PROJECT DEVELOPMENT PHASE SPRINT-II

Date	09 November 2022
TeamID	PNT2022TMID00736
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:

```
\label{eq: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)$
```