PROJECT DEVELOPMENT PHASE
SPRINT-II

Date	5 November 2022
Team ID	PNT2022TMID494941
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.
Maximum Marks	4 Marks

Image Preprocessing

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#Import The ImageDataGenerator Library:

# Import required lib
from tensorflow.keras.preprocessing.image import ImageDataGenerator

#Configure ImageDataGenerator Class :

#Creating augmentation on training variable

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

Creating augmentation on testing variable

test_datagen = ImageDataGenerator(rescale=1./255)

#Apply ImageDataGenerator Functionality To Trainset And Testset :

For Body Damage:
# Passing training data to train variable for body
xtrain = train_datagen.flow_from_directory('/content/damage vehicle/body/training',
                    target_size=(224,224),
                    class_mode='categorical',
                    batch_size=10)

# Passing testing data to test variable for body
xtest = test_datagen.flow_from_directory('/content/damage vehicle/body/validation',
                    target_size=(224,224),
                    class_mode='categorical',
                    batch_size=10)

For Level Damage:

# Passing training data to train variable for body
x_train = train_datagen.flow_from_directory('/content/damage vehicle/level/training',
                    target_size=(224,224),

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                         class_mode='categorical',
                         batch_size=10)

# Passing training data to test variable for body
x_test = test_datagen.flow_from_directory('/content/damage vehicle/level/validation',
                         target_size=(224,224),
                         class_mode='categorical',
                         batch_size=10)
```