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PROJECT DEVELOPMENT PHASE
SPRINT-II

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TeamID	PNT2022TMID25776
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.
MaximumMarks	4 Marks

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Image Pre-processing

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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),
                        class_mode='categorical',
                        batch_size=10)

```python
# 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)
```