PROJECT DEVELOPMENT PHASE SPRINT-II

Date	5 November 2022
TeamID	PNT2022TMID494941
Project Name	Intelligent vehicle damage assessment & cost estimator for
	insurance companies.
MaximumMarks	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=(64,64), class_mode='categorical', batch_size=100)
```

Passing testing data to test variable for body

For Level Damage:

Passing training data to test variable for body $\begin{aligned} x_test &= test_datagen.flow_from_directory('/content/damage vehicle/level/validation', \\ target_size=(64,64), \\ class_mode='categorical', \\ batch_size=100) \end{aligned}$