PROJECT DEVELOPMENT PHASE

SPRINT-II

Date	9 -11- 2022
Team ID	PNT2022TMID40066
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.
Maximum Marks	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=(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)

# 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)
```