

PROJECT DEVELOPMENT PHASE

SPRINT-II

Date	5 November 2022
Team ID	PNT2022TMID30874
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:

[illegible]

```
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)
```