**PROJECT DEVELOPMENT PHASE**

**SPRINT-II**

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| Date | 5 November 2022 |
| TeamID | PNT2022TMID47291 |
| 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:**

# 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)