PROJECT DEVELOPMENT PHASE
SPRINT-II

Date	5 November 2022
Team ID	PNT2022TMID47292
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.
Maximum Marks	4 Marks

Image Preprocessing

[Click Here to view the project (Hyperlink)](#)

#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),
```

```
                    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)
```