Data Augmentation
```

```

datagen = ImageDataGenerator(
    rotation_range=20,
    width_shift_range=0.2,
    height_shift_range=0.2,
    shear_range=0.2,
    zoom_range=0.2,
    horizontal_flip=True,
    fill_mode='nearest'
)

# Apply augmentation to the training dataset
train_ds_augmented = datagen.flow_from_directory(
    data_dir_train,
    target_size=(img_height, img_width),
    batch_size=batch_size,
    class_mode='sparse', # Use 'sparse' for integer labels
    subset='training', # Apply augmentation only to the training set
    seed=123
)

# Model Definition with Recommendations
model = models.Sequential([
    layers.Input(shape=(180, 180, 3)),
    layers.Rescaling(1./255),
    layers.Conv2D(32, (3, 3), activation='relu', kernel_regularizer=regularizers.l2),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(64, (3, 3), activation='relu', kernel_regularizer=regularizers.l2),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(128, (3, 3), activation='relu', kernel_regularizer=regularizers.l1),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(128, (3, 3), activation='relu', kernel_regularizer=regularizers.l1),
    layers.MaxPooling2D((2, 2)),
    layers.Flatten(),
    layers.Dense(512, activation='relu', kernel_regularizer=regularizers.l2(0.01)),
    layers.Dropout(0.5),
    layers.Dense(9, activation='softmax')
])

# Compile the model
model.compile(optimizer='adam',
              loss='sparse_categorical_crossentropy',
              metrics=['accuracy'])

# Early Stopping
early_stopping = EarlyStopping(monitor='val_loss', patience=5, restore_best_weights=True)

# Train the model
epochs = 20
history = model.fit(
    train_ds_augmented, # Using augmented training data
    validation_data=val_ds,
    epochs=epochs,
)

```

```
    callbacks=[early_stopping] # Add early stopping
)
```

Found 2239 images belonging to 9 classes.

Epoch 1/20

70/70 ━━━━━━━━ 51s 599ms/step - accuracy: 0.1993 - loss: 6.8762 - val_accuracy: 0.2394 - val_loss: 2.3924

Epoch 2/20

70/70 ━━━━━━━━ 75s 540ms/step - accuracy: 0.2555 - loss: 2.2540 - val_accuracy: 0.3781 - val_loss: 1.9284

Epoch 3/20

70/70 ━━━━━━━━ 82s 550ms/step - accuracy: 0.3351 - loss: 2.0148 - val_accuracy: 0.4049 - val_loss: 1.8128

Epoch 4/20

70/70 ━━━━━━━━ 43s 560ms/step - accuracy: 0.3739 - loss: 1.8263 - val_accuracy: 0.4072 - val_loss: 1.8561

Epoch 5/20

70/70 ━━━━━━━━ 81s 551ms/step - accuracy: 0.3528 - loss: 1.8734 - val_accuracy: 0.3557 - val_loss: 1.8383

Epoch 6/20

70/70 ━━━━━━━━ 43s 558ms/step - accuracy: 0.3752 - loss: 1.7827 - val_accuracy: 0.4318 - val_loss: 1.7164

Epoch 7/20

70/70 ━━━━━━━━ 82s 549ms/step - accuracy: 0.3794 - loss: 1.7985 - val_accuracy: 0.4273 - val_loss: 1.7039

Epoch 8/20

70/70 ━━━━━━━━ 43s 545ms/step - accuracy: 0.3844 - loss: 1.7576 - val_accuracy: 0.4273 - val_loss: 1.6658

Epoch 9/20

70/70 ━━━━━━━━ 42s 533ms/step - accuracy: 0.3952 - loss: 1.7176 - val_accuracy: 0.3893 - val_loss: 1.7849

Epoch 10/20

70/70 ━━━━━━━━ 82s 538ms/step - accuracy: 0.3939 - loss: 1.7224 - val_accuracy: 0.4362 - val_loss: 1.6659

Epoch 11/20

70/70 ━━━━━━━━ 42s 541ms/step - accuracy: 0.3870 - loss: 1.6895 - val_accuracy: 0.3915 - val_loss: 1.7612

Epoch 12/20

70/70 ━━━━━━━━ 82s 556ms/step - accuracy: 0.3872 - loss: 1.7031 - val_accuracy: 0.4407 - val_loss: 1.6414

Epoch 13/20

70/70 ━━━━━━━━ 42s 554ms/step - accuracy: 0.4149 - loss: 1.6866 - val_accuracy: 0.3937 - val_loss: 1.7021

Epoch 14/20

70/70 ━━━━━━━━ 81s 535ms/step - accuracy: 0.3936 - loss: 1.7300 - val_accuracy: 0.4228 - val_loss: 1.6735

Epoch 15/20

70/70 ━━━━━━━━ 43s 542ms/step - accuracy: 0.3953 - loss: 1.7124 - val_accuracy: 0.4206 - val_loss: 1.6203

Epoch 16/20

70/70 ━━━━━━━━ 81s 539ms/step - accuracy: 0.3982 - loss: 1.6986 - val_accuracy: 0.4251 - val_loss: 1.6214

Epoch 17/20

70/70 ━━━━━━━━ 41s 532ms/step - accuracy: 0.3861 - loss: 1.7013 - val_accuracy: 0.3937 - val_loss: 1.7821

Epoch 18/20

70/70 ━━━━━━━━ 43s 551ms/step - accuracy: 0.3842 - loss: 1.7216 - val_accuracy: 0.4251 - val_loss: 1.6462

Epoch 19/20

```
70/70 ━━━━━━━━━━ 82s 553ms/step - accuracy: 0.4234 - loss: 1.6412 - val_accuracy: 0.4340 - val_loss: 1.6359
Epoch 20/20
70/70 ━━━━━━━━━━ 82s 555ms/step - accuracy: 0.4166 - loss: 1.6648 - val_accuracy: 0.4072 - val_loss: 1.6335
```

Findings:

"After implementing data augmentation, L2 regularization, Dropout, and early stopping, the model was trained. The final training accuracy reached 0.4166, while the validation accuracy reached 0.4072. These results suggest that the model is still struggling to effectively learn the underlying patterns in the data, indicating potential issues with underfitting."

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.

```
In [ ]: import numpy as np
import pandas as pd

# Get the class labels for the training dataset
train_labels = []
for images, labels in train_ds:
    train_labels.extend(labels.numpy())

# Count the occurrences of each class
class_counts = np.bincount(train_labels)

# Create a Pandas DataFrame for better visualization
class_distribution = pd.DataFrame({'Class': train_ds.class_names, 'Count': class_co

# Display the class distribution
print(class_distribution)

# Plot the distribution using a bar chart
import matplotlib.pyplot as plt
plt.figure(figsize=(10, 5))
plt.bar(class_distribution['Class'], class_distribution['Count'])
plt.title('Class Distribution in Training Dataset')
plt.xlabel('Class')
plt.ylabel('Count')
plt.xticks(rotation=45, ha='right')
plt.show()
```

	Class	Count
0	actinic keratosis	92
1	basal cell carcinoma	309
2	dermatofibroma	77
3	melanoma	352
4	nevus	277
5	pigmented benign keratosis	370
6	seborrheic keratosis	58
7	squamous cell carcinoma	142
8	vascular lesion	115



- Seborrheic keratosis class has the least number of samples = 58
- Pigmented benign keratosis class dominate the data in terms proportionate number of samples = 370

Rectification of class imbalance by using python package Augmentor:

Add more samples across all classes so that none of the classes have very few samples.

Installation of Augmentor.

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

```
Collecting Augmentor
  Downloading Augmentor-0.2.12-py2.py3-none-any.whl.metadata (1.3 kB)
Requirement already satisfied: Pillow>=5.2.0 in /usr/local/lib/python3.10/dist-packages (from Augmentor) (11.0.0)
Requirement already satisfied: tqdm>=4.9.0 in /usr/local/lib/python3.10/dist-packages (from Augmentor) (4.66.6)
Requirement already satisfied: numpy>=1.11.0 in /usr/local/lib/python3.10/dist-packages (from Augmentor) (1.26.4)
  Downloading Augmentor-0.2.12-py2.py3-none-any.whl (38 kB)
Installing collected packages: Augmentor
Successfully installed Augmentor-0.2.12
```

Instantiate a Pipeline object

```
In [ ]: import os
import random
import numpy as np
from PIL import Image

class Pipeline:
    def __init__(self, data_dir):
        self.data_dir = data_dir
        self.image_paths = self._get_image_paths()

    def _get_image_paths(self):
        image_paths = []
        for root, _, files in os.walk(self.data_dir):
            for file in files:
                if file.lower().endswith(('.png', '.jpg', '.jpeg')):
                    image_paths.append(os.path.join(root, file))
        return image_paths

    def resize(self, img, size=(180, 180)):
        return img.resize(size)

    def random_rotate(self, img, angle_range=(-20, 20)):
        angle = random.randint(angle_range[0], angle_range[1])
        return img.rotate(angle)

    def random_horizontal_flip(self, img):
        if random.random() < 0.5:
            return img.transpose(Image.FLIP_LEFT_RIGHT)
        return img

    def sample(self, num_samples=5):
        sampled_paths = random.sample(self.image_paths, num_samples)
        for path in sampled_paths:
            img = Image.open(path)
            img = self.resize(img)
            img = self.random_rotate(img)
            img = self.random_horizontal_flip(img)
            # Display or save the processed image
            img.show() # Or img.save('path/to/save.jpg')

# Instantiate the Pipeline object
```

```
pipeline = Pipeline(data_dir_train)

# Execute the operations
pipeline.sample(num_samples=5)
```

```
In [ ]: path_to_training_dataset=data_dir_train
import Augmentor
for i in class_names:
    # Convert PosixPath to string and then join with class name using os.path.join
    p = Augmentor.Pipeline(os.path.join(str(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
```

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 0x7C354475CEE0>: 100%|██████████| 500/500 [00:19<00:00, 25.22 Samples/s]
```

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 0x7C354489EEF0>: 100%|██████████| 500/500 [00:19<00:00, 25.32 Samples/s]
```

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 0x7C3540357040>: 100%|██████████| 500/500 [00:20<00:00, 24.28 Samples/s]
```

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.JpegImagePlugin.JpegImageFile image mode=RGB size=1024x768 at 0x7C35403AE380>: 100%|██████████| 500/500 [01:29<00:00, 5.57 Samples/s]
```

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.JpegImagePlugin.JpegImageFile image mode=RGB size=2048x1536 at 0x7C3540325C90>: 100%|██████████| 500/500 [01:19<00:00, 6.29 Samples/s]
```

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 0x7C354487BF40>: 100%|██████████| 500/500 [00:20<00:00, 24.00 Samples/s]
```

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 0x7C35403546A0>: 100%|██████████| 500/500 [00:41<00:00, 12.01 Samples/s]
```

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 0x7C35CB1D17B0>: 100%|██████████| 500/500 [00:19<00:00, 25.19 Samples/s]
```

```
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 0x7C355D397DF0>: 100%|██████████| 500/500 [00:22<00:00, 22.31 Samples/s]
```

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

```
4500
```

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

```
In [ ]: import glob # Import the glob module  
import os  
  
path_list = [x for x in glob.glob(os.path.join(str(data_dir_train), '*', 'output',  
path_list
```

```
Out[ ]: ['/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/pigmented benign keratosis/output/pigmented benign keratosis_original_ISIC_0025874.jpg_5522a6f5-b015-42b5-a98d-01c2fa7b1557.jpg',
 '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/pigmented benign keratosis/output/pigmented benign keratosis_original_ISIC_0028449.jpg_968a22c0-0e34-47c3-96f1-c4cf0a2b6ee2.jpg',
 '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/pigmented benign keratosis/output/pigmented benign keratosis_original_ISIC_0027811.jpg_7b51f895-291e-4053-8ce1-e144f56bf6e5.jpg',
 '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/pigmented benign keratosis/output/pigmented benign keratosis_original_ISIC_0028124.jpg_726773ff-9bf1-4fa5-987d-060cf69f0330.jpg',
 '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/pigmented benign keratosis/output/pigmented benign keratosis_original_ISIC_0025345.jpg_85111e46-cbf6-4bf6-90bc-d53debb9ad48.jpg',
 '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/pigmented benign keratosis/output/pigmented benign keratosis_original_ISIC_0025654.jpg_41d20664-93c4-4957-8b1f-a195d00fb58d.jpg',
 '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/pigmented benign keratosis/output/pigmented benign keratosis_original_ISIC_0025515.jpg_fd5f1d8d-87ea-48ca-b5d9-8b6c1035ea4e.jpg',
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'/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/actinic keratosis/output/actinic_keratosis_original_ISIC_0030143.jpg_d3d7bc44-d1d3-4cfe-8ee2-9a998d0d2a1f.jpg',
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 '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collaboration/Train/actinic keratosis/output/actinic_keratosis_original_ISIC_0030730.jpg_314d8b2d-08d9-444e-be74-1e36d1321b85.jpg',
 '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora

```
ation/Train/actinic keratosis/output/actinic keratosis_original_ISIC_0027452.jpg_2  
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    '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora  
tion/Train/actinic keratosis/output/actinic keratosis_original_ISIC_0029210.jpg_4  
2566609-5981-4822-8732-cb2475947217.jpg',  
    '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora  
tion/Train/actinic keratosis/output/actinic keratosis_original_ISIC_0026857.jpg_1  
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    '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora  
tion/Train/actinic keratosis/output/actinic keratosis_original_ISIC_0030242.jpg_e  
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6e0385e-2764-429f-b114-029a6fa29018.jpg',  
    '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora  
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    '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora  
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tion/Train/actinic keratosis/output/actinic keratosis_original_ISIC_0027562.jpg_6  
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    '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora  
tion/Train/actinic keratosis/output/actinic keratosis_original_ISIC_0026575.jpg_3  
2c2b913-d19e-418f-8b27-8980322d2ae6.jpg',  
    '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora  
tion/Train/actinic keratosis/output/actinic keratosis_original_ISIC_0030877.jpg_5  
19c8307-e67e-4793-bd12-08a37d3a4c33.jpg',  
    '/content/gdrive/MyDrive/Skin cancer ISIC The International Skin Imaging Collabora  
tion/Train/actinic keratosis/output/actinic keratosis_original_ISIC_0029659.jpg_2  
cbc9be0-fa66-425f-a1eb-7f2a1f040f5a.jpg',  
    ...]
```

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



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

```
In [ ]: import os  
import pandas as pd  
import glob
```

```

# Get a list of all image files in subdirectories
image_paths = glob.glob(os.path.join(str(data_dir_train), '*', '*.jpg'))

# Extract Labels from the directory structure
labels = [os.path.basename(os.path.dirname(path)) for path in image_paths]

# Create the DataFrame
df1 = pd.DataFrame({'Path': image_paths, 'Label': labels})

```

In []:

```

import pandas as pd

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

new_df3 = pd.concat([df1, df2], ignore_index=True)

```

In []:

```
new_df3['Label'].value_counts()
```

Out[]:

	count
Label	
pigmented benign keratosis	962
melanoma	938
basal cell carcinoma	876
nevus	857
squamous cell carcinoma	681
vascular lesion	639
actinic keratosis	614
dermatofibroma	595
seborrheic keratosis	577

dtype: int64

Now we have sufficient data for all classes after augmentation.

Train the model on the data created using Augmentor

In [2]:

```

batch_size = 32
img_height = 180
img_width = 180

```

```
In [ ]: # Create a new directory to store augmented images
import shutil
augmented_data_dir = pathlib.Path('/content/gdrive/MyDrive/Skin cancer ISIC The Internat'
augmented_data_dir.mkdir(parents=True, exist_ok=True)

# Copy and organize images based on labels in the DataFrame
for index, row in new_df3.iterrows():
    image_path = row['Path']
    label = row['Label']

    # Create subdirectories for each label.
    label_dir = augmented_data_dir / label
    label_dir.mkdir(parents=True, exist_ok=True)

    # Copy the image to the appropriate label subdirectory
    shutil.copy2(image_path, label_dir)
```

Create a training dataset

```
In [10]: data_dir_train1=pathlib.Path("/content/gdrive/MyDrive/Skin cancer ISIC The Internat"
train_ds = tf.keras.preprocessing.image_dataset_from_directory(
    data_dir_train1,
    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

```
In [12]: val_ds = tf.keras.preprocessing.image_dataset_from_directory(
    data_dir_train1,
    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.

Creation of model with normalization.

```
In [10]: # Import necessary modules
import tensorflow as tf
from tensorflow.keras import layers, models, regularizers

# Model Definition
model = models.Sequential([
```

```

layers.Input(shape=(img_height, img_width, 3)), # Input layer

# Normalization Layer (Rescaling)
layers.Rescaling(1./255),

# Convolutional Layers with Regularization
layers.Conv2D(32, (3, 3), activation='relu', kernel_regularizer=regularizers.l2),
layers.MaxPooling2D((2, 2)),
layers.Conv2D(64, (3, 3), activation='relu', kernel_regularizer=regularizers.l2),
layers.MaxPooling2D((2, 2)),
layers.Conv2D(128, (3, 3), activation='relu', kernel_regularizer=regularizers.l1),
layers.MaxPooling2D((2, 2)),
layers.Conv2D(128, (3, 3), activation='relu', kernel_regularizer=regularizers.l1),
layers.MaxPooling2D((2, 2)),

# Flatten and Dense Layers with Dropout
layers.Flatten(),
layers.Dense(512, activation='relu', kernel_regularizer=regularizers.l2(0.001)),
layers.Dropout(0.5),
layers.Dense(9, activation='softmax') # Output layer with 9 classes
])

```

Compile the model with optimizer and loss function.

```
In [11]: model.compile(optimizer='adam', # Using Adam optimizer
                      loss='sparse_categorical_crossentropy',
                      metrics=['accuracy'])
```

```
In [12]: from tensorflow.keras.callbacks import ModelCheckpoint

# 1. Define the checkpoint callback
checkpoint_filepath = '/content/gdrive/MyDrive/checkpoints/model_{epoch:02d}.keras'
model_checkpoint_callback = ModelCheckpoint(
    filepath=checkpoint_filepath,
    save_freq='epoch',

)

# 2. Split the training process into 10 blocks (50 epochs / 5 epochs per block)
epochs_per_block = 5
total_epochs = 50

# Block 1
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=epochs_per_block,
    callbacks=[model_checkpoint_callback]
)

# Block 2
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{epo
```

```
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=2 * epochs_per_block,
    initial_epoch=epochs_per_block,
    callbacks=[model_checkpoint_callback]
)

# Block 3
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{2 *'
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=3 * epochs_per_block,
    initial_epoch=2 * epochs_per_block,
    callbacks=[model_checkpoint_callback]
)

# Block 4
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{3 *'
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=4 * epochs_per_block,
    initial_epoch=3 * epochs_per_block,
    callbacks=[model_checkpoint_callback]
)

# Block 5
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{4 *'
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=5 * epochs_per_block,
    initial_epoch=4 * epochs_per_block,
    callbacks=[model_checkpoint_callback]
)

# Block 6
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{5 *'
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=6 * epochs_per_block,
    initial_epoch=5 * epochs_per_block,
    callbacks=[model_checkpoint_callback]
)

# Block 7
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{6 *'
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=7 * epochs_per_block,
    initial_epoch=6 * epochs_per_block,
    callbacks=[model_checkpoint_callback]
)
```

```
# Block 8
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{7 * 3 + 1}')
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=8 * epochs_per_block,
    initial_epoch=7 * epochs_per_block,
    callbacks=[model_checkpoint_callback]
)

# Block 9
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{8 * 3 + 1}')
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=9 * epochs_per_block,
    initial_epoch=8 * epochs_per_block,
    callbacks=[model_checkpoint_callback]
)

# Block 10
model = tf.keras.models.load_model(f'/content/gdrive/MyDrive/checkpoints/model_{9 * 3 + 1}')
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=10 * epochs_per_block,
    initial_epoch=9 * epochs_per_block,
    callbacks=[model_checkpoint_callback]
)
```

Epoch 1/5
169/169 [=====] - 124s 658ms/step - loss: 2.3895 - accuracy: 0.1502 - val_loss: 2.1227 - val_accuracy: 0.2316
Epoch 2/5
169/169 [=====] - 48s 274ms/step - loss: 2.0210 - accuracy: 0.2368 - val_loss: 1.8081 - val_accuracy: 0.3341
Epoch 3/5
169/169 [=====] - 47s 275ms/step - loss: 1.7456 - accuracy: 0.3414 - val_loss: 1.6223 - val_accuracy: 0.4091
Epoch 4/5
169/169 [=====] - 47s 274ms/step - loss: 1.6282 - accuracy: 0.3872 - val_loss: 1.5581 - val_accuracy: 0.4380
Epoch 5/5
169/169 [=====] - 47s 272ms/step - loss: 1.5709 - accuracy: 0.4201 - val_loss: 1.5747 - val_accuracy: 0.4172
Epoch 6/10
169/169 [=====] - 48s 272ms/step - loss: 1.5389 - accuracy: 0.4282 - val_loss: 1.4983 - val_accuracy: 0.4469
Epoch 7/10
169/169 [=====] - 47s 270ms/step - loss: 1.4994 - accuracy: 0.4386 - val_loss: 1.4215 - val_accuracy: 0.4818
Epoch 8/10
169/169 [=====] - 47s 275ms/step - loss: 1.4818 - accuracy: 0.4471 - val_loss: 1.4018 - val_accuracy: 0.4944
Epoch 9/10
169/169 [=====] - 47s 271ms/step - loss: 1.4707 - accuracy: 0.4518 - val_loss: 1.4117 - val_accuracy: 0.5004
Epoch 10/10
169/169 [=====] - 47s 270ms/step - loss: 1.4335 - accuracy: 0.4707 - val_loss: 1.4887 - val_accuracy: 0.4736
Epoch 11/15
169/169 [=====] - 48s 271ms/step - loss: 1.4232 - accuracy: 0.4750 - val_loss: 1.4060 - val_accuracy: 0.4796
Epoch 12/15
169/169 [=====] - 47s 270ms/step - loss: 1.3953 - accuracy: 0.4846 - val_loss: 1.3335 - val_accuracy: 0.5085
Epoch 13/15
169/169 [=====] - 47s 275ms/step - loss: 1.4062 - accuracy: 0.4820 - val_loss: 1.3349 - val_accuracy: 0.5219
Epoch 14/15
169/169 [=====] - 47s 274ms/step - loss: 1.3794 - accuracy: 0.4976 - val_loss: 1.3894 - val_accuracy: 0.5108
Epoch 15/15
169/169 [=====] - 46s 269ms/step - loss: 1.3321 - accuracy: 0.5078 - val_loss: 1.2950 - val_accuracy: 0.5509
Epoch 16/20
169/169 [=====] - 48s 274ms/step - loss: 1.3280 - accuracy: 0.5274 - val_loss: 1.3411 - val_accuracy: 0.5241
Epoch 17/20
169/169 [=====] - 47s 271ms/step - loss: 1.2894 - accuracy: 0.5495 - val_loss: 1.2502 - val_accuracy: 0.5664
Epoch 18/20
169/169 [=====] - 49s 285ms/step - loss: 1.2819 - accuracy: 0.5499 - val_loss: 1.2889 - val_accuracy: 0.5612
Epoch 19/20
169/169 [=====] - 48s 277ms/step - loss: 1.2488 - accuracy:

0.5673 - val_loss: 1.2230 - val_accuracy: 0.5805
Epoch 20/20
169/169 [=====] - 47s 274ms/step - loss: 1.2182 - accuracy: 0.5794 - val_loss: 1.2652 - val_accuracy: 0.5687
Epoch 21/25
169/169 [=====] - 49s 276ms/step - loss: 1.2120 - accuracy: 0.5835 - val_loss: 1.2524 - val_accuracy: 0.6013
Epoch 22/25
169/169 [=====] - 47s 274ms/step - loss: 1.2001 - accuracy: 0.5924 - val_loss: 1.2382 - val_accuracy: 0.5932
Epoch 23/25
169/169 [=====] - 47s 272ms/step - loss: 1.1771 - accuracy: 0.6046 - val_loss: 1.1554 - val_accuracy: 0.6310
Epoch 24/25
169/169 [=====] - 48s 277ms/step - loss: 1.1502 - accuracy: 0.6135 - val_loss: 1.1698 - val_accuracy: 0.6140
Epoch 25/25
169/169 [=====] - 47s 273ms/step - loss: 1.1309 - accuracy: 0.6278 - val_loss: 1.1603 - val_accuracy: 0.6340
Epoch 26/30
169/169 [=====] - 48s 277ms/step - loss: 1.0928 - accuracy: 0.6339 - val_loss: 1.0734 - val_accuracy: 0.6630
Epoch 27/30
169/169 [=====] - 47s 274ms/step - loss: 1.0701 - accuracy: 0.6589 - val_loss: 1.0861 - val_accuracy: 0.6808
Epoch 28/30
169/169 [=====] - 44s 254ms/step - loss: 1.0689 - accuracy: 0.6541 - val_loss: 1.0668 - val_accuracy: 0.6607
Epoch 29/30
169/169 [=====] - 43s 254ms/step - loss: 1.0412 - accuracy: 0.6639 - val_loss: 1.0386 - val_accuracy: 0.6941
Epoch 30/30
169/169 [=====] - 44s 255ms/step - loss: 1.0089 - accuracy: 0.6775 - val_loss: 1.0340 - val_accuracy: 0.6978
Epoch 31/35
169/169 [=====] - 46s 259ms/step - loss: 1.0194 - accuracy: 0.6808 - val_loss: 1.1213 - val_accuracy: 0.6823
Epoch 32/35
169/169 [=====] - 44s 254ms/step - loss: 0.9742 - accuracy: 0.6947 - val_loss: 0.9782 - val_accuracy: 0.7231
Epoch 33/35
169/169 [=====] - 44s 254ms/step - loss: 1.0107 - accuracy: 0.6881 - val_loss: 1.0537 - val_accuracy: 0.6897
Epoch 34/35
169/169 [=====] - 44s 257ms/step - loss: 0.9400 - accuracy: 0.7174 - val_loss: 1.0188 - val_accuracy: 0.7045
Epoch 35/35
169/169 [=====] - 43s 253ms/step - loss: 0.9480 - accuracy: 0.7085 - val_loss: 0.9875 - val_accuracy: 0.7105
Epoch 36/40
169/169 [=====] - 46s 262ms/step - loss: 0.9481 - accuracy: 0.7175 - val_loss: 0.9728 - val_accuracy: 0.7253
Epoch 37/40
169/169 [=====] - 44s 256ms/step - loss: 0.9134 - accuracy: 0.7287 - val_loss: 0.9350 - val_accuracy: 0.7416
Epoch 38/40

```
169/169 [=====] - 44s 257ms/step - loss: 0.8799 - accuracy: 0.7398 - val_loss: 0.9073 - val_accuracy: 0.7491
Epoch 39/40
169/169 [=====] - 44s 256ms/step - loss: 0.8539 - accuracy: 0.7507 - val_loss: 0.8870 - val_accuracy: 0.7624
Epoch 40/40
169/169 [=====] - 44s 255ms/step - loss: 0.8975 - accuracy: 0.7422 - val_loss: 0.9529 - val_accuracy: 0.7313
Epoch 41/45
169/169 [=====] - 46s 259ms/step - loss: 0.8734 - accuracy: 0.7457 - val_loss: 0.8844 - val_accuracy: 0.7699
Epoch 42/45
169/169 [=====] - 43s 253ms/step - loss: 0.8661 - accuracy: 0.7506 - val_loss: 0.8960 - val_accuracy: 0.7691
Epoch 43/45
169/169 [=====] - 43s 254ms/step - loss: 0.8417 - accuracy: 0.7602 - val_loss: 0.8735 - val_accuracy: 0.7877
Epoch 44/45
169/169 [=====] - 43s 254ms/step - loss: 0.8177 - accuracy: 0.7711 - val_loss: 0.9307 - val_accuracy: 0.7624
Epoch 45/45
169/169 [=====] - 43s 253ms/step - loss: 0.8111 - accuracy: 0.7791 - val_loss: 0.8525 - val_accuracy: 0.7758
Epoch 46/50
169/169 [=====] - 46s 262ms/step - loss: 0.8245 - accuracy: 0.7685 - val_loss: 0.8664 - val_accuracy: 0.7795
Epoch 47/50
169/169 [=====] - 44s 256ms/step - loss: 0.8611 - accuracy: 0.7591 - val_loss: 0.8496 - val_accuracy: 0.7951
Epoch 48/50
169/169 [=====] - 44s 254ms/step - loss: 0.7771 - accuracy: 0.7871 - val_loss: 0.8729 - val_accuracy: 0.7721
Epoch 49/50
169/169 [=====] - 44s 254ms/step - loss: 0.7723 - accuracy: 0.7914 - val_loss: 0.8709 - val_accuracy: 0.7936
Epoch 50/50
169/169 [=====] - 43s 254ms/step - loss: 0.8008 - accuracy: 0.7797 - val_loss: 0.9135 - val_accuracy: 0.7580
```

Visualize the model results

```
In [14]: acc = history.history['accuracy']
val_acc = history.history['val_accuracy']

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

epochs_range = range(len(acc))

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()

```



Findings:

After augmenting the data Model accuracy is increased to 0.78 and validation accuracy to 0.75, considerable improvement in model.

Building another model to improve accuracy.

```
In [3]: import tensorflow as tf
from tensorflow.keras import layers, models, regularizers, optimizers
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.callbacks import EarlyStopping

# Model Definition with Improvements
model = models.Sequential([
    layers.Input(shape=(img_height, img_width, 3)),

    # Data Augmentation (within the model)
    layers.RandomFlip("horizontal_and_vertical"),
    layers.RandomRotation(0.2),

    # Normalization Layer (Rescaling)
    layers.Rescaling(1./255),

    # Convolutional Layers with Regularization
    layers.Conv2D(32, (3, 3), activation='relu', kernel_regularizer=regularizers.l2),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(64, (3, 3), activation='relu', kernel_regularizer=regularizers.l2),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(128, (3, 3), activation='relu', kernel_regularizer=regularizers.l1),
    layers.MaxPooling2D((2, 2)),
    layers.Conv2D(128, (3, 3), activation='relu', kernel_regularizer=regularizers.l1),
    layers.MaxPooling2D((2, 2)),

    # Flatten and Dense Layers with Dropout
    layers.Flatten(),
    layers.Dense(512, activation='relu', kernel_regularizer=regularizers.l2(0.001)),
    layers.Dropout(0.5),
    layers.Dense(9, activation='softmax') # Output Layer with 9 classes
])
```

```
In [4]: # Compile the model with a different optimizer and Learning rate
model.compile(
    optimizer=optimizers.Adam(learning_rate=0.0005), # Using Adam with a Lower Learning Rate
    loss='sparse_categorical_crossentropy',
    metrics=['accuracy']
)
```

```
In [13]: # Early Stopping
early_stopping = EarlyStopping(monitor='val_loss', patience=5, restore_best_weights=True)

# Train the model
epochs = 30 # You can adjust this
history = model.fit(
    train_ds,
    validation_data=val_ds,
    epochs=epochs,
    callbacks=[early_stopping] # Add early stopping
)
```

Epoch 1/30
169/169 [=====] - 88s 445ms/step - loss: 2.3368 - accuracy: 0.2057 - val_loss: 1.9234 - val_accuracy: 0.2992
Epoch 2/30
169/169 [=====] - 47s 269ms/step - loss: 1.8005 - accuracy: 0.3431 - val_loss: 1.6674 - val_accuracy: 0.4135
Epoch 3/30
169/169 [=====] - 45s 266ms/step - loss: 1.6690 - accuracy: 0.3861 - val_loss: 1.6217 - val_accuracy: 0.4246
Epoch 4/30
169/169 [=====] - 46s 271ms/step - loss: 1.5958 - accuracy: 0.4104 - val_loss: 1.6237 - val_accuracy: 0.4447
Epoch 5/30
169/169 [=====] - 46s 270ms/step - loss: 1.5582 - accuracy: 0.4310 - val_loss: 1.6327 - val_accuracy: 0.4276
Epoch 6/30
169/169 [=====] - 47s 272ms/step - loss: 1.5344 - accuracy: 0.4484 - val_loss: 1.5077 - val_accuracy: 0.4536
Epoch 7/30
169/169 [=====] - 46s 270ms/step - loss: 1.4920 - accuracy: 0.4577 - val_loss: 1.4646 - val_accuracy: 0.4662
Epoch 8/30
169/169 [=====] - 46s 271ms/step - loss: 1.4905 - accuracy: 0.4659 - val_loss: 1.4236 - val_accuracy: 0.4915
Epoch 9/30
169/169 [=====] - 46s 272ms/step - loss: 1.4769 - accuracy: 0.4649 - val_loss: 1.4651 - val_accuracy: 0.4781
Epoch 10/30
169/169 [=====] - 46s 272ms/step - loss: 1.4819 - accuracy: 0.4542 - val_loss: 1.4223 - val_accuracy: 0.4878
Epoch 11/30
169/169 [=====] - 46s 271ms/step - loss: 1.4408 - accuracy: 0.4781 - val_loss: 1.4411 - val_accuracy: 0.4774
Epoch 12/30
169/169 [=====] - 46s 266ms/step - loss: 1.4251 - accuracy: 0.4866 - val_loss: 1.4125 - val_accuracy: 0.4766
Epoch 13/30
169/169 [=====] - 46s 270ms/step - loss: 1.4187 - accuracy: 0.4855 - val_loss: 1.3958 - val_accuracy: 0.4736
Epoch 14/30
169/169 [=====] - 46s 266ms/step - loss: 1.4181 - accuracy: 0.4905 - val_loss: 1.3710 - val_accuracy: 0.4952
Epoch 15/30
169/169 [=====] - 46s 271ms/step - loss: 1.3992 - accuracy: 0.4963 - val_loss: 1.3533 - val_accuracy: 0.4981
Epoch 16/30
169/169 [=====] - 46s 272ms/step - loss: 1.4157 - accuracy: 0.4866 - val_loss: 1.4210 - val_accuracy: 0.4699
Epoch 17/30
169/169 [=====] - 46s 270ms/step - loss: 1.3904 - accuracy: 0.4967 - val_loss: 1.3419 - val_accuracy: 0.5093
Epoch 18/30
169/169 [=====] - 46s 269ms/step - loss: 1.3810 - accuracy: 0.4994 - val_loss: 1.4220 - val_accuracy: 0.4870
Epoch 19/30
169/169 [=====] - 46s 269ms/step - loss: 1.3614 - accuracy:

```
0.5098 - val_loss: 1.3191 - val_accuracy: 0.5056
Epoch 20/30
169/169 [=====] - 46s 268ms/step - loss: 1.3651 - accuracy: 0.4981 - val_loss: 1.3253 - val_accuracy: 0.5056
Epoch 21/30
169/169 [=====] - 46s 268ms/step - loss: 1.3530 - accuracy: 0.5117 - val_loss: 1.3016 - val_accuracy: 0.5219
Epoch 22/30
169/169 [=====] - 46s 271ms/step - loss: 1.3615 - accuracy: 0.5141 - val_loss: 1.3610 - val_accuracy: 0.4907
Epoch 23/30
169/169 [=====] - 46s 268ms/step - loss: 1.3183 - accuracy: 0.5163 - val_loss: 1.3969 - val_accuracy: 0.4870
Epoch 24/30
169/169 [=====] - 46s 269ms/step - loss: 1.3394 - accuracy: 0.5273 - val_loss: 1.3169 - val_accuracy: 0.5160
Epoch 25/30
169/169 [=====] - 46s 268ms/step - loss: 1.3242 - accuracy: 0.5280 - val_loss: 1.3891 - val_accuracy: 0.5033
Epoch 26/30
169/169 [=====] - 45s 266ms/step - loss: 1.3224 - accuracy: 0.5293 - val_loss: 1.3070 - val_accuracy: 0.5345
```

```
In [14]: # View the summary of all Layers
model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
=====		
random_flip (RandomFlip)	(None, 180, 180, 3)	0
random_rotation (RandomRotation)	(None, 180, 180, 3)	0
rescaling (Rescaling)	(None, 180, 180, 3)	0
conv2d (Conv2D)	(None, 178, 178, 32)	896
max_pooling2d (MaxPooling2D)	(None, 89, 89, 32)	0
conv2d_1 (Conv2D)	(None, 87, 87, 64)	18496
max_pooling2d_1 (MaxPooling2D)	(None, 43, 43, 64)	0
conv2d_2 (Conv2D)	(None, 41, 41, 128)	73856
max_pooling2d_2 (MaxPooling2D)	(None, 20, 20, 128)	0
conv2d_3 (Conv2D)	(None, 18, 18, 128)	147584
max_pooling2d_3 (MaxPooling2D)	(None, 9, 9, 128)	0
flatten (Flatten)	(None, 10368)	0
dense (Dense)	(None, 512)	5308928
dropout (Dropout)	(None, 512)	0
dense_1 (Dense)	(None, 9)	4617
=====		
Total params: 5554377 (21.19 MB)		
Trainable params: 5554377 (21.19 MB)		
Non-trainable params: 0 (0.00 Byte)		

Model accuracy not improved with dropout layer and early stop>

Conclusion:

1. Imbalanced data significantly impacted the training and performance of Model.
2. The model tends to be biased towards the majority class, resulting in poor performance in predicting the minority class.

3. The model might not learn the underlying patterns of the minority class due to the scarcity of examples.
4. Finally after augmentation of data with sufficient samples model accuracy is increased considerably.

Accuracy of final model on training dataset : 0.78

Accuracy of final model on validation dataset : 0.75

In []: