

**PROJECT DEVELOPMENT
PHASE
SPRIN
T-II**

Date	5 November 2022
TeamID	PNT2022TMID47627
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.
MaximumMarks	4 Marks

Image Pre-processing

#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:

