PROJECT DEVELOPMENT PHASE SPRINT-II

Date	27October2022
TeamID	PNT2022TMID49469
Project Name	AI-Powered Nutrition Analyzer For Fitness Enthusiasts
MaximumMarks	4Marks

Image Preprocessing

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#Import The ImageDataGenerator Library:

from keras.datasets import mnist
from tensorflow.keras import Sequential
from keras.layers import Dense, Dropout
from keras.utils import np_utils
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
% matplotlib inline
from tensorflow.keras.preprocessing.image import ImageDataGenerator

#Define the parameters /arguments for imagedatagenerator class :

 $train_datagen = ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range=0.2, horizontal_flip=True, vertical_flip=True)$

test_datagen = ImageDataGenerator(rescale=1./255)

#Applying ImageDataGenerator functionality to trainset and testset:

 $x_train = train_datagen.flow_from_directory(r''/content/drive/MyDrive/training'', target_size=(64,64), batch_size=32, color_mode="rgb", class_mode="sparse")$

 $x_test = test_datagen.flow_from_directory(r"/content/drive/MyDrive/testing", target_size=(64,64), batch_size=32, color_mode="rgb", class_mode="sparse")$

print(x_train.class_indices)

print(x_test.class_indices)

from collections import Counter as c c(x_train.labels)