

```
#VAISHNAVI SOLANKAR
#MY PROGRAM
from keras.preprocessing.image import load_img
from keras.preprocessing.image import img_to_array
from keras.applications.resnet50 import preprocess_input
from keras.applications.resnet50 import decode_predictions
from keras.applications.resnet50 import ResNet50
from keras.utils import plot_model
```

```
image=load_img('/th (3).jpg',target_size=(224,224))
```

```
image
```



```
image=img_to_array(image)
```

```
image
```

```
array([[135., 140., 146.],
       [133., 138., 144.],
       [130., 135., 141.],
       ...,
       [120., 125., 131.],
       [121., 126., 132.],
       [122., 127., 133.]],

       [[133., 138., 144.],
        [130., 135., 141.],
        [127., 132., 138.],
        ...,
        [120., 125., 131.],
        [121., 126., 132.],
        [122., 127., 133.]],

       [[130., 135., 141.],
        [127., 132., 138.],
        [125., 130., 136.],
        ...,
        [119., 124., 130.],
        [120., 125., 131.],
        [122., 127., 133.]],

       ...,

       [[147., 151., 162.],
        [144., 148., 159.],
        [142., 146., 157.],
        ...,
        [128., 132., 143.],
        [128., 132., 143.],
        [129., 133., 144.]],

       [[147., 151., 162.],
        [145., 149., 160.],
        [143., 147., 158.],
        ...,
        [128., 132., 143.],
        [129., 133., 144.],
        [130., 134., 145.]],

       [[147., 151., 162.],
        [145., 149., 160.],
        [143., 147., 158.],
        ...,
        [128., 132., 143.],
        [129., 133., 144.],
        [131., 135., 146.]])
```

```
#reshape data for the model
image=image.reshape((1,image.shape[0],image.shape[1],image.shape[2]))
```

```
image.shape
```

```
↗ (1, 224, 224, 3)
```

```
#prepare the image for the ResNet50 model
image=preprocess_input(image)
```

```
#load the model
model=ResNet50()
```

```
↗ Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/resnet/resnet50\_weights\_tf\_dim\_ordering\_tf\_kernels/102967424/102967424 0s 0us/step
```



```
plot_model(model)
```

⚠️ Out. Graph is too large for Cairo render backend. Scaling by 0.000474 to fit.









