Download the Data	umber	190701193
<pre>import numpyas np import tensorflowas tf</pre>		100707700
from tensorflow.kerasimport 1		
<pre>from tensorflow.kerasimport le from tensorflow.keras.modelsin import matplotlib.pyplotas ple import os</pre>	mport Sequential	
batch_size= 16		
mage Augmentati	วท	
layers.RandomRotation(0.1	ntal",input_shape=(180, 180, 3)),	
layers.RandomZoom(0.1),)		
os.listdir("C:\\Users\\Harini flowers']	\Flowers-Dataset")	
<pre>train_data= tf.keras.utils.ima "C:\\Users\\Harini\\Flowers</pre>	uge_dataset_from_directory(
<pre>validation_split=0.25, subset="training", seed=120, image_size=(180, 180),</pre>	Jalaari,	
batch_size=batch_size) Found 4317 files belonging to Using 3238 files for training.	. classes.	
<pre>val_data_set= tf.keras.utils.: "C:\\Users\\Harini\\Flowers-! validation_split=0.25,</pre>	mage_dataset_from_directory(
<pre>valuation_spit=0.25, subset="validation", seed=120, image_size=(180, 180), batch_size=batch_size)</pre>		
Found 4317 files belonging to Using 1079 files for validation	n.	
<pre>class_names= train_data.class plt.figure(figsize=(15, 15))</pre>		
<pre>for images, labels in train_da for iin range(6): ax = plt.subplot(3, 3, i+ plt.imshow(images[i].numpy</pre>	1) ().astype("uint8"))	
plt.title(class_names[labe	offlowers offlowers	
20 - 40 - 60 -	20 - 40 - 60 -	
60 - 80 - 100 -	60 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	
120 - 140 - 160 -	120 - 140 - 160 -	
0 50 100 150 flowers		
20 40	20 - 20 - 40 - 40 - 40 - 40 - 40 - 40 -	
60 - 80 - 100 -	60 - 80 - 100 -	
120 - 140	120 - 140 -	
0 50 100 150		
	a.map(lambda x, y: (normalization_layer(x), y))	
<pre>image_batch, labels_batch= ne: first_image= image_batch[0] print(np.min(first_image), np</pre>	<pre>xt(iter(dataset_normalized))</pre>	
Create Model		
Add Layers (Convolution, MaxPooling, F	latten,Dense-(Hidden Layers),Output)	
<pre>model = Sequential([data_aug,</pre>		
<pre>layers.Rescaling(1./255, in layers.Conv2D(16, 3, activa: layers.MaxPooling2D(), laye: 3,activation='relu'), layer: 3,activation='relu'),</pre>	rs.Conv2D(32, s.Conv2D(32,	
layers.MaxPooling2D(), laye: 3, activation='relu'), layers.MaxPooling2D(), laye: layers.Dense(128, activation	rs.Flatten(),	
Compile The Mode		
metrics=['accuracy']) Fit The Model	OFICESULOSSERVEY	
Fit The Model	s,validation_data=val_data_set,epochs=epochs)	
epochs=15 history = model.fit(train_data	y Validation _data=val_data	
history = model.fit(train_data Epoch1/15 203/203 [
history = model.fit(train_data) Epoch1/15 203/203 [Epoch2/15 203/203 [Epoch3/15 203/203 [0000+00 - val_accuracy: 1.0000 0000+00 - val_accuracy: 1.0000
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Description	33s 154ms/step - loss: 0.0000e+00 - accuracy: 1.0000 - val_loss: 0.00	000e+00 - val_accuracy: 1.0000
Description	38 156ms/step 10ss: 0.0000e+00 accuracy: 1.0000 val_loss: 0.000	000e+00 - val_accuracy: 1.0000

In [20]: img=image.load_img('C:\Users\Sai\\Flowers-Dataset\\flowers\\rose\\5172171681_5934378f08.jpg',target_size=(70,70)) img

Out[20]:

In[]: