

DATA PREPROCESSING

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In [1]: imageSize = [299,299]
trainPath = r"E:\GCT\SEM 7\nalaiyathiran\dataset\preprocessed dataset\preprocessed dataset\training"
testPath = r"E:\GCT\SEM 7\nalaiyathiran\dataset\preprocessed dataset\preprocessed dataset\testing"

In [2]: from tensorflow.keras.layers import Dense, Flatten, Input
from tensorflow.keras.models import Model
from tensorflow.keras.preprocessing import image
from tensorflow.keras.preprocessing.image import ImageDataGenerator,load_img
from tensorflow.keras.applications.xception import Xception,preprocess_input
from glob import glob
import numpy as np
import matplotlib.pyplot as plt

In [3]: train_datagen = ImageDataGenerator(rescale=1./255, shear_range = 0.2, zoom_range = 0.2, horizontal_flip = True)
test_datagen = ImageDataGenerator(rescale = 1./255)

In [6]: training_set = train_datagen.flow_from_directory(r"E:\GCT\SEM 7\nalaiyathiran\dataset\preprocessed dataset\preprocessed dataset\training",
                                                    target_size = (299,299),
                                                    batch_size = 32,
                                                    class_mode = 'categorical')
test_set = test_datagen.flow_from_directory(r"E:\GCT\SEM 7\nalaiyathiran\dataset\preprocessed dataset\preprocessed dataset\training",
                                                    target_size = (299,299),
                                                    batch_size = 32,
                                                    class_mode = 'categorical')
```

Found 3662 images belonging to 5 classes.
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