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Model Building Initializing The Model

```
In []:
from tensorflow.keras.preprocessing.image import ImageDataGenerator
In []:
spatial dropout=0.05 recurrent dropout=0.1
In []:
# Training Datagen train datagen =
ImageDataGenerator(rescale=1/255, zoom range=0.2, horizontal flip=True, vertica
1 flip=False) # Testing Datagen
test datagen = ImageDataGenerator(rescale=1/255)
In []:
 # Training Dataset
x train=train datagen.flow from directory(r'/content/drive/MyDrive/Dataset/t
raining set', target size=(64,64), class mode='categorical', batch size=900)
# Testing Dataset
x test=test datagen.flow from directory(r'/content/drive/MyDrive/Dataset/tes
t set', target size=(64,64), 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
In []:
# The Class Indices in Training Dataset x train.class indices
Out[]:
{'A': 0, 'B': 1, 'C': 2, 'D': 3, 'E': 4, 'F': 5, 'G': 6, 'H': 7, 'I': 8}
Model Creation
In []:
 # Importing Libraries from tensorflow.keras.models import Sequential from
tensorflow.keras.layers import Convolution2D, MaxPooling2D, Flatten, Dense
In []:
 # Creating Model model=Sequential()
```