IBM-Project-28638-1660114698

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Project Description

The project deals on building an application which helps the specially challenged people to communicate between them and the common people. Communication between a person with hearing/speech impairment and a normal person has always been a challenging task. This application tries to reduce the barrier of communication by developing an assistive application for specially challenged people.

Image Augmentation:

Image Augmentation

[] from tensorflow.keras.preprocessing.image import ImageDataGenerator
 print("This dataset has been created and uploaded by IBM-TeamID-IBM-Project-2475-1658472446")

This dataset has been created and uploaded by IBM-TeamID-IBM-Project-2475-1658472446

[] train_datagen = ImageDataGenerator(rescale=1./255,zoom_range=0.2,horizontal_flip=True, vertical_flip=False)

[] test_datagen= ImageDataGenerator(rescale=1./255)

Applying Convolution , Dense Layers:

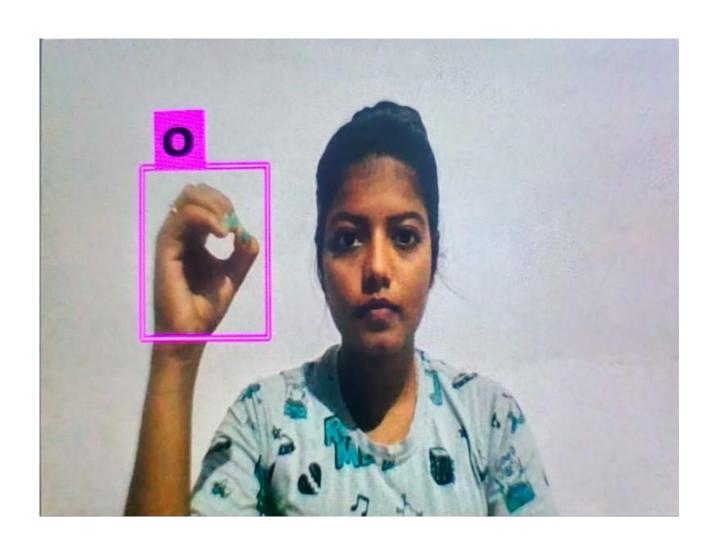
```
[ ] from tensorflow.keras.layers import Dense, Convolution2D, MaxPooling2D, Flatten
model = Sequential()
[ ] model.add(Convolution2D(32, (3,3), input_shape=(100,100,3),activation = 'relu')) #Feature map
[ ] model.add(MaxPooling2D(pool_size = (2,2))) #Pooled matrix
[ ] model.add(Flatten())
[ ] model.summary()
    Model: "sequential"
    Layer (type)
                              Output Shape
                                                       Param #
     conv2d (Conv2D)
                              (None, 98, 98, 32)
                                                       896
     max_pooling2d (MaxPooling2D (None, 49, 49, 32)
     flatten (Flatten) (None, 76832)
                                                 0
```

Tested Model:



Testing:



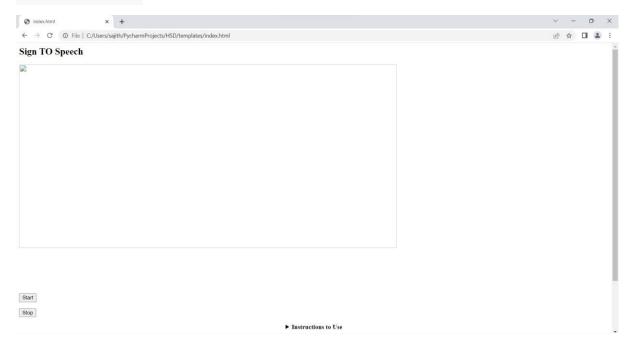


Saving text:

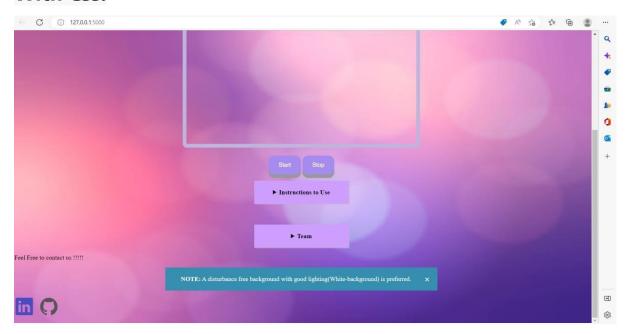


Building Flask Application:

Without Css:



With Css:



Flask Output:

