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from keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.preprocessing import image
train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_r
ange=0.2,horizontal_flip=True)
test_datagen=ImageDataGenerator(rescale=1./255)

from google.colab import drive
drive.mount('/content/drive')

Mounted at /content/drive

!unzip Dataset.zip

unzip: cannot find or open Dataset.zip, Dataset.zip.zip or
Dataset.zip.ZIP.

x_train=train_datagen.flow_from_directory('/content/drive/MyDrive/
Dataset/Dataset/
training_set',target_size=(64,64),batch_size=300,class_mode='categoric
al',color_mode='grayscale')
x_test=test_datagen.flow_from_directory('/content/drive/MyDrive/Datase
t/Dataset/
test_set',target_size=(64,64),batch_size=300,class_mode='categorical',
color_mode='grayscale')

Found 15768 images belonging to 9 classes.
Found 2250 images belonging to 9 classes.

from keras.models import Sequential
from keras.layers import Dense
from keras.layers import Convolution2D
from keras.layers import MaxPooling2D
from keras.layers import Dropout
from keras.layers import Flatten

model=Sequential()

model.add(Convolution2D(32,
(3,3),input_shape=(64,64,1),activation='relu'))

model.add(MaxPooling2D(pool_size=(2,2)))

model.add(Flatten())

model.add(Dense(units=512,activation='relu'))
model.add(Dense(units=9,activation='Softmax'))

model.compile(loss='categorical_crossentropy',optimizer='adam',metrics
=['accuracy'])

model.fit_generator(x_train,steps_per_epoch=24,epochs=10,validation_da
ta=x_test,validation_steps=40)

```