PROJECT DEVELOPMENT PHASE SPRINT-II

Date	5 November 2022
TeamID	PNT2022TMID09950
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 testing data to test variable for body

For Level Damage:

```
\label{eq:passing_training} \begin{tabular}{ll} \# \ 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) \end{tabular}
```