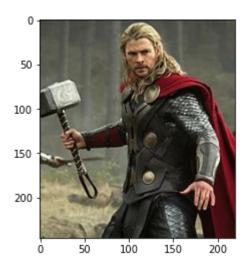
```
In [1]: |# Custom vision
         from azure.cognitiveservices.vision.customvision.training import CustomVisionTrainingClient
         from azure.cognitiveservices.vision.customvision.prediction import CustomVisionPredictionClient
         from msrest.authentication import ApiKeyCredentials
 In [2]: prediction key='7846d19dd63f40f491f77e0b64dbca12'
         resource id='/subscriptions/54c4256e-bb50-4fbd-895d-da32982a5dad/resourceGroups/ashish/providers/Microsoft.Cogni
 In [3]: |endpoint='https://iiiisafaf.cognitiveservices.azure.com/'
         check=ApiKeyCredentials(in headers={'Prediction-key':prediction key})
         prediction check=CustomVisionPredictionClient(endpoint,check)
In [18]: publish iteration name='Iteration1'
         # Testing
         project id="384cf96e-afb9-4683-b4da-83c2eeda1dc2"
         with open(r"C:\Users\Jaswanth Reddy\Desktop\Image dataset\api fruit vegetable\vegetable\0.jpg",'rb') as images:
             result=prediction check.classify image(project id, publish iteration name, images.read())
         for a in result.predictions:
             #print(a.tag name)
             #print(a.probability)
             print('name: ',a.tag name,'probability :',a.probability)
         name: vegetables probability: 0.9999999
         name: fruits probability: 1.6457321e-07
In [ ]: from azure.cognitiveservices.vision.computervision import CustomVisionClient
```

```
In [22]: import os
         import requests
         import matplotlib.pyplot as plt
         from io import BytesIO
         from PIL import Image
In [24]: subscription key="2c70fd24d8794a218d4a5d9cf1007f35"
In [26]:
         endpoint="https://wersf.cognitiveservices.azure.com/"
         analyze image=endpoint+"vision/v3.1/analyze?%s"
         image url="https://upload.wikimedia.org/wikipedia/en/thumb/3/3c/Chris Hemsworth as Thor.jpg/220px-Chris Hemswort
In [25]:
         headers={'Ocp-Apim-Subscription-Key':subscription key}
         params={'visualFeatures':'Categories,Description,Color'}
         data={'url':image url}
In [27]: response=requests.post(analyze image, headers=headers, params=params, json=data)
         analysis=response.json()
         print(analysis)
         {'categories': [{'name': 'others ', 'score': 0.00390625}, {'name': 'people ', 'score': 0.63671875, 'detail':
         {'celebrities': [{'name': 'Chris Hemsworth', 'confidence': 0.8439303040504456, 'faceRectangle': {'left': 95,
         'top': 27, 'width': 36, 'height': 36}}]}}], 'color': {'dominantColorForeground': 'Black', 'dominantColorBackgr
         ound': 'Grey', 'dominantColors': ['Grey', 'Black'], 'accentColor': '9E2D3B', 'isBwImg': False, 'isBWImg': False
         e}, 'description': {'tags': ['person', 'outdoor'], 'captions': [{'text': 'Chris Hemsworth in a garment holding
         a gun', 'confidence': 0.4867195188999176}]}, 'requestId': '31fdf8d4-ce19-4c26-b1b1-8ea3f961e226', 'metadata':
         {'height': 246, 'width': 220, 'format': 'Jpeg'}}
```

```
In [33]: img=Image.open(BytesIO(requests.get(image_url).content))
    plt.imshow(img)
```

Out[33]: <matplotlib.image.AxesImage at 0x21653277940>



```
In [34]: description=analysis['description']
print(description)
```

{'tags': ['person', 'outdoor'], 'captions': [{'text': 'Chris Hemsworth in a garment holding a gun', 'confidenc e': 0.4867195188999176}]}

```
In [35]: # thubnail
         headers={'Ocp-Apim-Subscription-Key':subscription key}
         params={'width':'50', 'height':'50', 'smartCropping':'true'}
         data={'url':image url}
In [37]: | analyze_image=endpoint+"vision/v3.1/generateThumbnail"
         response=requests.post(analyze image,headers=headers,params=params,json=data)
         result=Image.open(BytesIO(response.content))
In [39]: print(result)
         <PIL.JpegImagePlugin.JpegImageFile image mode=RGB size=50x50 at 0x21652A7FEE0>
In [40]:
         result.save("thor.png")
         result.show()
In [56]: # Local image
         analyze image=endpoint+"vision/v3.1/analyze"
         image url=r"C:\Users\Jaswanth Reddy\Pictures\Images downloaded\black widow.jpeg"
         image_converted=open(image_url, 'rb').read()
         headers={'Ocp-Apim-Subscription-Key':subscription_key,
                  'Content-Type':'application\ocet-stream'}
         params={'visualFeatures':'Categories,Description,Color'}
```

In [59]: response=requests.post(analyze_image,headers=headers,params=params,data=image_converted) analysis=response.json() image = Image.open(BytesIO(image_converted)) plt.imshow(image)

Out[59]: <matplotlib.image.AxesImage at 0x2165435f670>

