ADD POOLING LAYERS

Team ID: PNT2022TMID06334

x_train.class_indices

Title: Real-Time Communication System Powered by AI for Specially Abled

```
Loading the Dataset & Data Generation
from tensorflow.keras.preprocessing.image import ImageDataGenerator
# Training Datagen
train_datagen =
ImageDataGenerator(rescale=1/255,zoom range=0.2,horizontal flip=True,vertical flip=False)
# Testing Datagen
test_datagen = ImageDataGenerator(rescale=1/255)
# Training Dataset
x_train=train_datagen.flow_from_directory(r'/content/drive/MyDrive/Dataset/training_set&#
39;,target_size
=(64,64), class_mode='categorical',batch_size=900)
# Testing Dataset
x_test=test_datagen.flow_from_directory(r'/content/drive/MyDrive/Dataset/test_set',ta
rget_size=(64,6
4), class_mode='categorical',batch_size=900)
Found 15760 images belonging to 9 classes.
Found 2250 images belonging to 9 classes.
print("Len x-train : ", len(x_train))
print("Len x-test : ", len(x_test))
Len x-train: 18
Len x-test: 3
# The Class Indices in Training Dataset
```

```
{'A': 0, 'B': 1, 'C': 2, 'D': 3, 'E': 4, 'F': 5, 'G': 6, 'H': 7, 'I': 8}

Model Creation

# Importing Libraries

from tensorflow.keras.models import Sequential

from tensorflow.keras.layers import Convolution2D,MaxPooling2D,Flatten,Dense

# Creating Model
```

model=Sequential()
Adding Layers

model.add(Convolution2D(32,(3,3),activation='relu',input_shape=(64,64,3))) model.add(MaxPooling2D(pool_size=(2,2)))

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