```
from google.colab import drive
drive.mount('/content/drive')
Ery Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
# import tensorflow as tf
\hbox{\tt\# from tensorflow.keras.applications import ResNet50}\\
# from tensorflow.keras.layers import GlobalMaxPooling2D
# from tensorflow.keras.models import Sequential
from tensorflow.keras.preprocessing import image
img=image.load\_img('\content/drive/MyDrive/Data\ Science\ Project/Dressing\ Guide\ System/images/10000.jpg', target\_size=(224,224))
img_array=image.img_to_array(img)
img_array
⇒ array([[[255., 255., 255.],
               [255., 255., 255.],
[255., 255., 255.],
               [255., 255., 255.],
               [255., 255., 255.],
               [255., 255., 255.]],
              [[255., 255., 255.],
               [255., 255., 255.],
               [255., 255., 255.],
               [255., 255., 255.],
              [255., 255., 255.],
[255., 255., 255.]],
              [[255., 255., 255.],
               [255., 255., 255.],
               [255., 255., 255.],
               [255., 255., 255.],
              [255., 255., 255.],
[255., 255., 255.]],
              ...,
              [[255., 255., 255.], [255., 255.],
               [255., 255., 255.],
               [255., 255., 255.],
              [255., 255., 255.],
[255., 255., 255.]],
              [[255., 255., 255.],
              [255., 255., 255.],
[255., 255., 255.],
               [255., 255., 255.],
              [255., 255., 255.],
[255., 255., 255.]],
              [[255., 255., 255.],
              [255., 255., 255.],
[255., 255., 255.],
               [255., 255., 255.],
[255., 255., 255.],
               [255., 255., 255.]]], dtype=float32)
img_array.shape
→ (224, 224, 3)
import numpy as np
expanded_img_array=np.expand_dims(img_array,axis=0)
print(expanded_img_array.shape)
```

**→** (1, 224, 224, 3)

[[151.061 , 138.22101, 131.32 ], [151.061 , 138.22101, 131.32 ], [151.061 , 138.22101, 131.32 ],

[151.061 , 138.22101, 131.32 [151.061 , 138.22101, 131.32

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[151.061 , 138.22101, 131.32 ]],
              [[151.061 , 138.22101, 131.32 ],
               [151.061 , 138.22101, 131.32 [151.061 , 138.22101, 131.32
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               [151.061 , 138.22101, 131.32
               [151.061 , 138.22101, 131.32 ]],
              [[151.061 , 138.22101, 131.32 ],
               [151.061 , 138.22101, 131.32 ],
[151.061 , 138.22101, 131.32 ],
               [151.061 , 138.22101, 131.32 ],
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              [[151.061 , 138.22101, 131.32 ],
               [151.061 , 138.22101, 131.32 ],
[151.061 , 138.22101, 131.32 ],
               [151.061 , 138.22101, 131.32
               [151.061 , 138.22101, 131.32
               [151.061 , 138.22101, 131.32
                                                  ]],
              [151.061 , 138.22101, 131.32 ],
               [151.061 , 138.22101, 131.32
               [151.061 , 138.22101, 131.32 ],
[151.061 , 138.22101, 131.32 ]]]], dtype=float32)
model.predict(preprocessed_img)
                              -- 3s 3s/step
               0. , 4.4787416 , 0.43626547, ..., 3.1709626 , 6.93157 , 17.540562 ]], dtype=float32)
     array([[ 0.
model.predict(preprocessed_img).flatten()
                              — 0s 179ms/step
              0. , 4.4787416 , 0.43626547, ..., 3.1709626 , 6.93157 , 17.540562 ], dtype=float32)
model.predict(preprocessed_img).flatten().shape
                              -- 0s 144ms/step
     (2048,)
from numpy.linalg import norm
norm(model.predict(preprocessed_img).flatten())
                              -- 0s 160ms/step
     254.24007
\verb|model.predict(preprocessed_img).flatten()/norm(model.predict(preprocessed_img).flatten())|\\
                               - 0s 210ms/step
                               - 0s 205ms/step
     array([0.
                        , 0.01761619, 0.00171596, ..., 0.01247232, 0.02726388,
             0.06899212], dtype=float32)
np.sqrt(np.dot(model.predict(preprocessed_img).flatten(),model.predict(preprocessed_img).flatten()))
                             --- 0s 144ms/step
                              -- 0s 143ms/step
     254,24007
```

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Start coding or generate with AI.

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