```
!pip uninstall --yes opencv-contrib-python opencv-python
!pip install opencv-contrib-python
     Found existing installation: opencv-contrib-python 4.7.0.68
     Uninstalling opencv-contrib-python-4.7.0.68:
       Successfully uninstalled opencv-contrib-python-4.7.0.68
              Skipping opency-python as it is not installed
     Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/public/simple/</a>
     Collecting opency-contrib-python
       Using cached opencv_contrib_python-4.7.0.68-cp37-abi3-manylinux_2_17_x86_64.manylinux2014_x86_64.whl
     Requirement already satisfied: numpy>=1.17.3 in /usr/local/lib/python3.8/dist-packages (from opencv-cor
     Installing collected packages: opencv-contrib-python
     Successfully installed opency-contrib-python-4.7.0.68
     WARNING: The following packages were previously imported in this runtime:
     You must restart the runtime in order to use newly installed versions.
      RESTART RUNTIME
from google.colab import drive
drive.mount('/content/drive')
     Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
import tensorflow as tf
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
import cv2
import os
import random
import warnings
warnings.filterwarnings("ignore")
 Saving notebook without code cell output... Notebook settings
print('Image(Train):',len(os.listdir('/content/drive/MyDrive/Car_detection_dataset/training_images')))
print('Image(Test):',len(os.listdir('/content/drive/MyDrive/Car_detection_dataset/testing_images')))
     Image(Train): 1001
     Image(Test): 175
Data=pd.read_csv('/content/drive/MyDrive/Car_detection_dataset/train_solution_bounding_boxes.csv')
Data.head()
                                                                        1
                 image
                              xmin
                                          ymin
                                                     xmax
                                                                 ymax
      0 vid 4 1000.jpg 281.259045 187.035071 327.727931 223.225547
      1 vid_4_10000.jpg
                         15.163531 187.035071 120.329957 236.430180
      2 vid_4_10040.jpg 239.192475 176.764801 361.968162 236.430180
      3 vid 4 10020.jpg 496.483358 172.363256 630.020260 231.539575
                         16.630970 186.546010 132.558611 238.386422
      4 vid_4_10060.jpg
print('Train data localization:',len(Data))
     Train data localization: 559
for i in Data.values:
  photo=plt.imread(f'/content/drive/MyDrive/Car\_detection\_dataset/training\_images/\{i[0]\}')
  plt.imshow(photo)
  print('Photo shape:',photo.shape)
  print('Name,xmin,ymin,xmax,ymax:',i)
  pt1=(int(i[1]),int(i[2]))
  pt2=(int(i[3]),int(i[4]))
  color=(255, 0, 0)
  thickness = 2
  cv2.rectangle(photo,pt1,pt2, color, thickness)
  plt.figure()
  plt.imshow(photo)
  break
```

Photo shape: (380, 676, 3) Name,xmin,ymin,xmax,ymax: ['vid_4_1000.jpg' 281.2590449 187.0350708 327.7279305 223.225547]

▼ Annotations (Check)

```
for a,i in enumerate(Data.values):
    img=plt.imread('/content/drive/MyDrive/Car_detection_dataset/training_images/'+i[0])
    print(img.shape)
    plt.figure()
    plt.imshow(img)
    xmin=int(i[1])
    ymin=int(i[2])

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plt.figure()
    plt.imshow(img)
    if a ==2:
        break
```

```
(380, 676, 3)
     (380, 676, 3)
     (380, 676, 3)
       50
      100
      150
      200
      250
      300
       350
                      200
                             300
                                    400
                                           500
                                                  600
        0
       50
      100
      150
      200
      250
      300
      350
                                                  600
                      200
                             300
                                    400
                                           500
        0
       50
      100
      150
      200
      250
 Saving notebook without code cell output... Notebook settings
cv2.setUseOptimized(True) # Optimeze
ss = cv2.ximgproc.segmentation.createSelectiveSearchSegmentation() # Selective search obje
im = cv2.imread('/content/drive/MyDrive/Car_detection_dataset/training_images/vid_4_1000.jpg')
im=cv2.resize(im,(224,224))
plt.figure()
plt.imshow(im)
ss.setBaseImage(im) # GÖrüntünün yüklendiği kısım
ss.switchToSelectiveSearchFast() # Selective Search süresini hızlandırmak için
rects = ss.process()
print('Shape:',im.shape)
print('possible bounty boxes:',len(rects))
for rect in rects:
  x, y, w, h = rect
  imOut=cv2.rectangle(im, (x, y), (x+w, y+h), (0, 255, 0), 1, cv2.LINE_AA)
plt.figure()
plt.imshow(imOut);
```

```
Shape: (224, 224, 3)
possible bounty boxes: 213
```

→ Selective serach crop the image iou>0.5 (Kullanımı)

Selective search

```
150
                                   200
#Iou and selective search
cv2.setUseOptimized(True)
ss = cv2.ximgproc.segmentation.createSelectiveSearchSegmentation()
def get_iou(bb1, bb2):
    assert bb1['x1'] < bb1['x2'] \#bb1
    assert bb1['y1'] < bb1['y2']
    assert bb2['x1'] < bb2['x2'] #bb2
    assert bb2['y1'] < bb2['y2'];
    x_{end} = max(bb1['x1'], bb2['x1'])
    y_{top} = max(bb1['y1'], bb2['y1'])
    x_{in} = min(bb1['x2'], bb2['x2'])
    y_bottom = min(bb1['y2'], bb2['y2'])
    if x_right < x_left or y_bottom < y_top:</pre>
      return 0.0
    intersection_area = (x_right - x_left) * (y_bottom - y_top)
    bb1_area = (bb1['x2'] - bb1['x1']) * (bb1['y2'] - bb1['y1'])
                                                           2['y1'])
 Saving notebook without code cell output... Notebook settings
                                                           - intersection_area)
    assert iou <= 1.0
    return iou
image_liste=[]
k=0
1=0
z=0 #Loading
for \ a \ in \ pd.read\_csv('/content/drive/MyDrive/Car\_detection\_dataset/train\_solution\_bounding\_boxes.csv'). values:
  Name,xmin,ymin,xmax,ymax=a
  bb1={ #gerçek bounty boxxes
             'x1':int(xmin),
             'y1':int(ymin),
             'x2':int(xmax),
             'y2':int(ymax)
            }
    img=cv2.imread('/content/drive/MyDrive/Car_detection_dataset/training_images/'+Name)
    ss.setBaseImage(img)
    ss.switchToSelectiveSearchFast()
    rects = ss.process()
    for i in rects:
      x, y, w, h = i # Selective bounty boxxes
      bb2={'x1':x,
           'y1':y,
          'x2':x+w,
      img1=img[bb2['y1']:bb2['y2'],bb2['x1']:bb2['x2']] # Crop img
      img1_shape=cv2.resize(img1,(224,224))
      if k<l:
            if 0.5<get_iou(bb1,bb2):</pre>
               image_liste.append([img1_shape,1])
               k+=1
      else:
        if 0.5<get iou(bb1,bb2):</pre>
          image_liste.append([img1_shape,1])
        else:
          image_liste.append([img1_shape,0])
          1+=1
  except Exception as e:
    print('hata var',e)
```

```
print(Name,z,len(rects))
  vid_4_9080.jpg 502 1331
     vid_4_9080.jpg 503 1331
     vid_4_920.jpg 504 1391
     vid_4_9200.jpg 505 1420
     vid_4_9220.jpg 506 1337
     vid_4_9240.jpg 507 1365
     vid_4_9260.jpg 508 1409
     vid_4_9260.jpg 509 1409
     vid_4_9280.jpg 510 1311
     vid_4_9280.jpg 511 1311
     vid_4_9300.jpg 512 1297
     vid_4_9300.jpg 513 1297
     vid_4_9320.jpg 514 1361
     vid_4_9320.jpg 515 1361
     vid_4_9340.jpg 516 1337
     vid_4_940.jpg 517 1315
     vid_4_940.jpg 518 1315
     vid_4_9420.jpg 519 1633
     vid_4_9460.jpg 520 1531
     vid_4_9440.jpg 521 1548
     vid_4_9500.jpg 522 1573
     vid_4_9520.jpg 523 1534
     vid_4_9520.jpg 524 1534
     vid_4_9540.jpg 525 1456
     vid_4_9540.jpg 526 1456
     vid_4_9560.jpg 527 1437
     vid_4_9560.jpg 528 1437
     vid_4_9560.jpg 529 1437
     vid_4_9580.jpg 530 1480
     vid_4_9580.jpg 531 1480
     vid_4_960.jpg 532 1169
     vid_4_9600.jpg 533 1586
vid_4_9600.jpg 534 1586
     vid_4_9640.jpg 535 1676
     vid_4_9640.jpg 536 1676
     vid_4_9660.jpg 537 1631
     vid_4_9620.jpg 538 1644
     vid 4 9620.ipg 539 1644
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     vid_4_9760.jpg 543 1537
     vid_4_9760.jpg 544 1537
     vid_4_9760.jpg 545 1537
     vid_4_9740.jpg 546 1599
     vid_4_9700.jpg 547 1630
     vid_4_9780.jpg 548 1477
     vid_4_9780.jpg 549 1477
     vid_4_980.jpg 550 1099
     vid_4_9800.jpg 551 1513
     vid_4_9800.jpg 552 1513
vid_4_9820.jpg 553 1386
     vid_4_9840.jpg 554 1565
     vid_4_9860.jpg 555 1497
     vid_4_9880.jpg 556 1450
     vid_4_9900.jpg 557 1499
     vid_4_9960.jpg 558 1380
     vid_4_9980.jpg 559 1379
len(image_liste)
     10581
data=[]
data_label=[]
for features,label in image_liste:
  data.append(features)
  data_label.append(label)
print('işlem başarılı')
     işlem başarılı
print('Fotograf sayısı:',len(data),'|Label sayısı:',len(data_label))
     Fotograf sayısı: 10581 | Label sayısı: 10581
i=random.randint(1,10583)
print('Class:',data_label[i])
print('Görüntü boyutu:',data[i].shape)
plt.imshow(data[i]);
```

```
Class: 0
     Görüntü boyutu: (224, 224, 3)
       25
       50
       75
      100
      125
      150
      175
      200
data=np.asarray(data)
data_label=np.asarray(data_label)
print('Araba görüntüsü yok:',len(data_label[data_label==0]),'|Araba görüntüsü var:',len(data_label[data_label==1]))
     Araba görüntüsü yok: 5291 |Araba görüntüsü var: 5290
data.shape
     (10581, 224, 224, 3)
data_label.shape
     (10581,)
from \ sklearn.model\_selection \ import \ train\_test\_split
x\_train, x\_val, y\_train, y\_val=train\_test\_split(data, data\_label, test\_size=0.33, \ random\_state=42)
 Saving notebook without code cell output... Notebook settings
print( y_train snape. ,y_train.snape)
print('y_val shape:',y_val.shape)
     x_train shape: (7089, 224, 224, 3)
     x_val shape: (3492, 224, 224, 3)
     y_train shape: (7089,)
     y_val shape: (3492,)
```

Model

base_model=tf.keras.applications.VGG16(include_top=False,input_shape=(224,224,3),weights='imagenet')

base_model.summary()

Model: "vgg16"

Layer (type)	Output Shape	Param #
input_1 (InputLayer)		0
block1_conv1 (Conv2D)	(None, 224, 224, 64)	1792
block1_conv2 (Conv2D)	(None, 224, 224, 64)	36928
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73856
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147584
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295168
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590080
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590080
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0
block4_conv1 (Conv2D)	(None, 28, 28, 512)	1180160
block4_conv2 (Conv2D)	(None, 28, 28, 512)	2359808

```
block4_conv3 (Conv2D)
                          (None, 28, 28, 512)
                                              2359808
    block4 pool (MaxPooling2D) (None, 14, 14, 512)
    block5_conv1 (Conv2D)
                          (None, 14, 14, 512)
                                              2359808
    block5 conv2 (Conv2D)
                          (None, 14, 14, 512)
                                              2359808
    block5_conv3 (Conv2D)
                                              2359808
                          (None, 14, 14, 512)
    block5_pool (MaxPooling2D) (None, 7, 7, 512)
    Total params: 14,714,688
    Trainable params: 14,714,688
   Non-trainable params: 0
model=tf.keras.Sequential()
model.add(base_model)
model.add(tf.keras.layers.GlobalAveragePooling2D())
model.add(tf.keras.layers.Dropout(0.5))
model.add(tf.keras.layers.Dense(1,activation='sigmoid'))
model.summary()
   Model: "sequential"
                          Output Shape
                                              Param #
    Layer (type)
                          (None, 7, 7, 512)
    vgg16 (Functional)
                                              14714688
    global_average_pooling2d (G (None, 512)
    lobalAveragePooling2D)
    dropout (Dropout)
                                              0
                          (None, 512)
                                              513
Saving notebook without code cell output... Notebook settings
    Total params: 14,715,201
    Trainable params: 14,715,201
   Non-trainable params: 0
base_model.trainable=False
for i,layer in enumerate(base_model.layers):
 print(i,layer.name,'-',layer.trainable)
   0 input 1 - False
   1 block1_conv1 - False
    2 block1 conv2 - False
   3 block1_pool - False
   4 block2_conv1 - False
   5 block2_conv2 - False
    6 block2_pool - False
    7 block3_conv1 - False
   8 block3_conv2 - False
    9 block3_conv3 - False
   10 block3_pool - False
   11 block4 conv1 - False
   12 block4 conv2 - False
   13 block4 conv3 - False
   14 block4_pool - False
   15 block5_conv1 - False
   16 block5_conv2 - False
   17 block5_conv3 - False
   18 block5_pool - False
model.compile(loss='binary_crossentropy',optimizer=tf.keras.optimizers.Adam(),metrics='accuracy')
hist=model.fit(x train.v train.epochs=epoch.validation data=(x val.v val))
   Epoch 1/4
    Epoch 3/4
                   222/222 [=
    Epoch 4/4
```

▼ Deneme

```
photo_path='/content/WhatsApp Image 2023-02-15 at 11.40.57 AM.jpeg'
deneme_img=cv2.imread(photo_path)
ss.setBaseImage(deneme_img)
ss.switchToSelectiveSearchFast()
rects1 = ss.process()
print('Fotoğraftaki muhtemel obje sayısı: ',len(rects1))
for i in rects1:
  x, y, w, h = i
  bb3={'x1':x,
        'y1':y,
        'x2':x+w
        'y2':y+h
  try:
    assert bb3['x1'] < bb3['x2']
    assert bb3['y1'] < bb3['y2']
    img_data=deneme_img[bb3['y1']:bb3['y2'],bb3['x1']:bb3['x2']]
    img_data=cv2.resize(img_data,(224,224))
    tahmin=model.predict(img_data.reshape(1,224,224,3))
    if tahmin[0]>0.5:
     car.append([bb3,tahmin[0]])
     pass
  except Exception as e:
    print('hata',e)
print('kaç adet class tahmini 1 olan muhtemel bounty box var:',len(car))
print('----')
deneme_img=cv2.imread(photo_path)
 Saving notebook without code cell output... Notebook settings X argmax(np.array(car)[:,1])][0]['y1'])
                                                       argmax(np.array(car)[:,1])][0]['y2'])
plt.figure()
plt.imshow(deneme_img)
cv2.rectangle(deneme_img,pt1,pt2,(255, 0, 0),2)
plt.title(f'Class\ numarası\ 1\ olup\ ihtimal\ oranı\ en\ yüksek\ bounty\ box\ score:\ %{car[np.argmax(np.array(car)[:,1])][1][0]*100}')
plt.imshow(deneme_img); """
     'car=[]\nphoto_path='/content/WhatsApp Image 2023-02-15 at 11.40.57 AM.jpeg'\ndeneme_img=cv2.imread(ph
     oto_path)\nss.setBaseImage(deneme_img)\nss.switchToSelectiveSearchFast()\nrects1 = ss.process()\nprint
     ('Fotoğraftaki muhtemel obje sayısı: ',len(rects1))\nfor i in rects1:\n x, y, w, h = i\n bb3={'x1':}
                 'y1':y,\n
                                                                   }\n try:\n
    x,\n
['x2']\n
                                 'x2':x+w,\n
                                                   'y2':y+h\n
                                                                                  assert bb3['x1'] < bb3
                assert bb3['y1'] < bb3['y2']\n
                                                  img_data=deneme_img[bb3['y1']:bb3['y2'],bb3['x1']:bb3['x
     2']]\n img_data=cv2.resize(img_data,(224,224))\n
                                                          tahmin=model.predict(img_data.reshape(1,224,22
                                                                                     pass\n except Excep
              if tahmin[0]>0.5:\n
                                       car.append([bb3,tahmin[0]])\n else:\n
     tion as e:\n print('hata',e)\nprint('kaç adet class tahmini 1 olan muhtemel bounty box var:',len(ca
     r))\nnrint('----
photo_path='/content/1.jpeg'
deneme_img=cv2.imread(photo_path)
ss.setBaseImage(deneme_img)
ss.switchToSelectiveSearchFast()
rects1 = ss.process()
print('Fotograftaki muhtemel obje sayısı: ',len(rects1))
for i in rects1:
  x, y, w, h = i
  bb3={'x1':x,
        'y1':y,
        'x2':x+w,
        'y2':y+h
     }
  try:
    assert bb3['x1'] < bb3['x2']
    assert bb3['y1'] < bb3['y2']
    img\_data = deneme\_img[bb3['y1']:bb3['y2'],bb3['x1']:bb3['x2']]
    img_data=cv2.resize(img_data,(224,224))
    tahmin=model.predict(img_data.reshape(1,224,224,3))
    if tahmin[0]>0.5:
      car.append([bb3,tahmin[0]])
    else:
     pass
  except Exception as e:
    print('hata',e)
print('kaç adet class tahmini 1 olan muhtemel bounty box var:',len(car))
```

```
print('-----')
deneme_img=cv2.imread(photo_path)
car[np.argmax(np.array(car)[:,1])][0]
pt1=(car[np.argmax(np.array(car)[:,1])][0]['x1'],car[np.argmax(np.array(car)[:,1])][0]['y1'])
pt2=(car[np.argmax(np.array(car)[:,1])][0]['x2'],car[np.argmax(np.array(car)[:,1])][0]['y2'])
plt.figure()
plt.imshow(deneme_img)
cv2.rectangle(deneme_img,pt1,pt2,(255, 0, 0),2)
plt.figure()
plt.title(f'Class numarasi 1 olup ihtimal orani en yüksek bounty box score: %{car[np.argmax(np.array(car)[:,1])][1][0]*100}')
plt.imshow(deneme_img);
```

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```
Fotoğraftaki muhtemel obje sayısı: 4268
 1/1 [======] - 1s 791ms/step
 1/1 [======= ] - 0s 28ms/step
 1/1 [======] - 0s 21ms/step
 1/1 [========= ] - 0s 20ms/step
 1/1 [======] - 0s 19ms/step
 1/1 [======] - 0s 21ms/step
 1/1 [=======] - 0s 20ms/step
 1/1 [======] - 0s 22ms/step
   1/1
 1/1 [======] - 0s 21ms/step
 1/1 [======= ] - Os 21ms/step
 1/1 [======= ] - 0s 22ms/step
 1/1 [======= ] - 0s 22ms/step
 1/1 [-----] - 0s 20ms/step
1/1 [-----] - 0s 22ms/step
 1/1 [======] - 0s 19ms/step
 1/1 [=======] - 0s 20ms/step
 1/1 [======] - 0s 19ms/step
 1/1 [======] - 0s 20ms/step
 1/1 [=======] - 0s 19ms/step
 1/1 [======= ] - 0s 19ms/step
 1/1 [=======] - 0s 22ms/step
 1/1 [======] - 0s 22ms/step
 1/1 [======] - 0s 22ms/step
 1/1 [======] - 0s 20ms/step
 1/1 [======] - 0s 22ms/step
 1/1 [======] - 0s 20ms/step
 1/1 [=======] - Os 19ms/step
 1/1 [======] - 0s 20ms/step
 1/1 [======= ] - 0s 21ms/step
 1/1 [======== ] - 0s 20ms/step
 1/1 [======] - 0s 19ms/step
Saving notebook without code cell output... Notebook settings
  1/1 [======] - 0s 20ms/step
 1/1 [=======] - 0s 22ms/step
 1/1 [=======] - 0s 20ms/step
 1/1 [======= ] - 0s 22ms/step
 1/1 [======] - 0s 28ms/step
 1/1 [======] - 0s 20ms/step
 1/1 [======] - 0s 22ms/step
 1/1 [======] - 0s 21ms/step
 1/1 [======] - 0s 24ms/step
 1/1 [=======] - Os 19ms/step
 1/1 [======= ] - Os 21ms/step
 1/1 [======] - 0s 19ms/step
 1/1 [======== ] - 0s 36ms/sten
 1/1 [======] - 0s 28ms/step
 1/1 [======] - 0s 40ms/step
   [======] - 0s 28ms/step
 1/1 [======] - 0s 45ms/step
    ======= 1 - 0s 30ms/step
 1/1
 1/1 [======= ] - 0s 27ms/step
 1/1 [======= ] - 0s 27ms/step
 1/1 [======= ] - 0s 39ms/step
 1/1 [=======] - 0s 28ms/step
 1/1 [======= ] - 0s 29ms/step
 1/1 [======] - 0s 29ms/step
 1/1 [======] - 0s 28ms/step
 1/1 [======] - 0s 30ms/step
 1/1 [=======] - 0s 33ms/step
 1/1 [=======] - 0s 29ms/step
 1/1 [======= ] - 0s 28ms/step
 1/1 [======= ] - 0s 29ms/step
 1/1 [======= ] - 0s 29ms/step
 1/1 [=======] - 0s 32ms/step
 1/1 [======= ] - 0s 31ms/step
 1/1 [======] - 0s 29ms/step
 1/1 [======= ] - 0s 29ms/step
 1/1 [=======] - 0s 32ms/step
 1/1 [======] - 0s 27ms/step
 1/1 [======] - 0s 31ms/step
   [======] - Os 28ms/step
 1/1
 1/1 [======] - 0s 31ms/step
 1/1 [======] - 0s 28ms/step
```

```
car=[]
photo_path='/content/2.jpeg'
deneme_img=cv2.imread(photo_path)
ss.setBaseImage(deneme_img)
ss.switchToSelectiveSearchFast()
rects1 = ss.process()
print('Fotoğraftaki muhtemel obje sayısı: ',len(rects1))
for i in rects1:
 x, y, w, h = i
  bb3={'x1':x,
        'y1':y,
       'x2':x+w,
        'y2':y+h
     }
  try:
   assert bb3['x1'] < bb3['x2']
    assert bb3['y1'] < bb3['y2']
    img_data=deneme_img[bb3['y1']:bb3['y2'],bb3['x1']:bb3['x2']]
   img_data=cv2.resize(img_data,(224,224))
    tahmin=model.predict(img_data.reshape(1,224,224,3))
    if tahmin[0]>0.5:
     car.append([bb3,tahmin[0]])
    else:
     pass
  except Exception as e:
   print('hata',e)
print('kaç adet class tahmini 1 olan muhtemel bounty box var:',len(car))
deneme_img=cv2.imread(photo_path)
car[np.argmax(np.array(car)[:,1])][0]
pt1=(car[np.argmax(np.array(car)[:,1])][0]['x1'],car[np.argmax(np.array(car)[:,1])][0]['y1'])
pt2 = (car[np.argmax(np.array(car)[:,1])][0]['x2'], car[np.argmax(np.array(car)[:,1])][0]['y2'])
plt.figure()
plt.imshow(deneme img)
cv2.rectangle(deneme img,pt1,pt2,(255, 0, 0),2)
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                                                      k bounty box score: %{car[np.argmax(np.array(car)[:,1])][1][0]*100}')
pit.imsnow(deneme_img);
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car=[]
photo_path='/content/3.jpeg'
deneme_img=cv2.imread(photo_path)
ss.setBaseImage(deneme_img)
ss.switchToSelectiveSearchFast()
rects1 = ss.process()
print('Fotoğraftaki muhtemel obje sayısı: ',len(rects1))
for i in rects1:
 x, y, w, h = i
  bb3={'x1':x,
        'y1':y,
       'x2':x+w,
        'y2':y+h
     }
  try:
   assert bb3['x1'] < bb3['x2']
    assert bb3['y1'] < bb3['y2']
    img_data=deneme_img[bb3['y1']:bb3['y2'],bb3['x1']:bb3['x2']]
   img_data=cv2.resize(img_data,(224,224))
    tahmin=model.predict(img_data.reshape(1,224,224,3))
    if tahmin[0]>0.5:
     car.append([bb3,tahmin[0]])
    else:
     pass
  except Exception as e:
   print('hata',e)
print('kaç adet class tahmini 1 olan muhtemel bounty box var:',len(car))
deneme_img=cv2.imread(photo_path)
car[np.argmax(np.array(car)[:,1])][0]
pt1=(car[np.argmax(np.array(car)[:,1])][0]['x1'],car[np.argmax(np.array(car)[:,1])][0]['y1'])
pt2 = (car[np.argmax(np.array(car)[:,1])][0]['x2'], car[np.argmax(np.array(car)[:,1])][0]['y2'])
plt.figure()
plt.imshow(deneme img)
cv2.rectangle(deneme img,pt1,pt2,(255, 0, 0),2)
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                                                      k bounty box score: %{car[np.argmax(np.array(car)[:,1])][1][0]*100}')
pit.imsnow(deneme_img);
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```
car=[]
photo_path='/content/4.jpeg'
deneme_img=cv2.imread(photo_path)
ss.setBaseImage(deneme_img)
ss.switchToSelectiveSearchFast()
rects1 = ss.process()
print('Fotoğraftaki muhtemel obje sayısı: ',len(rects1))
for i in rects1:
 x, y, w, h = i
  bb3={'x1':x,
        'y1':y,
       'x2':x+w,
        'y2':y+h
     }
  try:
   assert bb3['x1'] < bb3['x2']
    assert bb3['y1'] < bb3['y2']
    img_data=deneme_img[bb3['y1']:bb3['y2'],bb3['x1']:bb3['x2']]
   img_data=cv2.resize(img_data,(224,224))
    tahmin=model.predict(img_data.reshape(1,224,224,3))
    if tahmin[0]>0.5:
     car.append([bb3,tahmin[0]])
    else:
     pass
  except Exception as e:
   print('hata',e)
print('kaç adet class tahmini 1 olan muhtemel bounty box var:',len(car))
deneme_img=cv2.imread(photo_path)
car[np.argmax(np.array(car)[:,1])][0]
pt1=(car[np.argmax(np.array(car)[:,1])][0]['x1'],car[np.argmax(np.array(car)[:,1])][0]['y1'])
pt2 = (car[np.argmax(np.array(car)[:,1])][0]['x2'], car[np.argmax(np.array(car)[:,1])][0]['y2'])
plt.figure()
plt.imshow(deneme img)
cv2.rectangle(deneme img,pt1,pt2,(255, 0, 0),2)
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                                                      k bounty box score: %{car[np.argmax(np.array(car)[:,1])][1][0]*100}')
pit.imsnow(deneme_img);
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     -----1 - 0c 20mc/c+
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    42ms
20ms
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    | Solution 
                                            step
step
ox var: 349
          :ep
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1/1	[]	-	0s	34ms/step
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1/1	[========]	-	0s	36ms/step
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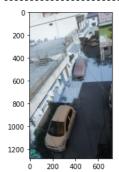
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 [======] - Os 30ms/step
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1/1 [======] - 0s 58ms/step
1/1 [======] - 0s 53ms/step
1/1 [======= ] - 0s 46ms/step
1/1 [=======] - 0s 51ms/step
1/1 [======] - 0s 40ms/step
  :
=======] - 0s 37ms/step
1/1
1/1 [======] - 0s 37ms/step
1/1 [======] - 0s 53ms/step
 [======] - 0s 49ms/step
1/1 [======] - 0s 38ms/step
1/1 [======] - 0s 28ms/step
1/1 [=======] - 0s 29ms/step
1/1 [======] - Os 39ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 27ms/step
1/1 [=======] - 0s 26ms/step
1/1 [=======] - 0s 32ms/step
 [======] - 0s 27ms/step
1/1 [======] - 0s 28ms/step
```

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1/1 [======= ] - 0s 39ms/step
 [======] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 27ms/step
1/1 [======] - 0s 34ms/step
 [======] - Os 27ms/step
1/1 [======] - 0s 26ms/step
1/1 [======] - 0s 27ms/step
1/1 [======= ] - 0s 34ms/step
1/1 [=======] - 0s 48ms/step
1/1 [=======] - 0s 39ms/step
1/1 [======= ] - 0s 33ms/sten
1/1 [======== ] - Os 33ms/step
1/1 [======] - 0s 42ms/step
1/1
 1/1 [======] - 0s 33ms/step
 [======] - Os 33ms/step
1/1 [======] - 0s 34ms/step
1/1 [=======] - 0s 34ms/step
1/1 [======] - 0s 37ms/step
 [======= 1 - 0s 33ms/step
1/1
1/1 [======] - 0s 37ms/step
1/1 [======] - 0s 33ms/step
 [======] - 0s 35ms/step
1/1
1/1 [======] - 0s 35ms/step
  1/1 [=======] - 0s 34ms/step
1/1 [======] - 0s 30ms/step
1/1 [======= ] - 0s 30ms/sten
1/1 [=======] - 0s 30ms/step
1/1 [======] - 0s 35ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 28ms/step
1/1 [=======] - 0s 30ms/step
1/1 [======= ] - 0s 32ms/step
1/1 [======= ] - Os 31ms/step
1/1 [======] - 0s 36ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 34ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 37ms/step
[======] - Os 29ms/step
1/1
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 33ms/step
1/1 [======] - 0s 37ms/step
1/1 [======] - 0s 33ms/step
1/1 [======] - 0s 34ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 28ms/step
1/1 [========= ] - 0s 34ms/step
[======] - 0s 27ms/step
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1/1 [======] - 0s 30ms/step
1/1 [======] - 0s 27ms/step
1/1 [======] - 0s 31ms/step
1/1 [======] - 0s 27ms/step
1/1 [======= ] - 0s 37ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======] - 0s 29ms/step
1/1 [=======] - 0s 31ms/step
 [======] - 0s 27ms/step
1/1 [======] - 0s 27ms/step
1/1 [======] - Os 22ms/step
1/1 [======] - 0s 27ms/step
1/1 [======] - 0s 27ms/step
1/1 [========= ] - 0s 29ms/step
1/1 [======] - 0s 28ms/step
1/1 [======] - 0s 43ms/step
1/1 [======] - 0s 29ms/step
1/1 [======] - 0s 32ms/step
 [======] - 0s 34ms/step
 [======] - 0s 28ms/step
```

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-----] - 0s 28ms/step
1/1 [======] - 0s 29ms/step
 [======] - 0s 28ms/step
1/1 [=======] - 0s 26ms/step
 [======] - Os 24ms/step
1/1 [=======] - 0s 26ms/step
1/1 [======] - 0s 31ms/step
1/1 [=======] - 0s 22ms/step
1/1 [======] - 0s 33ms/step
1/1 [======== ] - 0s 38ms/sten
[======] - 0s 39ms/step
1/1
 [======] - 0s 62ms/step
1/1
1/1
 [======] - 0s 66ms/step
1/1 [======] - 0s 34ms/step
1/1 [======= ] - 0s 36ms/step
1/1 [========= ] - Os 44ms/step
1/1 [======= ] - 0s 41ms/step
1/1 [======] - 0s 32ms/step
1/1 [======] - 0s 28ms/step
 [======] - 0s 30ms/step
  ======] - 0s 44ms/step
1/1 [======] - 0s 72ms/step
1/1 [======] - 0s 52ms/step
1/1 [======= ] - 0s 36ms/step
1/1 [======] - 0s 47ms/step
 [======] - 0s 62ms/step
1/1
1/1 [======] - 0s 38ms/step
1/1 [======] - 0s 46ms/step
1/1 [======] - 0s 50ms/step
1/1 [=======] - 0s 46ms/step
1/1 [======] - Os 59ms/step
 1/1
[======] - 0s 35ms/step
1/1
1/1 [======] - 0s 67ms/step
1/1
 [======] - 0s 52ms/step
1/1 [======] - 0s 49ms/step
1/1 [======] - 0s 71ms/step
1/1 [======] - 0s 64ms/step
1/1 [======] - 0s 52ms/step
 1/1
1/1 [======] - 0s 33ms/step
1/1 [======] - 0s 33ms/step
 [======] - 0s 47ms/step
1/1 [======] - 0s 42ms/step
 [======] - 0s 38ms/step
1/1
1/1 [======] - 0s 38ms/step
1/1 [======] - 0s 29ms/step
1/1 [======= ] - 0s 28ms/sten
1/1 [======== ] - 0s 31ms/step
1/1 [======] - 0s 29ms/step
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 [======] - 0s 29ms/step
1/1 [======] - 0s 28ms/step
 [======] - 0s 30ms/step
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1/1 [======= ] - 0s 28ms/step
1/1 [======] - 0s 36ms/step
1/1 [======] - 0s 28ms/step
1/1 [======== ] - 0s 27ms/step
1/1 [======= ] - 0s 29ms/step
1/1 [======= ] - 0s 29ms/step
 [======] - 0s 28ms/step
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1/1 [=======] - 0s 29ms/step
1/1 [=======] - 0s 27ms/step
1/1 [=======] - 0s 40ms/step
1/1 [======] - 0s 28ms/step
1/1 [======= ] - 0s 29ms/sten
1/1
 [======] - 0s 27ms/step
1/1 [======] - 0s 34ms/step
1/1 [======] - 0s 30ms/step
1/1 [=======] - 0s 30ms/step
1/1
 1/1 [======] - 0s 27ms/step
1/1 [=======] - 0s 28ms/step
```

```
======] - Us 3&ms/step
   [======] - Os 27ms/step
    1/1
     1/1
 [======] - 0s 29ms/step
 [======] - 0s 33ms/step
1/1
1/1
 [======] - Os 33ms/step
1/1
  [======] - 0s 33ms/step
1/1
 [======] - 0s 30ms/step
1/1
 [======] - 0s 33ms/step
1/1
 [======] - Os 29ms/step
                 - 0s 27ms/step
1/1
 [======] - Os 30ms/step
1/1
1/1 [======= ] - 0s 31ms/step
 [======] - 0s 29ms/step
1/1
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 [======] - 0s 31ms/step
1/1 [======] - 0s 28ms/step
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 [======] - 0s 32ms/step
 [======] - 0s 27ms/step
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 [======] - Os 38ms/step
1/1 [======] - 0s 26ms/step
 [======] - 0s 28ms/step
1/1
 [======] - 0s 28ms/step
1/1
1/1
 [======] - Os 31ms/step
 [======] - Os 27ms/step
1/1
1/1
 [======] - 0s 38ms/step
1/1
 [======] - 0s 28ms/step
1/1
  [======] - 0s 28ms/step
1/1 [======] - 0s 27ms/step
1/1 [======] - 0s 28ms/step
kaç adet class tahmini 1 olan muhtemel bounty box var: 522
```



Class numarası 1 olup ihtimal oranı en yüksek bounty box score: %99.98654127120972

