

```
!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
WARNING: Skipping opencv-python as it is not installed.
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Collecting opencv-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-contrib-python)
Installing collected packages: opencv-contrib-python
Successfully installed opencv-contrib-python-4.7.0.68
WARNING: The following packages were previously imported in this runtime:
[cv2]
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")
```

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```
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()
```

	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
4	vid_4_10060.jpg	16.630970	186.546010	132.558611	238.386422

```
print('Train data localization:',len(Data))
```

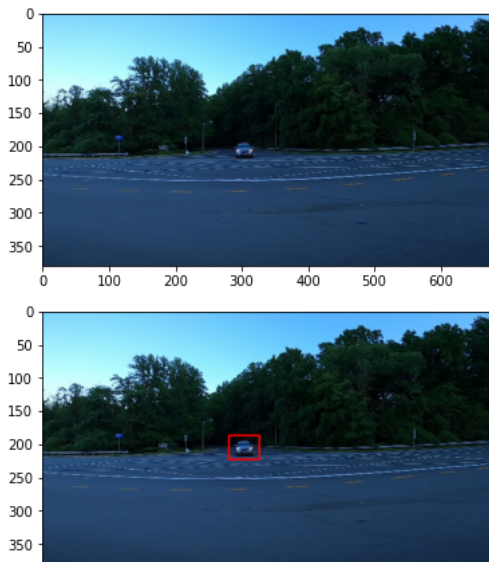
```
Train data localization: 559
```

```

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]



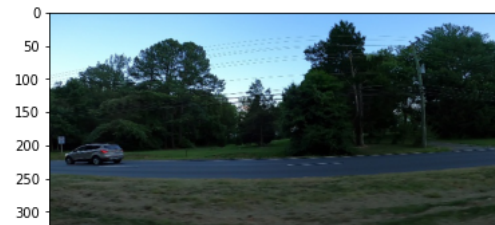
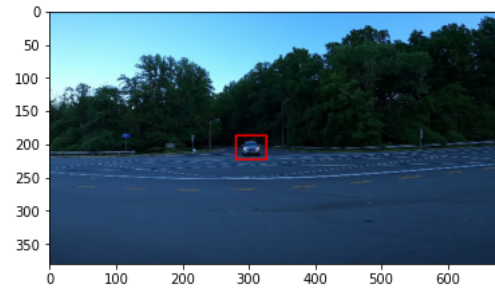
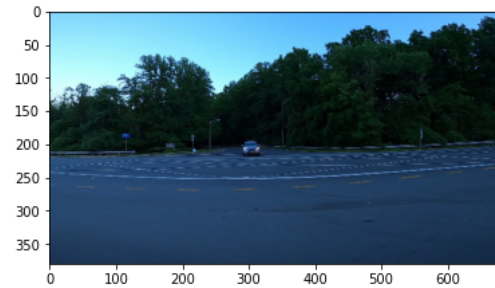
▼ Annotations (Check)

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

```
(380, 676, 3)
(380, 676, 3)
(380, 676, 3)
```

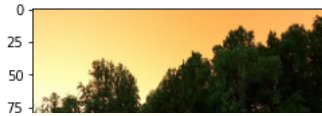


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```
cv2.setUseOptimized(True) # Optimize
ss = cv2.ximgproc.segmentation.createSelectiveSearchSegmentation() # Selective search obje
150
im = cv2.imread('/content/drive/MyDrive/Car_detection_dataset/training_images/vid_4_1000.jpg')
im=cv2.resize(im,(224,224))
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 search crop the image iou>0.5 (Kullanımı)

▼ Selective search

```

0    50    100    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_left = max(bb1['x1'], bb2['x1'])
    y_top = max(bb1['y1'], bb2['y1'])
    x_right = min(bb1['x2'], bb2['x2'])
    y_bottom = min(bb1['y2'], bb2['y2'])

    if x_right < x_left or y_bottom < y_top:
        return 0.0
    intersection_area = (x_right - x_left) * (y_bottom - y_top)
    bb1_area = (bb1['x2'] - bb1['x1']) * (bb1['y2'] - bb1['y1'])
    bb2_area = (bb2['x2'] - bb2['x1']) * (bb2['y2'] - bb2['y1'])
    iou = intersection_area / ((bb1_area + bb2_area) - intersection_area)

    assert iou <= 1.0
    return iou

image_liste=[]
k=0
l=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)
    }
    try:
        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,
                'y2':y+h
            }
            img1=img[bb2['y1']:bb2['y2'],bb2['x1']:bb2['x2']] # Crop img
            img1_shape=cv2.resize(img1,(224,224))
            if k<1:
                if 0.5<get_iou(bb1,bb2):
                    image_liste.append([img1_shape,1])
                    k+=1
            else:
                if 0.5<get_iou(bb1,bb2):
                    image_liste.append([img1_shape,1])
                    k+=1
            else:
                image_liste.append([img1_shape,0])
                l+=1
    except Exception as e:
        print('hata var',e)

```

```

z+=1
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.jpg 539 1644

```

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```

vid_4_9720.jpg 542 1523
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('Fotoğraf sayısı:',len(data),'|Label sayısı:',len(data_label))
```

```
Fotoğraf sayısı: 10581 |Label sayısı: 10581
```

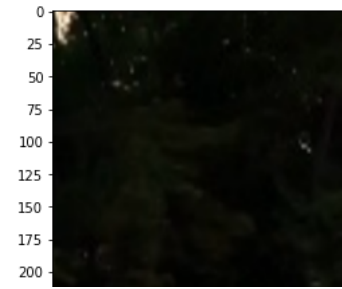
```

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)



```
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)
```

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```
print('x_train shape:',x_train.shape)
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)	[(None, 224, 224, 3)]	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)      0
block5_conv1 (Conv2D)      (None, 14, 14, 512)      2359808
block5_conv2 (Conv2D)      (None, 14, 14, 512)      2359808
block5_conv3 (Conv2D)      (None, 14, 14, 512)      2359808
block5_pool (MaxPooling2D) (None, 7, 7, 512)        0

=====
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"

Layer (type)	Output Shape	Param #
vgg16 (Functional)	(None, 7, 7, 512)	14714688
global_average_pooling2d (GlobalAveragePooling2D)	(None, 512)	0
dropout (Dropout)	(None, 512)	0
		513

=====

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')
```

```
epoch=4
hist=model.fit(x_train,y_train,epochs=epoch,validation_data=(x_val,y_val))
```

```
Epoch 1/4
222/222 [=====] - 62s 230ms/step - loss: 0.7824 - accuracy: 0.7945 - val_loss: 0.1749 - val_accuracy: 0.91
Epoch 2/4
222/222 [=====] - 48s 214ms/step - loss: 0.2738 - accuracy: 0.9217 - val_loss: 0.1456 - val_accuracy: 0.91
Epoch 3/4
222/222 [=====] - 40s 182ms/step - loss: 0.2114 - accuracy: 0.9427 - val_loss: 0.1378 - val_accuracy: 0.91
Epoch 4/4
222/222 [=====] - 48s 214ms/step - loss: 0.1781 - accuracy: 0.9477 - val_loss: 0.1199 - val_accuracy: 0.91
```

▼ Deneme

```

"""car=[]
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]])
    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)
plt.figure()
plt.imshow(deneme_img)
cv2.rectangle(deneme_img,pt1,pt2,(255, 0, 0),2)
plt.figure()
plt.title('Class numarası 1 olup ihtimal oranı en yüksek bounty box score: %f'%(car[np.argmax(np.array(car)[: ,1])][0][0]*100))
plt.imshow(deneme_img); """

```

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np.argmax(np.array(car)[: ,1])][0][1])
np.argmax(np.array(car)[: ,1])][0][2])

```

```

'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':
x,\n        'y1':y,\n        'x2':x+w,\n        'y2':y+h\n    }\n    try:\n        assert bb3['x1'] < bb3
['x2']\n        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
4,3))\n        if tahmin[0]>0.5:\n            car.append([bb3,tahmin[0]])\n        else:\n            pass\n    except Excep
tion as e:\n        print('hata',e)\nprint('kaç adet class tahmini 1 olan muhtemel bounty box var:',len(ca
r))\nprint('-----')\ndeneme_img=cv

```

```

car=[]
photo_path='/content/1.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))

```



```
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 numarası 1 olup ihtimal oranı 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 21ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 19ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 22ms/step
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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 22ms/step
1/1 [=====] - 0s 19ms/step
1/1 [=====] - 0s 20ms/step
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1/1 [=====] - 0s 22ms/step
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1/1 [=====] - 0s 22ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 19ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 21ms/step
1/1 [=====] - 0s 20ms/step
1/1 [=====] - 0s 19ms/step
```

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```
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
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1/1 [=====] - 0s 32ms/sten
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))
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)

Saving notebook without code cell output... Notebook settings ✕
k bounty box score: %{car[np.argmax(np.array(car)[: ,1])][1][0]*100}')
plt.imshow(deneme_img);

```

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1/1 [=====] - 0s 19ms/sten
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))
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)

Saving notebook without code cell output... Notebook settings X
k bounty box score: %{car[np.argmax(np.array(car)[: ,1])][1][0]*100}')
plt.imshow(deneme_img);

```

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```

1/1 [=====] - 0s 29ms/sten
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))
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)

Saving notebook without code cell output... Notebook settings ✕
k bounty box score: %{car[np.argmax(np.array(car)[: ,1])][1][0]*100}')
plt.imshow(deneme_img);

```

Fotoğraftaki muhtemel obje sayısı: 4238

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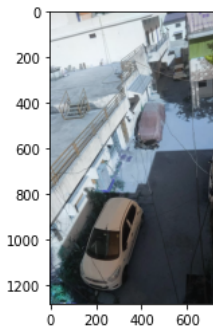
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```

kaç adet class tahmini 1 olan muhtemel bounty box var: 522



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

