PROJECT DEVELOPMENT PHASE SPRINT-II IMAGE PRE-PROCESSING

| Date | 10 November 2022 |
|---------------|--|
| Team ID | PNT2022TMID21789 |
| Project Name | Intelligent Vehicle Damage Assessment & Cost Estimator |
| | for Insurance Companies |
| Maximum Marks | 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:

Passing training data to train variable for body x_train = train_datagen.flow_from_directory('/content/damage vehicle/level/training',

class_mode='categorical',

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)