

Project Development Phase

Sprint 2

Team ID: PNT2022TMID35710

Project Name: Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies

Image Pre Processing

```
In [ ]: from google.colab import drive
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

```
In [ ]: from tensorflow.keras.preprocessing.image import ImageDataGenerator
```

```
In [ ]: train_datagen = ImageDataGenerator(rescale=1./255,
                                          shear_range=0.1,
                                          zoom_range=0.1,
                                          horizontal_flip=True)
```

```
In [ ]: val_datagen = ImageDataGenerator(rescale = 1./255)
```

For Body

```
In [ ]: training_set = train_datagen.flow_from_directory('/content/drive/MyDrive/Car damage/body/training',
                                                         target_size=(224,224),
                                                         batch_size=10,
                                                         class_mode='categorical')

test_set = val_datagen.flow_from_directory('/content/drive/MyDrive/Car damage/body/validation',
                                           target_size=(224,224),
                                           batch_size=10,
                                           class_mode='categorical')
```

Found 979 images belonging to 3 classes.

Found 171 images belonging to 3 classes.

For the level of Damage:

```
In [ ]: training_set = train_datagen.flow_from_directory('/content/drive/MyDrive/Car damage/level/training',
                                                         target_size=(224,224),
                                                         batch_size=10,
                                                         class_mode='categorical')

test_set = val_datagen.flow_from_directory('/content/drive/MyDrive/Car damage/level/validation',
                                           target_size=(224,224),
                                           batch_size=10,
                                           class_mode='categorical')
```

Found 979 images belonging to 3 classes.

Found 171 images belonging to 3 classes.