Code and Output

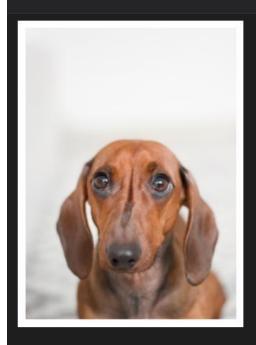
```
import tensorflow as tf
from tensorflow.keras.applications import VGG16
from tensorflow.keras.applications.vgg16 import preprocess input, decode predictions
from tensorflow.keras.preprocessing import image
import numpy as np
import matplotlib.pyplot as plt
                                                                             + Code + Markdown
model = VGG16(weights='imagenet')
img_path_cat = 'cat.jpg'
img_cat = image.load_img(img_path_cat, target_size=(224, 224))
img_array_cat = image.img_to_array(img_cat)
img_array_cat = np.expand_dims(img_array_cat, axis=0)
img_array_cat = preprocess_input(img_array_cat)
img_path_dog = 'dog.jpg'
img_dog = image.load_img(img_path_dog, target_size=(224, 224))
img_array_dog = image.img_to_array(img_dog)
img_array_dog = np.expand_dims(img_array_dog, axis=0)
img_array_dog = preprocess_input(img_array_dog)
predictions_cat = model.predict(img_array_cat)
```



tiger_cat (n02123159): 0.25
Egyptian_cat (n02124075): 0.19
tabby (n02123045): 0.15
computer_keyboard (n03085013): 0.03
screen (n04152593): 0.03

```
img_dog = image.load_img(img_path_dog)
plt.imshow(img_dog)
plt.axis('off')
plt.show()

for label, description, score in decoded_predictions_dog:
    print(f'{description} ({label}): {score:.2f}')
```



redbone (n02090379): 0.98 Rhodesian_ridgeback (n02087394): 0.01

Conclusion

The Architecture and parameter used in this network are capable of producing accuracy of 97.56% on Validation Data which is pretty good.