PNT2022TMID50371


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   "source": [
    "from keras.preprocessing.image import ImageDataGenerator\n",

"train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=
True)\n",

    "test_datagen=ImageDataGenerator(rescale=1./255)"
   ]
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  {
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   "text": [
    "Found 15750 images belonging to 9 classes.\n"
   ]
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 "source": [
  "x_train = train_datagen.flow_from_directory(r'C:\\Users\\schit\\Downloads\\conversation engine for deaf and dumb (1)\\Dataset/training_set',target_size=(64,64),batch_size=300,class_mode='categorical',color_mode=\"grayscale\")"
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  {
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   "text": [
    "Found 2250 images belonging to 9 classes.\n"
   ]
```

```
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  ],

  "source": [

   "x_test = test_datagen.flow_from_directory(r'C:\\Users\\schit\\Downloads\\conversation engine for deaf and dumb (1)\\Dataset\\test_set',target_size=(64,64),batch_size=300,class_mode='categorical',color_mode=\"grayscale\")"

  ]

 },

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  "source": [

   "from keras.models import Sequential\n",

   "from keras.layers import Dense\n",

   "from keras.layers import Convolution2D\n",

   "from keras.layers import MaxPooling2D\n",

   "from keras.layers import Dropout\n",

   "from keras.layers import Flatten"

  ]

 },

 {

  "cell_type": "code",

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 "id": "157e04e1",
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  "model = Sequential()"
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 "execution_count": 6,
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  "model.add(Convolution2D(32,(3,3),input_shape=(64,64,1), activation='relu'))"
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  "model.add(MaxPooling2D(pool_size=(2,2)))"
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 "cell_type": "code",
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  "model.add(Dense(units=512, activation = 'relu'))"
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  "model.add(Dense(units=9,  activation = 'softmax'))"
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  "model.compile(loss='categorical_crossentropy', optimizer = 'adam', metrics=['accuarcy'])"
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