APPLY IMAGE DATAGENERATOR FUNCTIONALITY TO TRAINSET AND TESTSET

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# Importing the Keras libraries and packages
from keras.models import Sequential
from keras.layers import Convolution2D
from keras.layers import MaxPooling2D
from keras.layers import Flatten
from keras.layers import Dense
from keras.models import model_from_json
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings('ignore')
batch_size = 32

from tensorflow.keras.preprocessing.image import ImageDataGenerator

# All images will be rescaled by 1./255
train_datagen = ImageDataGenerator(rescale=1/255)

# Flow training images in batches of 128 using train_datagen generator
train_generator = train_datagen.flow_from_directory(
        'Data',  # This is the source directory for training images
        target_size=(200, 200),  # All images will be resized to 200 x 200
        batch_size=batch_size,
# Specify the classes explicitly
        classes = ['Apple','Badam','BadamDrink','Banana','BeefSteak',
'BeetrootFry','Biriyani','Biscuits','BitterGuardFry','Boiledegg',
'BreadandJam','BreadwithPeanutbutter','Burger','CapsicumCurry','Cashew',
'CauliflowerFry','Chappathi','Cheeseballs','ChilliBeef','Chocolate',
'ChocolateIcecream','ChoolapooriwithChanna','CoffeeorLatte','CrabMasala','Cucumber
',
'Curdrice','Dosa'],
        # Since we use categorical_crossentropy loss, we need categorical labels
        class_mode='categorical')
```