

Delivery of Sprint 1

Date	24 November 2022
Team ID	PNT2022TMID52086
Project Name	Real time Communication System Powered by AI for Specially Abled

Data Collection

Model Testing and Training is downloaded from the below link.

- <https://drive.google.com/file/d/1ITbDvhLwyTTkuUYfNjOKhcIZh7hDgi64/view?usp=sharing>

Image Preprocessing

Import ImageDataGenerator Library And Configure It

```
In [1]: from tensorflow.keras.preprocessing.image import ImageDataGenerator
```

```
In [2]: train_datagen=ImageDataGenerator(rescale=1./255, horizontal_flip=True, vertical_flip=True, zoom_range=0.2)
```

```
In [3]: test_datagen=ImageDataGenerator(rescale=1./255)
```

Apply ImageDataGenerator Functionality To Train And Test Set

```
In [4]: x_train=train_datagen.flow_from_directory(r"C:\Users\rajes\Desktop\Dataset\training_set", target_size=(64,64),  
class_mode="categorical", batch_size=30)
```

Found 15750 images belonging to 9 classes.

```
In [5]: x_test=test_datagen.flow_from_directory(r"C:\Users\rajes\Desktop\Dataset\test_set", target_size=(64,64),  
class_mode="categorical", batch_size=30)
```

Found 2250 images belonging to 9 classes.