

```
In [2]: !pip install torchvision==0.14
```

Collecting torchvision==0.14

Downloading torchvision-0.14.0-cp310-cp310-win_amd64.whl.metadata (11 kB)

Requirement already satisfied: typing-extensions in c:\users\ery\appdata\roaming\python\python310\site-packages (from torchvision==0.14) (4.13.0)

Requirement already satisfied: numpy in c:\users\ery\appdata\roaming\python\python310\site-packages (from torchvision==0.14) (1.24.4)

Requirement already satisfied: requests in c:\users\ery\appdata\roaming\python\python310\site-packages (from torchvision==0.14) (2.32.3)

Collecting torch==1.13.0 (from torchvision==0.14)

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Requirement already satisfied: pillow!=8.3.*,>=5.3.0 in e:\anaconda\envs\cpe313_cenv\lib\site-packages (from torchvision==0.14) (11.1.0)

Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\ery\appdata\roaming\python\python310\site-packages (from requests->torchvision==0.14) (3.4.1)

Requirement already satisfied: idna<4,>=2.5 in e:\anaconda\envs\cpe313_cenv\lib\site-packages (from requests->torchvision==0.14) (3.7)

Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\ery\appdata\roaming\python\python310\site-packages (from requests->torchvision==0.14) (2.3.0)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\ery\appdata\roaming\python\python310\site-packages (from requests->torchvision==0.14) (2025.1.31)

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Installing collected packages: torch, torchvision
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  Uninstalling torch-1.13.1:
    Successfully uninstalled torch-1.13.1
Attempting uninstall: torchvision
  Found existing installation: torchvision 0.20.1
  Uninstalling torchvision-0.20.1:
    Successfully uninstalled torchvision-0.20.1
Successfully installed torch-1.13.0 torchvision-0.14.0
WARNING: Ignoring invalid distribution -oogle-auth-oauthlib (e:\anaconda\envs\cpe313_cenv\lib\site-packages)
WARNING: Ignoring invalid distribution -umpy (e:\anaconda\envs\cpe313_cenv\lib\site-packages)
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You can safely remove it manually.
WARNING: Ignoring invalid distribution -oogle-auth-oauthlib (e:\anaconda\envs\cpe313_cenv\lib\site-packages)
WARNING: Ignoring invalid distribution -umpy (e:\anaconda\envs\cpe313_cenv\lib\site-packages)
ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.
torchaudio 2.5.1 requires torch==2.5.1, but you have torch 1.13.0 which is incompatible.

[notice] A new release of pip is available: 25.0.1 -> 25.1.1
[notice] To update, run: python.exe -m pip install --upgrade pip

```

```
In [12]: from ultralytics import RTDETR
```

```
In [13]: import cv2
         print(cv2.__version__)
```

```
4.8.0
```

```
In [1]: import torch
```

```
In [2]: torch.__version__
```

```
Out[2]: '2.5.1+cu121'
```

```
In [3]: torch.cuda.is_available()
```

```
Out[3]: True
```

```
In [21]: import cv2
         from ultralytics import RTDETR
```

```
model = RTDETR(r'D:\ery\School\Jupyter Notebooks\runs\detect\RT-DETR_model\weights\
model = model.to('cuda')
model.info()

input_video_path = r'D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4'
output_video_path = r'D:\ery\School\Jupyter Notebooks\datasets\sample_vid_output.mp

cap = cv2.VideoCapture(input_video_path)
fps = int(cap.get(cv2.CAP_PROP_FPS))
width = int(cap.get(cv2.CAP_PROP_FRAME_WIDTH))
height = int(cap.get(cv2.CAP_PROP_FRAME_HEIGHT))
cap.release()

fourcc = cv2.VideoWriter_fourcc(*'mp4v') # or use 'avc1' for H.264 codec
out = cv2.VideoWriter(output_video_path, fourcc, fps, (width, height))

results = model(input_video_path, stream=True)

window_name = "RT-DETR Prediction"
cv2.namedWindow(window_name, cv2.WINDOW_NORMAL)
cv2.resizeWindow(window_name, 800, 600)

for result in results:
    frame = result.plot()

    out.write(frame)

    cv2.imshow(window_name, frame)

    if cv2.waitKey(1) == ord('q'):
        break

out.release()
cv2.destroyAllWindows()

print(f"Video saved to: {output_video_path}")
```


rt-detr-l summary: 457 layers, 32,820,461 parameters, 0 gradients, 108.0 GFLOPs

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x640 42 cars, 7 trucks, 130.9ms
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video 1/1 (frame 3/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 41 cars, 6 trucks, 59.1ms
video 1/1 (frame 4/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 44 cars, 7 trucks, 54.6ms
video 1/1 (frame 5/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 48 cars, 4 trucks, 57.3ms
video 1/1 (frame 6/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 46 cars, 5 trucks, 60.0ms
video 1/1 (frame 7/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 42 cars, 5 trucks, 56.8ms
video 1/1 (frame 8/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 44 cars, 7 trucks, 57.3ms
video 1/1 (frame 9/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 49 cars, 8 trucks, 61.1ms
video 1/1 (frame 10/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 42 cars, 6 trucks, 56.3ms
video 1/1 (frame 11/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 52 cars, 4 trucks, 70.1ms
video 1/1 (frame 12/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 42 cars, 7 trucks, 71.8ms
video 1/1 (frame 13/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 7 trucks, 79.2ms
video 1/1 (frame 14/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 8 trucks, 72.4ms
video 1/1 (frame 15/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 8 trucks, 72.4ms
video 1/1 (frame 16/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 39 cars, 8 trucks, 74.7ms
video 1/1 (frame 17/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 42 cars, 5 trucks, 75.4ms
video 1/1 (frame 18/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 43 cars, 6 trucks, 153.1ms
video 1/1 (frame 19/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 43 cars, 7 trucks, 121.1ms
video 1/1 (frame 20/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 6 trucks, 60.9ms
video 1/1 (frame 21/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 7 trucks, 61.2ms
video 1/1 (frame 22/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 38 cars, 7 trucks, 60.5ms
video 1/1 (frame 23/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 6 trucks, 64.0ms
video 1/1 (frame 24/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 7 trucks, 61.5ms
video 1/1 (frame 25/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 35 cars, 9 trucks, 59.3ms
video 1/1 (frame 26/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 6 trucks, 60.7ms
video 1/1 (frame 27/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 34 cars, 8 trucks, 60.4ms

video 1/1 (frame 28/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 31 cars, 7 trucks, 130.8ms
video 1/1 (frame 29/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 32 cars, 8 trucks, 124.0ms
video 1/1 (frame 30/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 32 cars, 8 trucks, 61.2ms
video 1/1 (frame 31/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 33 cars, 6 trucks, 57.1ms
video 1/1 (frame 32/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 38 cars, 6 trucks, 57.2ms
video 1/1 (frame 33/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 30 cars, 7 trucks, 55.2ms
video 1/1 (frame 34/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 34 cars, 7 trucks, 53.4ms
video 1/1 (frame 35/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 7 trucks, 52.6ms
video 1/1 (frame 36/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 30 cars, 7 trucks, 61.1ms
video 1/1 (frame 37/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 30 cars, 8 trucks, 53.8ms
video 1/1 (frame 38/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 31 cars, 7 trucks, 70.9ms
video 1/1 (frame 39/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 34 cars, 7 trucks, 68.6ms
video 1/1 (frame 40/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 30 cars, 7 trucks, 76.1ms
video 1/1 (frame 41/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 32 cars, 7 trucks, 76.6ms
video 1/1 (frame 42/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 8 trucks, 75.9ms
video 1/1 (frame 43/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 42 cars, 8 trucks, 76.5ms
video 1/1 (frame 44/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 43 cars, 6 trucks, 77.7ms
video 1/1 (frame 45/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 41 cars, 6 trucks, 79.0ms
video 1/1 (frame 46/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 6 trucks, 92.4ms
video 1/1 (frame 47/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 6 trucks, 80.1ms
video 1/1 (frame 48/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 41 cars, 6 trucks, 87.0ms
video 1/1 (frame 49/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 6 trucks, 120.4ms
video 1/1 (frame 50/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 5 trucks, 115.5ms
video 1/1 (frame 51/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 8 trucks, 53.3ms
video 1/1 (frame 52/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 33 cars, 8 trucks, 54.4ms
video 1/1 (frame 53/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 7 trucks, 54.0ms
video 1/1 (frame 54/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 9 trucks, 54.2ms
video 1/1 (frame 55/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 32 cars, 8 trucks, 54.4ms

video 1/1 (frame 56/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 33 cars, 7 trucks, 52.7ms
video 1/1 (frame 57/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 32 cars, 6 trucks, 56.3ms
video 1/1 (frame 58/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 33 cars, 5 trucks, 53.6ms
video 1/1 (frame 59/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 5 trucks, 68.7ms
video 1/1 (frame 60/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 33 cars, 5 trucks, 70.5ms
video 1/1 (frame 61/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 38 cars, 5 trucks, 71.3ms
video 1/1 (frame 62/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 35 cars, 9 trucks, 71.2ms
video 1/1 (frame 63/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 35 cars, 8 trucks, 72.5ms
video 1/1 (frame 64/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 8 trucks, 72.1ms
video 1/1 (frame 65/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 34 cars, 6 trucks, 75.9ms
video 1/1 (frame 66/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 35 cars, 9 trucks, 78.7ms
video 1/1 (frame 67/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 7 trucks, 79.1ms
video 1/1 (frame 68/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 43 cars, 7 trucks, 78.4ms
video 1/1 (frame 69/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 42 cars, 6 trucks, 89.2ms
video 1/1 (frame 70/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 46 cars, 7 trucks, 99.4ms
video 1/1 (frame 71/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 42 cars, 7 trucks, 129.9ms
video 1/1 (frame 72/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 5 trucks, 62.8ms
video 1/1 (frame 73/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 39 cars, 5 trucks, 63.2ms
video 1/1 (frame 74/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 39 cars, 5 trucks, 64.3ms
video 1/1 (frame 75/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 6 trucks, 66.3ms
video 1/1 (frame 76/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 38 cars, 7 trucks, 63.1ms
video 1/1 (frame 77/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 34 cars, 6 trucks, 61.2ms
video 1/1 (frame 78/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 34 cars, 8 trucks, 64.1ms
video 1/1 (frame 79/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 38 cars, 7 trucks, 62.1ms
video 1/1 (frame 80/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 35 cars, 9 trucks, 117.7ms
video 1/1 (frame 81/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 37 cars, 7 trucks, 63.7ms
video 1/1 (frame 82/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 35 cars, 7 trucks, 62.5ms
video 1/1 (frame 83/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 7 trucks, 64.0ms

video 1/1 (frame 84/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 39 cars, 6 trucks, 62.2ms
video 1/1 (frame 85/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 8 trucks, 63.1ms
video 1/1 (frame 86/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 8 trucks, 62.7ms
video 1/1 (frame 87/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 34 cars, 8 trucks, 64.1ms
video 1/1 (frame 88/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 7 trucks, 64.3ms
video 1/1 (frame 89/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 8 trucks, 122.1ms
video 1/1 (frame 90/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 43 cars, 7 trucks, 67.1ms
video 1/1 (frame 91/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 43 cars, 8 trucks, 65.7ms
video 1/1 (frame 92/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 10 trucks, 64.9ms
video 1/1 (frame 93/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 39 cars, 9 trucks, 63.4ms
video 1/1 (frame 94/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 41 cars, 7 trucks, 66.3ms
video 1/1 (frame 95/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 9 trucks, 67.0ms
video 1/1 (frame 96/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 9 trucks, 66.2ms
video 1/1 (frame 97/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 40 cars, 9 trucks, 67.4ms
video 1/1 (frame 98/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 8 trucks, 119.8ms
video 1/1 (frame 99/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 36 cars, 9 trucks, 63.1ms
video 1/1 (frame 100/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 7 trucks, 66.2ms
video 1/1 (frame 101/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 39 cars, 6 trucks, 62.1ms
video 1/1 (frame 102/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 7 trucks, 61.0ms
video 1/1 (frame 103/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 8 trucks, 60.7ms
video 1/1 (frame 104/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 1 person, 9 trucks, 60.9ms
video 1/1 (frame 105/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 7 trucks, 61.7ms
video 1/1 (frame 106/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 7 trucks, 65.0ms
video 1/1 (frame 107/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 9 trucks, 77.1ms
video 1/1 (frame 108/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 9 trucks, 76.9ms
video 1/1 (frame 109/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 6 trucks, 75.2ms
video 1/1 (frame 110/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 47 cars, 7 trucks, 83.2ms
video 1/1 (frame 111/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 7 trucks, 133.3ms

video 1/1 (frame 112/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 7 trucks, 63.5ms
video 1/1 (frame 113/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 8 trucks, 62.5ms
video 1/1 (frame 114/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 9 trucks, 59.2ms
video 1/1 (frame 115/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 10 trucks, 62.5ms
video 1/1 (frame 116/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 33 cars, 9 trucks, 61.8ms
video 1/1 (frame 117/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 7 trucks, 61.9ms
video 1/1 (frame 118/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 35 cars, 7 trucks, 59.4ms
video 1/1 (frame 119/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 8 trucks, 60.2ms
video 1/1 (frame 120/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 35 cars, 8 trucks, 118.9ms
video 1/1 (frame 121/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 7 trucks, 119.0ms
video 1/1 (frame 122/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 42 cars, 8 trucks, 61.8ms
video 1/1 (frame 123/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 39 cars, 9 trucks, 60.0ms
video 1/1 (frame 124/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 9 trucks, 57.7ms
video 1/1 (frame 125/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 9 trucks, 58.0ms
video 1/1 (frame 126/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 7 trucks, 58.4ms
video 1/1 (frame 127/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 7 trucks, 62.3ms
video 1/1 (frame 128/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 7 trucks, 59.5ms
video 1/1 (frame 129/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 6 trucks, 61.1ms
video 1/1 (frame 130/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 6 trucks, 71.0ms
video 1/1 (frame 131/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 7 trucks, 72.8ms
video 1/1 (frame 132/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 33 cars, 7 trucks, 76.5ms
video 1/1 (frame 133/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 4 trucks, 75.0ms
video 1/1 (frame 134/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 4 trucks, 100.8ms
video 1/1 (frame 135/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 5 trucks, 123.3ms
video 1/1 (frame 136/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 48 cars, 6 trucks, 63.5ms
video 1/1 (frame 137/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 8 trucks, 61.3ms
video 1/1 (frame 138/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 8 trucks, 60.0ms
video 1/1 (frame 139/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 8 trucks, 58.7ms

video 1/1 (frame 140/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 6 trucks, 58.6ms
video 1/1 (frame 141/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 7 trucks, 59.8ms
video 1/1 (frame 142/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 7 trucks, 61.2ms
video 1/1 (frame 143/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 5 trucks, 61.8ms
video 1/1 (frame 144/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 5 trucks, 121.1ms
video 1/1 (frame 145/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 45 cars, 6 trucks, 59.0ms
video 1/1 (frame 146/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 39 cars, 7 trucks, 57.7ms
video 1/1 (frame 147/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 39 cars, 7 trucks, 58.3ms
video 1/1 (frame 148/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 5 trucks, 59.5ms
video 1/1 (frame 149/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 7 trucks, 58.4ms
video 1/1 (frame 150/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 5 trucks, 59.5ms
video 1/1 (frame 151/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 6 trucks, 59.9ms
video 1/1 (frame 152/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 8 trucks, 58.4ms
video 1/1 (frame 153/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 3 trucks, 77.0ms
video 1/1 (frame 154/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 2 trucks, 73.6ms
video 1/1 (frame 155/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 48 cars, 5 trucks, 81.3ms
video 1/1 (frame 156/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 47 cars, 6 trucks, 79.1ms
video 1/1 (frame 157/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 6 trucks, 78.4ms
video 1/1 (frame 158/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 4 trucks, 76.8ms
video 1/1 (frame 159/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 5 trucks, 82.0ms
video 1/1 (frame 160/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 4 trucks, 130.2ms
video 1/1 (frame 161/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 7 trucks, 68.9ms
video 1/1 (frame 162/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 6 trucks, 61.5ms
video 1/1 (frame 163/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 44 cars, 4 trucks, 63.0ms
video 1/1 (frame 164/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 2 buss, 39 cars, 5 trucks, 64.7ms
video 1/1 (frame 165/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 40 cars, 6 trucks, 62.7ms
video 1/1 (frame 166/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 42 cars, 6 trucks, 64.3ms
video 1/1 (frame 167/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 42 cars, 7 trucks, 70.1ms

video 1/1 (frame 168/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 46 cars, 9 trucks, 63.5ms
video 1/1 (frame 169/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 8 trucks, 119.2ms
video 1/1 (frame 170/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 5 trucks, 117.4ms
video 1/1 (frame 171/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 35 cars, 9 trucks, 62.4ms
video 1/1 (frame 172/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 8 trucks, 68.4ms
video 1/1 (frame 173/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 10 trucks, 61.0ms
video 1/1 (frame 174/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 7 trucks, 74.0ms
video 1/1 (frame 175/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 8 trucks, 60.2ms
video 1/1 (frame 176/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 7 trucks, 61.1ms
video 1/1 (frame 177/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 7 trucks, 61.5ms
video 1/1 (frame 178/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 39 cars, 6 trucks, 63.1ms
video 1/1 (frame 179/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 8 trucks, 76.0ms
video 1/1 (frame 180/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 8 trucks, 81.8ms
video 1/1 (frame 181/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 7 trucks, 78.2ms
video 1/1 (frame 182/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 8 trucks, 76.6ms
video 1/1 (frame 183/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 9 trucks, 78.2ms
video 1/1 (frame 184/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 6 trucks, 82.6ms
video 1/1 (frame 185/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 9 trucks, 127.1ms
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40x640 37 cars, 8 trucks, 61.8ms
video 1/1 (frame 187/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 8 trucks, 63.1ms
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40x640 35 cars, 7 trucks, 62.2ms
video 1/1 (frame 189/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 7 trucks, 67.9ms
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40x640 35 cars, 7 trucks, 62.1ms
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40x640 40 cars, 4 trucks, 62.1ms
video 1/1 (frame 192/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 9 trucks, 65.2ms
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40x640 38 cars, 9 trucks, 61.7ms
video 1/1 (frame 194/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 8 trucks, 118.8ms
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40x640 40 cars, 7 trucks, 115.0ms

video 1/1 (frame 196/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 4 trucks, 57.5ms
video 1/1 (frame 197/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 6 trucks, 65.5ms
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40x640 47 cars, 6 trucks, 59.6ms
video 1/1 (frame 199/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 8 trucks, 54.2ms
video 1/1 (frame 200/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 8 trucks, 54.6ms
video 1/1 (frame 201/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 6 trucks, 58.8ms
video 1/1 (frame 202/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 5 trucks, 57.5ms
video 1/1 (frame 203/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 5 trucks, 56.2ms
video 1/1 (frame 204/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 6 trucks, 71.2ms
video 1/1 (frame 205/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 5 trucks, 71.4ms
video 1/1 (frame 206/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 4 trucks, 73.1ms
video 1/1 (frame 207/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 5 trucks, 71.1ms
video 1/1 (frame 208/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 42 cars, 6 trucks, 74.6ms
video 1/1 (frame 209/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 39 cars, 5 trucks, 82.1ms
video 1/1 (frame 210/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 36 cars, 5 trucks, 76.8ms
video 1/1 (frame 211/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 38 cars, 8 trucks, 77.9ms
video 1/1 (frame 212/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 8 trucks, 77.4ms
video 1/1 (frame 213/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 35 cars, 7 trucks, 79.3ms
video 1/1 (frame 214/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 38 cars, 10 trucks, 86.1ms
video 1/1 (frame 215/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 33 cars, 10 trucks, 81.5ms
video 1/1 (frame 216/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 8 trucks, 81.7ms
video 1/1 (frame 217/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 6 trucks, 83.0ms
video 1/1 (frame 218/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 8 trucks, 122.4ms
video 1/1 (frame 219/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 8 trucks, 117.5ms
video 1/1 (frame 220/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 10 trucks, 60.7ms
video 1/1 (frame 221/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 11 trucks, 61.5ms
video 1/1 (frame 222/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 11 trucks, 62.6ms
video 1/1 (frame 223/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 10 trucks, 59.8ms

video 1/1 (frame 224/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 8 trucks, 60.4ms
video 1/1 (frame 225/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 7 trucks, 60.7ms
video 1/1 (frame 226/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 45 cars, 6 trucks, 60.4ms
video 1/1 (frame 227/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 6 trucks, 60.2ms
video 1/1 (frame 228/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 7 trucks, 117.3ms
video 1/1 (frame 229/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 8 trucks, 119.0ms
video 1/1 (frame 230/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 39 cars, 8 trucks, 58.8ms
video 1/1 (frame 231/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 7 trucks, 56.5ms
video 1/1 (frame 232/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 7 trucks, 59.3ms
video 1/1 (frame 233/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 38 cars, 5 trucks, 57.8ms
video 1/1 (frame 234/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 2 buss, 38 cars, 9 trucks, 58.1ms
video 1/1 (frame 235/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 38 cars, 8 trucks, 61.1ms
video 1/1 (frame 236/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 31 cars, 7 trucks, 67.3ms
video 1/1 (frame 237/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 2 buss, 36 cars, 4 trucks, 63.2ms
video 1/1 (frame 238/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 6 trucks, 74.0ms
video 1/1 (frame 239/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 7 trucks, 75.4ms
video 1/1 (frame 240/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 38 cars, 5 trucks, 76.8ms
video 1/1 (frame 241/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 6 trucks, 84.4ms
video 1/1 (frame 242/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 2 buss, 35 cars, 6 trucks, 78.7ms
video 1/1 (frame 243/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 2 buss, 32 cars, 7 trucks, 81.2ms
video 1/1 (frame 244/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 6 trucks, 78.0ms
video 1/1 (frame 245/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 42 cars, 4 trucks, 85.2ms
video 1/1 (frame 246/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 5 trucks, 127.3ms
video 1/1 (frame 247/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 5 trucks, 73.0ms
video 1/1 (frame 248/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 38 cars, 5 trucks, 68.5ms
video 1/1 (frame 249/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 38 cars, 4 trucks, 64.7ms
video 1/1 (frame 250/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 39 cars, 4 trucks, 62.9ms
video 1/1 (frame 251/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 37 cars, 3 trucks, 63.3ms

video 1/1 (frame 252/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 5 trucks, 63.9ms
video 1/1 (frame 253/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 3 trucks, 65.7ms
video 1/1 (frame 254/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 37 cars, 3 trucks, 60.9ms
video 1/1 (frame 255/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 2 trucks, 73.6ms
video 1/1 (frame 256/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 3 trucks, 75.3ms
video 1/1 (frame 257/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 3 trucks, 78.6ms
video 1/1 (frame 258/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 5 trucks, 79.1ms
video 1/1 (frame 259/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 33 cars, 4 trucks, 81.3ms
video 1/1 (frame 260/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 6 trucks, 80.9ms
video 1/1 (frame 261/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 7 trucks, 85.2ms
video 1/1 (frame 262/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 40 cars, 5 trucks, 132.0ms
video 1/1 (frame 263/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 35 cars, 6 trucks, 66.5ms
video 1/1 (frame 264/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 3 trucks, 63.7ms
video 1/1 (frame 265/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 46 cars, 3 trucks, 63.1ms
video 1/1 (frame 266/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 4 trucks, 72.3ms
video 1/1 (frame 267/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 5 trucks, 61.6ms
video 1/1 (frame 268/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 45 cars, 2 trucks, 61.9ms
video 1/1 (frame 269/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 5 trucks, 62.3ms
video 1/1 (frame 270/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 7 trucks, 65.0ms
video 1/1 (frame 271/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 36 cars, 5 trucks, 117.9ms
video 1/1 (frame 272/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 37 cars, 4 trucks, 117.3ms
video 1/1 (frame 273/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 39 cars, 4 trucks, 60.9ms
video 1/1 (frame 274/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 41 cars, 6 trucks, 61.7ms
video 1/1 (frame 275/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 5 trucks, 61.2ms
video 1/1 (frame 276/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 6 trucks, 59.9ms
video 1/1 (frame 277/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 47 cars, 3 trucks, 61.4ms
video 1/1 (frame 278/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 4 trucks, 60.6ms
video 1/1 (frame 279/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 3 trucks, 71.5ms

video 1/1 (frame 280/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 2 trucks, 63.5ms
video 1/1 (frame 281/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 42 cars, 2 trucks, 120.2ms
video 1/1 (frame 282/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 4 trucks, 58.3ms
video 1/1 (frame 283/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 3 trucks, 57.4ms
video 1/1 (frame 284/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 49 cars, 5 trucks, 57.0ms
video 1/1 (frame 285/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 4 trucks, 56.5ms
video 1/1 (frame 286/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 5 trucks, 60.7ms
video 1/1 (frame 287/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 6 trucks, 56.6ms
video 1/1 (frame 288/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 5 trucks, 62.2ms
video 1/1 (frame 289/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 44 cars, 6 trucks, 57.5ms
video 1/1 (frame 290/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 5 trucks, 72.6ms
video 1/1 (frame 291/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 5 trucks, 71.2ms
video 1/1 (frame 292/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 49 cars, 5 trucks, 76.4ms
video 1/1 (frame 293/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 45 cars, 5 trucks, 73.5ms
video 1/1 (frame 294/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 48 cars, 2 trucks, 75.6ms
video 1/1 (frame 295/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 5 trucks, 122.5ms
video 1/1 (frame 296/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 40 cars, 4 trucks, 62.0ms
video 1/1 (frame 297/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 5 trucks, 60.4ms
video 1/1 (frame 298/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 38 cars, 1 motor, 4 trucks, 60.6ms
video 1/1 (frame 299/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 51 cars, 5 trucks, 59.5ms
video 1/1 (frame 300/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 49 cars, 3 trucks, 60.2ms
video 1/1 (frame 301/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 48 cars, 4 trucks, 61.0ms
video 1/1 (frame 302/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 46 cars, 4 trucks, 61.8ms
video 1/1 (frame 303/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 4 trucks, 63.7ms
video 1/1 (frame 304/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 48 cars, 4 trucks, 116.0ms
video 1/1 (frame 305/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 43 cars, 3 trucks, 120.1ms
video 1/1 (frame 306/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 50 cars, 3 trucks, 62.5ms
video 1/1 (frame 307/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 48 cars, 1 motor, 1 rider, 2 trucks, 59.0ms

Speed: 4.9ms preprocess, 72.9ms inference, 1.2ms postprocess per image at shape (1, 3, 640, 640)

Video saved to: D:\ery\School\Jupyter Notebooks\datasets\sample_vid_output.mp4

prediction with sumo simulation data

```
In [13]: import traci
import cv2
from ultralytics import RTDETR
from collections import defaultdict

In [6]: model = RTDETR(r'D:\ery\School\Jupyter Notebooks\runs\detect\RT-DETR_model\weights/
model = model.to('cuda')

In [7]: input_video_path = r'D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4'
output_video_path = r'D:\ery\School\Jupyter Notebooks\datasets\sample_vid_tracked.m

In [8]: cap = cv2.VideoCapture(input_video_path)
fps = int(cap.get(cv2.CAP_PROP_FPS))
width = int(cap.get(cv2.CAP_PROP_FRAME_WIDTH))
height = int(cap.get(cv2.CAP_PROP_FRAME_HEIGHT))
cap.release()

In [9]: fourcc = cv2.VideoWriter_fourcc(*'mp4v')
out = cv2.VideoWriter(output_video_path, fourcc, fps, (width, height))

In [14]: detected_ids = defaultdict(int)
total_count = 0

In [16]: results = model.track(
    input_video_path,
    stream=True,
    persist=True,
    tracker="bytetrack.yaml"
)

In [17]: window_name = "RT-DETR + ByteTrack"
cv2.namedWindow(window_name, cv2.WINDOW_NORMAL)
cv2.resizeWindow(window_name, 800, 600)

for frame_idx, result in enumerate(results):
    frame = result.plot() # Draw detections + tracking IDs

    if result.bboxes.id is not None:
        track_ids = result.bboxes.id.cpu().numpy().astype(int)

        for track_id in track_ids:
            if track_id not in detected_ids:
                total_count += 1
                detected_ids[track_id] = frame_idx

    cv2.putText(
        frame,
```

```
f"Total Objects: {total_count}",
(20, 50),
cv2.FONT_HERSHEY_SIMPLEX,
1,
(0, 255, 0),
2,
)

out.write(frame)

cv2.imshow(window_name, frame)

if cv2.waitKey(1) == ord('q'):
    break

# Release resources
out.release()
cv2.destroyAllWindows()

print(f"Tracking results saved to: {output_video_path}")
print(f"Total unique objects detected: {total_count}")
```

video 1/1 (frame 1/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 42 cars, 7 trucks, 50.8ms
video 1/1 (frame 2/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 38 cars, 6 trucks, 54.0ms
video 1/1 (frame 3/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 38 cars, 6 trucks, 63.3ms
video 1/1 (frame 4/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 34 cars, 6 trucks, 118.8ms
video 1/1 (frame 5/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 35 cars, 4 trucks, 54.4ms
video 1/1 (frame 6/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 31 cars, 5 trucks, 58.6ms
video 1/1 (frame 7/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 32 cars, 5 trucks, 57.9ms
video 1/1 (frame 8/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 30 cars, 6 trucks, 54.0ms
video 1/1 (frame 9/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 640
x640 30 cars, 6 trucks, 54.1ms
video 1/1 (frame 10/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 29 cars, 6 trucks, 60.7ms
video 1/1 (frame 11/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 32 cars, 4 trucks, 54.5ms
video 1/1 (frame 12/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 28 cars, 7 trucks, 57.2ms
video 1/1 (frame 13/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 28 cars, 6 trucks, 72.4ms
video 1/1 (frame 14/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 26 cars, 7 trucks, 76.4ms
video 1/1 (frame 15/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 26 cars, 7 trucks, 85.1ms
video 1/1 (frame 16/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 27 cars, 6 trucks, 72.9ms
video 1/1 (frame 17/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 27 cars, 5 trucks, 77.2ms
video 1/1 (frame 18/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 27 cars, 5 trucks, 69.7ms
video 1/1 (frame 19/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 24 cars, 5 trucks, 120.0ms
video 1/1 (frame 20/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 25 cars, 4 trucks, 70.4ms
video 1/1 (frame 21/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 24 cars, 5 trucks, 67.9ms
video 1/1 (frame 22/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 24 cars, 5 trucks, 69.4ms
video 1/1 (frame 23/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 24 cars, 5 trucks, 68.9ms
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0x640 21 cars, 7 trucks, 69.2ms
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0x640 22 cars, 7 trucks, 70.4ms
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0x640 24 cars, 6 trucks, 68.7ms
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0x640 23 cars, 7 trucks, 131.2ms
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0x640 22 cars, 7 trucks, 64.1ms

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0x640 21 cars, 7 trucks, 59.1ms
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0x640 22 cars, 6 trucks, 65.8ms
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0x640 22 cars, 6 trucks, 61.2ms
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0x640 22 cars, 6 trucks, 60.6ms
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0x640 22 cars, 6 trucks, 62.2ms
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0x640 22 cars, 6 trucks, 60.1ms
video 1/1 (frame 35/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 22 cars, 6 trucks, 170.4ms
video 1/1 (frame 36/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 20 cars, 8 trucks, 53.2ms
video 1/1 (frame 37/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 20 cars, 8 trucks, 48.7ms
video 1/1 (frame 38/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 20 cars, 6 trucks, 48.1ms
video 1/1 (frame 39/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 20 cars, 5 trucks, 51.2ms
video 1/1 (frame 40/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 64
0x640 19 cars, 6 trucks, 49.7ms
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0x640 19 cars, 5 trucks, 47.5ms
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0x640 20 cars, 5 trucks, 48.7ms
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0x640 20 cars, 5 trucks, 52.7ms
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0x640 20 cars, 5 trucks, 66.6ms
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0x640 20 cars, 5 trucks, 71.3ms
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0x640 18 cars, 5 trucks, 71.9ms
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0x640 18 cars, 5 trucks, 75.4ms
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40x640 11 cars, 3 trucks, 52.3ms
video 1/1 (frame 158/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 11 cars, 3 trucks, 49.7ms
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40x640 11 cars, 3 trucks, 51.9ms
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40x640 11 cars, 3 trucks, 50.3ms
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40x640 11 cars, 3 trucks, 54.4ms
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40x640 11 cars, 3 trucks, 53.1ms
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40x640 11 cars, 3 trucks, 53.1ms
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40x640 2 buss, 9 cars, 3 trucks, 50.9ms
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40x640 1 bus, 10 cars, 3 trucks, 49.2ms
video 1/1 (frame 166/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 10 cars, 3 trucks, 50.8ms
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40x640 11 cars, 3 trucks, 51.4ms
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40x640 11 cars, 3 trucks, 53.6ms

video 1/1 (frame 169/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 10 cars, 4 trucks, 52.5ms
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40x640 11 cars, 3 trucks, 49.4ms
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40x640 10 cars, 4 trucks, 51.4ms
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40x640 11 cars, 3 trucks, 48.1ms
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40x640 10 cars, 4 trucks, 60.1ms
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40x640 10 cars, 4 trucks, 67.2ms
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40x640 10 cars, 3 trucks, 69.4ms
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40x640 9 cars, 3 trucks, 155.8ms
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40x640 9 cars, 3 trucks, 57.1ms
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40x640 10 cars, 2 trucks, 62.0ms
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40x640 7 cars, 3 trucks, 63.2ms
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40x640 9 cars, 1 truck, 78.0ms
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40x640 9 cars, 1 truck, 80.0ms

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40x640 9 cars, 1 truck, 79.7ms
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40x640 9 cars, 1 truck, 73.4ms
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40x640 8 cars, 2 trucks, 81.2ms
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40x640 9 cars, 1 truck, 86.1ms
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40x640 9 cars, 1 truck, 77.8ms
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40x640 9 cars, 1 truck, 81.5ms
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40x640 9 cars, 1 truck, 72.2ms
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40x640 9 cars, 1 truck, 79.0ms
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40x640 8 cars, 2 trucks, 76.5ms
video 1/1 (frame 206/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 8 cars, 2 trucks, 83.5ms
video 1/1 (frame 207/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 9 cars, 1 truck, 73.2ms
video 1/1 (frame 208/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 9 cars, 1 truck, 124.0ms
video 1/1 (frame 209/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 8 cars, 1 truck, 59.6ms
video 1/1 (frame 210/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 9 cars, 1 truck, 61.8ms
video 1/1 (frame 211/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 7 cars, 2 trucks, 56.2ms
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40x640 8 cars, 2 trucks, 61.7ms
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40x640 8 cars, 2 trucks, 57.3ms
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40x640 8 cars, 2 trucks, 61.6ms
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40x640 8 cars, 2 trucks, 59.2ms
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40x640 8 cars, 1 truck, 59.4ms
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40x640 8 cars, 1 truck, 68.3ms
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40x640 8 cars, 1 truck, 71.4ms
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40x640 8 cars, 1 truck, 68.1ms
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40x640 8 cars, 1 truck, 79.2ms
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40x640 8 cars, 1 truck, 71.1ms
video 1/1 (frame 222/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 8 cars, 1 truck, 75.4ms
video 1/1 (frame 223/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 8 cars, 1 truck, 75.6ms
video 1/1 (frame 224/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 8 cars, 1 truck, 76.9ms

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40x640 8 cars, 1 truck, 76.4ms
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40x640 8 cars, 1 truck, 75.6ms
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40x640 8 cars, 1 truck, 75.5ms
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40x640 8 cars, 1 truck, 82.8ms
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40x640 8 cars, 1 truck, 74.2ms
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40x640 8 cars, 1 truck, 83.9ms
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40x640 8 cars, 1 truck, 75.1ms
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40x640 8 cars, 1 truck, 123.9ms
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40x640 9 cars, 64.1ms
video 1/1 (frame 234/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 7 cars, 68.8ms
video 1/1 (frame 235/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 6 cars, 68.5ms
video 1/1 (frame 236/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 5 cars, 1 truck, 63.3ms
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40x640 1 bus, 6 cars, 67.9ms
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40x640 7 cars, 64.3ms
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40x640 6 cars, 1 truck, 65.6ms
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40x640 7 cars, 62.8ms
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40x640 7 cars, 63.3ms
video 1/1 (frame 242/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 4 cars, 2 trucks, 71.1ms
video 1/1 (frame 243/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 2 buss, 4 cars, 1 truck, 83.1ms
video 1/1 (frame 244/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 6 cars, 1 truck, 73.3ms
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40x640 6 cars, 1 truck, 75.5ms

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40x640 7 cars, 78.5ms
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40x640 7 cars, 57.5ms
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40x640 7 cars, 57.7ms
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40x640 7 cars, 53.7ms
video 1/1 (frame 262/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 1 bus, 5 cars, 1 truck, 56.2ms
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40x640 6 cars, 1 truck, 69.0ms
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40x640 7 cars, 65.8ms
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40x640 1 bus, 6 cars, 71.4ms
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40x640 6 cars, 1 truck, 65.3ms
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40x640 7 cars, 55.8ms
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40x640 5 cars, 1 truck, 62.4ms
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40x640 6 cars, 1 truck, 59.4ms
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40x640 6 cars, 1 truck, 85.9ms
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40x640 6 cars, 1 truck, 70.6ms
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40x640 6 cars, 1 truck, 68.6ms
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40x640 6 cars, 1 truck, 72.1ms
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40x640 6 cars, 1 truck, 71.9ms
video 1/1 (frame 302/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 6 cars, 1 truck, 119.9ms
video 1/1 (frame 303/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 6 cars, 1 truck, 64.2ms
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40x640 6 cars, 1 truck, 67.5ms
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40x640 6 cars, 1 truck, 63.3ms
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40x640 6 cars, 1 truck, 64.8ms
video 1/1 (frame 307/307) D:\ery\School\Jupyter Notebooks\datasets\sample_vid.mp4: 6
40x640 6 cars, 1 truck, 64.0ms
Speed: 5.0ms preprocess, 71.0ms inference, 1.2ms postprocess per image at shape (1,
3, 640, 640)

Tracking results saved to: D:\ery\School\Jupyter Notebooks\datasets\sample_vid_tracked.mp4

Total unique objects detected: 49

Running model with saved counted object detected

```
In [21]: import cv2
import csv
from datetime import datetime
from collections import defaultdict
from ultralytics import RTDETR

# Loading my chosen model
model = RTDETR(r'D:\ery\School\Jupyter Notebooks\runs\detect\RT-DETR_model\weights\
model = model.to('cuda')

# path of sample vid, its output and the csv of counted objects on the video
input_video_path = r'D:\ery\School\Jupyter Notebooks\datasets\test.mp4'
output_video_path = r'D:\ery\School\Jupyter Notebooks\datasets\test_tracked.mp4'
csv_file_path = r'D:\ery\School\Jupyter Notebooks\datasets\test_object_counts.csv'

# part for configuring the video
cap = cv2.VideoCapture(input_video_path)
fps = cap.get(cv2.CAP_PROP_FPS)
width = int(cap.get(cv2.CAP_PROP_FRAME_WIDTH))
height = int(cap.get(cv2.CAP_PROP_FRAME_HEIGHT))
cap.release()

# part for encoding the video output
fourcc = cv2.VideoWriter_fourcc(*'mp4v')
out = cv2.VideoWriter(output_video_path, fourcc, fps, (width, height))

unique_vehicles = set()
unique_pedestrians = set()
frame_count = 0

csv_header = ["Timestamp", "Frame", "Total_Vehicles", "Total_Pedestrians"]

with open(csv_file_path, mode='w', newline='') as csv_file:
    writer = csv.writer(csv_file)
    writer.writerow(csv_header)

results = model.track(
    input_video_path,
    stream=True,
    persist=True,
    tracker="bytetrack.yaml",
    conf=0.5
)

window_name = "Pedestrian & Vehicle Tracker"
cv2.namedWindow(window_name, cv2.WINDOW_NORMAL)
cv2.resizeWindow(window_name, 800, 600)

for frame_idx, result in enumerate(results):
```

```

frame = result.plot()
frame_count += 1
current_time = datetime.now().strftime("%Y-%m-%d %H:%M:%S")

if result.bboxes.id is not None:
    track_ids = result.bboxes.id.cpu().numpy().astype(int)
    class_ids = result.bboxes.cls.cpu().numpy().astype(int)

    for track_id, class_id in zip(track_ids, class_ids):
        class_name = model.names[class_id]

        if class_name == "car" or class_name == "truck":
            if track_id not in unique_vehicles:
                unique_vehicles.add(track_id)
        elif class_name == "person":
            if track_id not in unique_pedestrians:
                unique_pedestrians.add(track_id)

cv2.putText(frame, f"Vehicles: {len(unique_vehicles)}", (20, 50),
            cv2.FONT_HERSHEY_SIMPLEX, 1, (0, 255, 0), 2)
cv2.putText(frame, f"Pedestrians: {len(unique_pedestrians)}", (20, 100),
            cv2.FONT_HERSHEY_SIMPLEX, 1, (0, 0, 255), 2)

out.write(frame)

with open(csv_file_path, mode='a', newline='') as csv_file:
    writer = csv.writer(csv_file)
    writer.writerow([
        current_time,
        frame_idx,
        len(unique_vehicles),
        len(unique_pedestrians)
    ])

cv2.imshow(window_name, frame)
if cv2.waitKey(1) == ord('q'):
    break

out.release()
cv2.destroyAllWindows()

print(f"Results saved to: {output_video_path}")
print(f"CSV data saved to: {csv_file_path}")
print(f"Final counts - Vehicles: {len(unique_vehicles)}, Pedestrians: {len(unique_p

```

video 1/1 (frame 1/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 1
bike, 2 cars, 1 motor, 9 persons, 3 riders, 61.9ms
video 1/1 (frame 2/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 1
bike, 2 cars, 6 persons, 2 riders, 59.5ms
video 1/1 (frame 3/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 2
cars, 1 motor, 8 persons, 3 riders, 52.4ms
video 1/1 (frame 4/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 2
cars, 1 motor, 6 persons, 2 riders, 52.3ms
video 1/1 (frame 5/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 2
cars, 8 persons, 4 riders, 51.4ms
video 1/1 (frame 6/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 2
cars, 1 motor, 7 persons, 4 riders, 51.1ms
video 1/1 (frame 7/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 2
cars, 9 persons, 4 riders, 50.2ms
video 1/1 (frame 8/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 3
cars, 10 persons, 3 riders, 50.1ms
video 1/1 (frame 9/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640 2
cars, 8 persons, 3 riders, 64.7ms
video 1/1 (frame 10/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 1 motor, 8 persons, 4 riders, 68.9ms
video 1/1 (frame 11/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 9 persons, 4 riders, 70.4ms
video 1/1 (frame 12/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 9 persons, 3 riders, 71.5ms
video 1/1 (frame 13/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 2 cars, 1 motor, 7 persons, 4 riders, 74.5ms
video 1/1 (frame 14/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 2 motors, 6 persons, 3 riders, 72.1ms
video 1/1 (frame 15/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 1 motor, 5 persons, 2 riders, 71.4ms
video 1/1 (frame 16/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 2 cars, 1 motor, 7 persons, 2 riders, 75.6ms
video 1/1 (frame 17/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 5 persons, 4 riders, 72.6ms
video 1/1 (frame 18/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 5 persons, 3 riders, 76.1ms
video 1/1 (frame 19/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 2 motors, 7 persons, 4 riders, 74.7ms
video 1/1 (frame 20/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 2 motors, 8 persons, 4 riders, 76.0ms
video 1/1 (frame 21/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 9 persons, 3 riders, 75.4ms
video 1/1 (frame 22/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 2 motors, 10 persons, 5 riders, 75.4ms
video 1/1 (frame 23/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 2 motors, 9 persons, 4 riders, 76.7ms
video 1/1 (frame 24/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 9 persons, 5 riders, 79.8ms
video 1/1 (frame 25/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 9 persons, 4 riders, 76.9ms
video 1/1 (frame 26/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 10 persons, 4 riders, 123.0ms
video 1/1 (frame 27/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 2 motors, 8 persons, 4 riders, 61.1ms
video 1/1 (frame 28/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 8 persons, 4 riders, 61.3ms

video 1/1 (frame 29/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 9 persons, 4 riders, 63.0ms
video 1/1 (frame 30/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 1 motor, 9 persons, 5 riders, 61.4ms
video 1/1 (frame 31/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 1 motor, 9 persons, 5 riders, 73.5ms
video 1/1 (frame 32/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 5 cars, 1 motor, 8 persons, 5 riders, 68.6ms
video 1/1 (frame 33/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 3 cars, 1 motor, 6 persons, 5 riders, 65.0ms
video 1/1 (frame 34/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 8 persons, 5 riders, 61.5ms
video 1/1 (frame 35/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 4 cars, 1 motor, 7 persons, 5 riders, 120.8ms
video 1/1 (frame 36/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 3 cars, 1 motor, 8 persons, 4 riders, 118.4ms
video 1/1 (frame 37/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 3 cars, 1 motor, 8 persons, 5 riders, 64.2ms
video 1/1 (frame 38/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 7 persons, 5 riders, 57.9ms
video 1/1 (frame 39/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 8 persons, 5 riders, 57.7ms
video 1/1 (frame 40/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 3 cars, 1 motor, 8 persons, 6 riders, 58.6ms
video 1/1 (frame 41/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 3 cars, 1 motor, 11 persons, 4 riders, 60.8ms
video 1/1 (frame 42/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 3 cars, 11 persons, 4 riders, 60.5ms
video 1/1 (frame 43/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 4 cars, 1 motor, 12 persons, 6 riders, 58.3ms
video 1/1 (frame 44/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 11 persons, 6 riders, 59.6ms
video 1/1 (frame 45/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 10 persons, 6 riders, 72.6ms
video 1/1 (frame 46/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 8 persons, 6 riders, 75.5ms
video 1/1 (frame 47/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 1 motor, 10 persons, 6 riders, 71.3ms
video 1/1 (frame 48/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 10 persons, 5 riders, 71.2ms
video 1/1 (frame 49/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 10 persons, 5 riders, 91.1ms
video 1/1 (frame 50/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 9 persons, 4 riders, 76.0ms
video 1/1 (frame 51/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 11 persons, 4 riders, 78.4ms
video 1/1 (frame 52/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 1 motor, 10 persons, 4 riders, 127.2ms
video 1/1 (frame 53/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 9 persons, 4 riders, 64.8ms
video 1/1 (frame 54/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 8 persons, 4 riders, 60.3ms
video 1/1 (frame 55/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 1 motor, 9 persons, 4 riders, 60.3ms
video 1/1 (frame 56/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 1 motor, 7 persons, 4 riders, 61.7ms

video 1/1 (frame 57/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 5 persons, 4 riders, 62.7ms
video 1/1 (frame 58/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 1 motor, 9 persons, 4 riders, 60.7ms
video 1/1 (frame 59/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 2 cars, 2 motors, 6 persons, 2 riders, 62.1ms
video 1/1 (frame 60/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 2 motors, 7 persons, 3 riders, 62.5ms
video 1/1 (frame 61/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 8 persons, 4 riders, 75.5ms
video 1/1 (frame 62/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 7 persons, 4 riders, 76.0ms
video 1/1 (frame 63/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 1 motor, 9 persons, 4 riders, 78.6ms
video 1/1 (frame 64/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 10 persons, 3 riders, 76.1ms
video 1/1 (frame 65/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 2 motors, 9 persons, 3 riders, 82.1ms
video 1/1 (frame 66/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 2 motors, 8 persons, 3 riders, 82.6ms
video 1/1 (frame 67/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 2 motors, 9 persons, 3 riders, 82.9ms
video 1/1 (frame 68/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 2 motors, 8 persons, 3 riders, 137.4ms
video 1/1 (frame 69/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 10 persons, 2 riders, 61.7ms
video 1/1 (frame 70/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 8 persons, 2 riders, 60.7ms
video 1/1 (frame 71/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 9 persons, 2 riders, 61.4ms
video 1/1 (frame 72/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 2 motors, 8 persons, 3 riders, 62.0ms
video 1/1 (frame 73/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 2 motors, 8 persons, 3 riders, 62.6ms
video 1/1 (frame 74/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 8 persons, 3 riders, 61.5ms
video 1/1 (frame 75/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 11 persons, 3 riders, 64.2ms
video 1/1 (frame 76/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 11 persons, 4 riders, 59.3ms
video 1/1 (frame 77/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 11 persons, 4 riders, 124.5ms
video 1/1 (frame 78/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 2 motors, 10 persons, 3 riders, 121.1ms
video 1/1 (frame 79/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 2 motors, 10 persons, 3 riders, 56.4ms
video 1/1 (frame 80/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 2 motors, 9 persons, 3 riders, 56.8ms
video 1/1 (frame 81/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 2 motors, 11 persons, 3 riders, 55.2ms
video 1/1 (frame 82/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 11 persons, 3 riders, 58.2ms
video 1/1 (frame 83/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 2 motors, 8 persons, 3 riders, 57.0ms
video 1/1 (frame 84/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 2 motors, 10 persons, 4 riders, 58.8ms

video 1/1 (frame 85/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 8 persons, 4 riders, 55.6ms
video 1/1 (frame 86/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 8 persons, 4 riders, 54.6ms
video 1/1 (frame 87/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 11 persons, 4 riders, 56.3ms
video 1/1 (frame 88/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 9 persons, 4 riders, 73.7ms
video 1/1 (frame 89/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 2 motors, 9 persons, 4 riders, 71.1ms
video 1/1 (frame 90/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 10 persons, 4 riders, 79.6ms
video 1/1 (frame 91/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 2 motors, 7 persons, 4 riders, 72.5ms
video 1/1 (frame 92/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 12 persons, 3 riders, 80.0ms
video 1/1 (frame 93/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 10 persons, 4 riders, 75.5ms
video 1/1 (frame 94/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 1 motor, 9 persons, 2 riders, 78.4ms
video 1/1 (frame 95/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 1 motor, 10 persons, 4 riders, 79.6ms
video 1/1 (frame 96/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 8 persons, 3 riders, 80.5ms
video 1/1 (frame 97/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 12 persons, 3 riders, 81.2ms
video 1/1 (frame 98/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 8 persons, 3 riders, 81.0ms
video 1/1 (frame 99/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 8 persons, 3 riders, 83.5ms
video 1/1 (frame 100/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 6 persons, 2 riders, 81.0ms
video 1/1 (frame 101/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 8 persons, 2 riders, 86.3ms
video 1/1 (frame 102/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 9 persons, 2 riders, 122.5ms
video 1/1 (frame 103/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 3 riders, 120.8ms
video 1/1 (frame 104/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 11 persons, 1 rider, 54.4ms
video 1/1 (frame 105/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 2 motors, 12 persons, 2 riders, 56.7ms
video 1/1 (frame 106/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 2 riders, 53.9ms
video 1/1 (frame 107/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 2 motors, 10 persons, 2 riders, 53.1ms
video 1/1 (frame 108/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 2 riders, 58.7ms
video 1/1 (frame 109/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 2 riders, 54.2ms
video 1/1 (frame 110/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 2 riders, 53.6ms
video 1/1 (frame 111/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 4 riders, 52.6ms
video 1/1 (frame 112/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 3 riders, 55.1ms

video 1/1 (frame 113/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 2 motors, 10 persons, 2 riders, 66.8ms
video 1/1 (frame 114/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 2 riders, 69.5ms
video 1/1 (frame 115/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 10 persons, 2 riders, 71.1ms
video 1/1 (frame 116/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 10 persons, 3 riders, 71.6ms
video 1/1 (frame 117/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 12 persons, 3 riders, 73.0ms
video 1/1 (frame 118/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 3 riders, 69.9ms
video 1/1 (frame 119/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 9 persons, 2 riders, 73.6ms
video 1/1 (frame 120/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 11 persons, 3 riders, 75.3ms
video 1/1 (frame 121/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 11 persons, 3 riders, 94.7ms
video 1/1 (frame 122/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 10 persons, 3 riders, 121.2ms
video 1/1 (frame 123/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 10 persons, 3 riders, 62.0ms
video 1/1 (frame 124/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 9 persons, 3 riders, 66.2ms
video 1/1 (frame 125/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 11 persons, 3 riders, 61.5ms
video 1/1 (frame 126/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 8 persons, 3 riders, 58.9ms
video 1/1 (frame 127/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 10 persons, 2 riders, 61.9ms
video 1/1 (frame 128/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 3 riders, 67.1ms
video 1/1 (frame 129/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 9 persons, 3 riders, 58.5ms
video 1/1 (frame 130/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 3 riders, 61.4ms
video 1/1 (frame 131/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 9 persons, 3 riders, 102.8ms
video 1/1 (frame 132/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 8 persons, 2 riders, 72.4ms
video 1/1 (frame 133/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 7 persons, 2 riders, 68.4ms
video 1/1 (frame 134/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 9 persons, 2 riders, 64.7ms
video 1/1 (frame 135/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 9 persons, 2 riders, 66.5ms
video 1/1 (frame 136/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 9 persons, 2 riders, 68.4ms
video 1/1 (frame 137/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 9 persons, 2 riders, 68.5ms
video 1/1 (frame 138/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 2 riders, 67.4ms
video 1/1 (frame 139/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 11 persons, 3 riders, 71.4ms
video 1/1 (frame 140/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 11 persons, 3 riders, 125.3ms

video 1/1 (frame 141/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 11 persons, 2 riders, 61.0ms
video 1/1 (frame 142/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 11 persons, 3 riders, 57.6ms
video 1/1 (frame 143/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 10 persons, 3 riders, 59.9ms
video 1/1 (frame 144/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 10 persons, 3 riders, 60.8ms
video 1/1 (frame 145/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 11 persons, 3 riders, 56.2ms
video 1/1 (frame 146/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 9 persons, 2 riders, 54.6ms
video 1/1 (frame 147/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 1 motor, 10 persons, 3 riders, 56.8ms
video 1/1 (frame 148/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 1 motor, 10 persons, 2 riders, 60.3ms
video 1/1 (frame 149/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 14 persons, 3 riders, 70.8ms
video 1/1 (frame 150/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 13 persons, 2 riders, 71.3ms
video 1/1 (frame 151/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 12 persons, 2 riders, 74.1ms
video 1/1 (frame 152/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 11 persons, 2 riders, 81.6ms
video 1/1 (frame 153/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 9 persons, 2 riders, 74.3ms
video 1/1 (frame 154/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 8 persons, 2 riders, 78.2ms
video 1/1 (frame 155/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 2 riders, 81.6ms
video 1/1 (frame 156/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 9 persons, 2 riders, 78.7ms
video 1/1 (frame 157/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 9 persons, 2 riders, 76.2ms
video 1/1 (frame 158/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 9 persons, 2 riders, 96.9ms
video 1/1 (frame 159/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 1 motor, 8 persons, 2 riders, 132.4ms
video 1/1 (frame 160/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 2 motors, 8 persons, 2 riders, 62.6ms
video 1/1 (frame 161/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 5 persons, 2 riders, 61.7ms
video 1/1 (frame 162/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 9 persons, 2 riders, 63.4ms
video 1/1 (frame 163/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 1 motor, 9 persons, 2 riders, 63.2ms
video 1/1 (frame 164/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 8 persons, 2 riders, 61.2ms
video 1/1 (frame 165/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 8 persons, 2 riders, 60.8ms
video 1/1 (frame 166/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 10 persons, 2 riders, 61.1ms
video 1/1 (frame 167/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 10 persons, 2 riders, 62.1ms
video 1/1 (frame 168/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 10 persons, 1 rider, 65.2ms

video 1/1 (frame 169/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 11 persons, 2 riders, 123.8ms
video 1/1 (frame 170/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 9 persons, 2 riders, 65.7ms
video 1/1 (frame 171/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 1 motor, 9 persons, 2 riders, 59.3ms
video 1/1 (frame 172/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 10 persons, 4 riders, 64.4ms
video 1/1 (frame 173/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 10 persons, 2 riders, 61.9ms
video 1/1 (frame 174/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 2 motors, 9 persons, 3 riders, 65.3ms
video 1/1 (frame 175/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 1 motor, 9 persons, 2 riders, 62.1ms
video 1/1 (frame 176/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 11 persons, 2 riders, 76.6ms
video 1/1 (frame 177/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 10 persons, 3 riders, 63.2ms
video 1/1 (frame 178/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 11 persons, 2 riders, 115.6ms
video 1/1 (frame 179/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 11 persons, 3 riders, 63.0ms
video 1/1 (frame 180/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 10 persons, 2 riders, 63.0ms
video 1/1 (frame 181/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 2 riders, 70.5ms
video 1/1 (frame 182/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 11 persons, 1 rider, 60.2ms
video 1/1 (frame 183/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 8 persons, 1 rider, 64.5ms
video 1/1 (frame 184/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 10 persons, 2 riders, 63.1ms
video 1/1 (frame 185/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 1 motor, 11 persons, 2 riders, 61.7ms
video 1/1 (frame 186/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 11 persons, 1 rider, 60.2ms
video 1/1 (frame 187/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 73.3ms
video 1/1 (frame 188/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 10 persons, 127.1ms
video 1/1 (frame 189/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 11 persons, 60.0ms
video 1/1 (frame 190/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 10 persons, 3 riders, 60.8ms
video 1/1 (frame 191/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 13 persons, 2 riders, 58.5ms
video 1/1 (frame 192/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 12 persons, 2 riders, 59.3ms
video 1/1 (frame 193/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 2 motors, 10 persons, 2 riders, 61.4ms
video 1/1 (frame 194/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 11 persons, 2 riders, 60.8ms
video 1/1 (frame 195/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 11 persons, 1 rider, 59.7ms
video 1/1 (frame 196/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 2 motors, 10 persons, 2 riders, 60.1ms

video 1/1 (frame 197/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 9 persons, 3 riders, 71.7ms
video 1/1 (frame 198/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 11 persons, 74.9ms
video 1/1 (frame 199/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 11 persons, 1 rider, 81.5ms
video 1/1 (frame 200/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 12 persons, 2 riders, 75.7ms
video 1/1 (frame 201/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 8 persons, 1 rider, 76.5ms
video 1/1 (frame 202/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 1 rider, 78.0ms
video 1/1 (frame 203/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 2 motors, 12 persons, 1 rider, 79.4ms
video 1/1 (frame 204/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 12 persons, 2 riders, 107.2ms
video 1/1 (frame 205/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 11 persons, 2 riders, 121.3ms
video 1/1 (frame 206/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 1 rider, 60.3ms
video 1/1 (frame 207/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 1 rider, 56.9ms
video 1/1 (frame 208/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 10 persons, 1 rider, 59.0ms
video 1/1 (frame 209/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 14 persons, 62.1ms
video 1/1 (frame 210/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 13 persons, 1 rider, 59.5ms
video 1/1 (frame 211/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 14 persons, 1 rider, 61.1ms
video 1/1 (frame 212/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 13 persons, 1 rider, 61.8ms
video 1/1 (frame 213/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 12 persons, 57.4ms
video 1/1 (frame 214/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 11 persons, 1 rider, 75.0ms
video 1/1 (frame 215/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 1 rider, 74.0ms
video 1/1 (frame 216/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 11 persons, 1 rider, 78.4ms
video 1/1 (frame 217/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 12 persons, 2 riders, 121.2ms
video 1/1 (frame 218/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 12 persons, 2 riders, 59.8ms
video 1/1 (frame 219/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 13 persons, 2 riders, 62.4ms
video 1/1 (frame 220/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 11 persons, 2 riders, 61.4ms
video 1/1 (frame 221/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 2 riders, 59.1ms
video 1/1 (frame 222/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 10 persons, 3 riders, 56.3ms
video 1/1 (frame 223/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 10 persons, 2 riders, 61.6ms
video 1/1 (frame 224/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
7 cars, 10 persons, 2 riders, 60.0ms

video 1/1 (frame 225/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 11 persons, 4 riders, 62.0ms
video 1/1 (frame 226/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 12 persons, 4 riders, 72.0ms
video 1/1 (frame 227/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 4 riders, 79.3ms
video 1/1 (frame 228/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 7 persons, 2 riders, 76.9ms
video 1/1 (frame 229/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 11 persons, 2 riders, 80.1ms
video 1/1 (frame 230/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 12 persons, 3 riders, 78.3ms
video 1/1 (frame 231/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 7 cars, 12 persons, 2 riders, 92.6ms
video 1/1 (frame 232/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 9 persons, 2 riders, 83.9ms
video 1/1 (frame 233/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 2 riders, 127.0ms
video 1/1 (frame 234/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 11 persons, 3 riders, 62.5ms
video 1/1 (frame 235/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 12 persons, 1 rider, 62.1ms
video 1/1 (frame 236/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 11 persons, 1 rider, 64.0ms
video 1/1 (frame 237/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 61.6ms
video 1/1 (frame 238/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 14 persons, 64.9ms
video 1/1 (frame 239/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 61.1ms
video 1/1 (frame 240/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 1 rider, 61.4ms
video 1/1 (frame 241/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 62.9ms
video 1/1 (frame 242/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 111.4ms
video 1/1 (frame 243/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 9 persons, 62.3ms
video 1/1 (frame 244/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 63.8ms
video 1/1 (frame 245/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 1 rider, 63.8ms
video 1/1 (frame 246/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 10 persons, 1 rider, 61.9ms
video 1/1 (frame 247/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 11 persons, 1 rider, 65.7ms
video 1/1 (frame 248/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 9 persons, 1 rider, 80.4ms
video 1/1 (frame 249/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 10 persons, 1 rider, 63.8ms
video 1/1 (frame 250/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 1 rider, 63.0ms
video 1/1 (frame 251/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 64.7ms
video 1/1 (frame 252/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 1 rider, 124.0ms

video 1/1 (frame 253/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 1 rider, 128.8ms
video 1/1 (frame 254/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 8 persons, 2 riders, 69.0ms
video 1/1 (frame 255/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 9 persons, 57.3ms
video 1/1 (frame 256/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 11 persons, 1 rider, 54.7ms
video 1/1 (frame 257/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 1 rider, 59.0ms
video 1/1 (frame 258/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 1 rider, 54.7ms
video 1/1 (frame 259/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 8 persons, 1 rider, 56.1ms
video 1/1 (frame 260/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
7 cars, 12 persons, 58.8ms
video 1/1 (frame 261/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 13 persons, 1 rider, 58.6ms
video 1/1 (frame 262/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 1 rider, 56.1ms
video 1/1 (frame 263/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 71.3ms
video 1/1 (frame 264/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 1 rider, 71.4ms
video 1/1 (frame 265/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 1 rider, 74.9ms
video 1/1 (frame 266/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 1 rider, 75.8ms
video 1/1 (frame 267/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 76.4ms
video 1/1 (frame 268/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 3 riders, 90.0ms
video 1/1 (frame 269/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 9 persons, 3 riders, 73.5ms
video 1/1 (frame 270/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 2 riders, 81.4ms
video 1/1 (frame 271/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 2 riders, 87.2ms
video 1/1 (frame 272/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 11 persons, 2 riders, 136.1ms
video 1/1 (frame 273/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 11 persons, 3 riders, 62.1ms
video 1/1 (frame 274/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 11 persons, 2 riders, 61.6ms
video 1/1 (frame 275/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 11 persons, 1 rider, 62.5ms
video 1/1 (frame 276/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 5 riders, 62.3ms
video 1/1 (frame 277/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 12 persons, 4 riders, 60.7ms
video 1/1 (frame 278/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 11 persons, 2 riders, 61.3ms
video 1/1 (frame 279/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 3 riders, 60.7ms
video 1/1 (frame 280/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
7 cars, 9 persons, 1 rider, 62.9ms

video 1/1 (frame 281/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 3 riders, 120.7ms
video 1/1 (frame 282/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 4 riders, 119.7ms
video 1/1 (frame 283/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 4 riders, 59.4ms
video 1/1 (frame 284/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
7 cars, 1 motor, 7 persons, 4 riders, 60.7ms
video 1/1 (frame 285/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 1 motor, 10 persons, 2 riders, 62.3ms
video 1/1 (frame 286/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 4 riders, 58.7ms
video 1/1 (frame 287/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 4 riders, 59.1ms
video 1/1 (frame 288/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 8 persons, 3 riders, 57.3ms
video 1/1 (frame 289/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 6 persons, 4 riders, 59.8ms
video 1/1 (frame 290/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 5 persons, 4 riders, 56.4ms
video 1/1 (frame 291/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 6 persons, 5 riders, 69.5ms
video 1/1 (frame 292/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 8 persons, 4 riders, 79.2ms
video 1/1 (frame 293/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 5 riders, 69.7ms
video 1/1 (frame 294/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 3 riders, 70.8ms
video 1/1 (frame 295/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 10 persons, 6 riders, 75.8ms
video 1/1 (frame 296/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 9 persons, 6 riders, 75.8ms
video 1/1 (frame 297/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 5 riders, 124.4ms
video 1/1 (frame 298/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 4 riders, 58.7ms
video 1/1 (frame 299/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 10 persons, 6 riders, 61.7ms
video 1/1 (frame 300/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 9 persons, 4 riders, 63.2ms
video 1/1 (frame 301/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 6 persons, 6 riders, 60.7ms
video 1/1 (frame 302/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 5 persons, 5 riders, 64.1ms
video 1/1 (frame 303/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 6 persons, 3 riders, 62.2ms
video 1/1 (frame 304/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 8 persons, 3 riders, 58.3ms
video 1/1 (frame 305/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 7 persons, 5 riders, 59.0ms
video 1/1 (frame 306/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 6 persons, 4 riders, 120.0ms
video 1/1 (frame 307/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 5 persons, 5 riders, 55.5ms
video 1/1 (frame 308/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 5 persons, 4 riders, 57.2ms

video 1/1 (frame 309/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 6 persons, 4 riders, 59.6ms
video 1/1 (frame 310/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 7 persons, 5 riders, 56.1ms
video 1/1 (frame 311/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 7 persons, 5 riders, 58.3ms
video 1/1 (frame 312/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 5 riders, 59.2ms
video 1/1 (frame 313/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 7 persons, 4 riders, 57.0ms
video 1/1 (frame 314/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 7 persons, 4 riders, 58.1ms
video 1/1 (frame 315/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 7 persons, 5 riders, 57.2ms
video 1/1 (frame 316/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 7 persons, 6 riders, 74.3ms
video 1/1 (frame 317/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 7 persons, 6 riders, 76.3ms
video 1/1 (frame 318/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 5 persons, 4 riders, 78.1ms
video 1/1 (frame 319/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 4 persons, 5 riders, 75.3ms
video 1/1 (frame 320/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 4 persons, 3 riders, 75.0ms
video 1/1 (frame 321/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 6 persons, 5 riders, 76.3ms
video 1/1 (frame 322/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 7 persons, 4 riders, 77.7ms
video 1/1 (frame 323/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 7 persons, 4 riders, 79.8ms
video 1/1 (frame 324/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 5 riders, 108.6ms
video 1/1 (frame 325/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 5 riders, 124.7ms
video 1/1 (frame 326/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 7 persons, 6 riders, 56.2ms
video 1/1 (frame 327/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 7 persons, 5 riders, 65.6ms
video 1/1 (frame 328/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 7 riders, 58.0ms
video 1/1 (frame 329/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 10 persons, 5 riders, 54.9ms
video 1/1 (frame 330/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 7 persons, 7 riders, 57.3ms
video 1/1 (frame 331/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 5 persons, 5 riders, 58.9ms
video 1/1 (frame 332/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 5 persons, 4 riders, 56.3ms
video 1/1 (frame 333/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 5 persons, 4 riders, 56.0ms
video 1/1 (frame 334/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 5 persons, 4 riders, 70.6ms
video 1/1 (frame 335/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 5 persons, 2 riders, 72.8ms
video 1/1 (frame 336/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 4 persons, 4 riders, 72.1ms

video 1/1 (frame 337/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 4 persons, 5 riders, 71.8ms
video 1/1 (frame 338/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 5 persons, 4 riders, 82.9ms
video 1/1 (frame 339/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 6 persons, 4 riders, 75.5ms
video 1/1 (frame 340/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 6 persons, 5 riders, 71.7ms
video 1/1 (frame 341/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 3 cars, 6 persons, 5 riders, 76.8ms
video 1/1 (frame 342/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 3 cars, 5 persons, 6 riders, 78.0ms
video 1/1 (frame 343/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 5 cars, 6 persons, 5 riders, 130.7ms
video 1/1 (frame 344/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 3 cars, 8 persons, 6 riders, 58.5ms
video 1/1 (frame 345/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 7 persons, 6 riders, 60.5ms
video 1/1 (frame 346/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 2 cars, 8 persons, 7 riders, 58.1ms
video 1/1 (frame 347/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 5 cars, 9 persons, 6 riders, 63.1ms
video 1/1 (frame 348/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 9 persons, 4 riders, 59.6ms
video 1/1 (frame 349/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 8 persons, 5 riders, 63.3ms
video 1/1 (frame 350/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 8 persons, 7 riders, 59.6ms
video 1/1 (frame 351/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 3 cars, 9 persons, 6 riders, 60.2ms
video 1/1 (frame 352/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 4 cars, 8 persons, 5 riders, 73.5ms
video 1/1 (frame 353/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 8 persons, 6 riders, 78.3ms
video 1/1 (frame 354/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 9 persons, 7 riders, 88.4ms
video 1/1 (frame 355/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 5 cars, 8 persons, 5 riders, 76.2ms
video 1/1 (frame 356/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 8 persons, 7 riders, 78.7ms
video 1/1 (frame 357/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 8 persons, 8 riders, 79.9ms
video 1/1 (frame 358/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 9 persons, 6 riders, 126.5ms
video 1/1 (frame 359/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 7 persons, 8 riders, 61.3ms
video 1/1 (frame 360/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 6 persons, 7 riders, 67.4ms
video 1/1 (frame 361/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 5 cars, 7 persons, 7 riders, 63.3ms
video 1/1 (frame 362/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 bikes, 5 cars, 7 persons, 6 riders, 61.0ms
video 1/1 (frame 363/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 6 cars, 7 persons, 7 riders, 62.7ms
video 1/1 (frame 364/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 7 persons, 6 riders, 61.3ms

video 1/1 (frame 365/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 7 persons, 8 riders, 60.8ms
video 1/1 (frame 366/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 6 persons, 6 riders, 66.2ms
video 1/1 (frame 367/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 7 persons, 7 riders, 69.2ms
video 1/1 (frame 368/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 5 cars, 6 persons, 7 riders, 75.3ms
video 1/1 (frame 369/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 7 persons, 6 riders, 70.7ms
video 1/1 (frame 370/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 9 persons, 8 riders, 76.0ms
video 1/1 (frame 371/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 9 persons, 5 riders, 98.1ms
video 1/1 (frame 372/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 7 persons, 7 riders, 119.5ms
video 1/1 (frame 373/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 7 persons, 6 riders, 57.5ms
video 1/1 (frame 374/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 6 persons, 6 riders, 55.6ms
video 1/1 (frame 375/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 7 riders, 54.6ms
video 1/1 (frame 376/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 8 persons, 6 riders, 56.4ms
video 1/1 (frame 377/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 7 riders, 58.6ms
video 1/1 (frame 378/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 6 cars, 8 persons, 7 riders, 56.3ms
video 1/1 (frame 379/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 6 cars, 8 persons, 7 riders, 53.5ms
video 1/1 (frame 380/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 7 cars, 7 persons, 7 riders, 60.6ms
video 1/1 (frame 381/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 9 persons, 5 riders, 70.7ms
video 1/1 (frame 382/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 9 persons, 7 riders, 75.4ms
video 1/1 (frame 383/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 6 cars, 9 persons, 7 riders, 72.5ms
video 1/1 (frame 384/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 6 persons, 7 riders, 76.7ms
video 1/1 (frame 385/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 1 motor, 9 persons, 7 riders, 77.6ms
video 1/1 (frame 386/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 1 motor, 10 persons, 4 riders, 75.8ms
video 1/1 (frame 387/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 2 motors, 9 persons, 4 riders, 76.8ms
video 1/1 (frame 388/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 11 persons, 5 riders, 81.8ms
video 1/1 (frame 389/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 7 persons, 3 riders, 129.6ms
video 1/1 (frame 390/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 10 persons, 6 riders, 61.0ms
video 1/1 (frame 391/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 7 persons, 4 riders, 60.9ms
video 1/1 (frame 392/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 7 persons, 6 riders, 66.4ms

video 1/1 (frame 393/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 8 persons, 4 riders, 62.8ms
video 1/1 (frame 394/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 7 persons, 6 riders, 60.2ms
video 1/1 (frame 395/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 1 motor, 7 persons, 5 riders, 76.4ms
video 1/1 (frame 396/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 2 motors, 7 persons, 4 riders, 63.0ms
video 1/1 (frame 397/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 7 cars, 6 persons, 3 riders, 59.4ms
video 1/1 (frame 398/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 8 persons, 5 riders, 122.4ms
video 1/1 (frame 399/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 7 persons, 3 riders, 57.3ms
video 1/1 (frame 400/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 7 persons, 5 riders, 55.8ms
video 1/1 (frame 401/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 6 persons, 4 riders, 59.5ms
video 1/1 (frame 402/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 6 persons, 5 riders, 55.2ms
video 1/1 (frame 403/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 1 motor, 9 persons, 3 riders, 60.5ms
video 1/1 (frame 404/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 8 persons, 2 riders, 55.3ms
video 1/1 (frame 405/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 9 persons, 4 riders, 59.3ms
video 1/1 (frame 406/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 1 motor, 7 persons, 6 riders, 69.1ms
video 1/1 (frame 407/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 1 motor, 8 persons, 3 riders, 70.2ms
video 1/1 (frame 408/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 10 persons, 5 riders, 77.6ms
video 1/1 (frame 409/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 10 persons, 5 riders, 72.4ms
video 1/1 (frame 410/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 10 persons, 4 riders, 87.3ms
video 1/1 (frame 411/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 9 persons, 4 riders, 81.6ms
video 1/1 (frame 412/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 11 persons, 2 riders, 80.3ms
video 1/1 (frame 413/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 11 persons, 2 riders, 127.7ms
video 1/1 (frame 414/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 8 persons, 2 riders, 126.2ms
video 1/1 (frame 415/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 3 riders, 62.2ms
video 1/1 (frame 416/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 2 riders, 63.6ms
video 1/1 (frame 417/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 2 riders, 62.9ms
video 1/1 (frame 418/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 11 persons, 1 rider, 63.0ms
video 1/1 (frame 419/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 9 persons, 2 riders, 62.7ms
video 1/1 (frame 420/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 2 riders, 63.4ms

video 1/1 (frame 421/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 1 motor, 9 persons, 2 riders, 63.9ms
video 1/1 (frame 422/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 2 riders, 63.8ms
video 1/1 (frame 423/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 7 persons, 2 riders, 117.7ms
video 1/1 (frame 424/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 8 persons, 2 riders, 129.1ms
video 1/1 (frame 425/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 7 persons, 3 riders, 61.4ms
video 1/1 (frame 426/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 8 persons, 2 riders, 59.7ms
video 1/1 (frame 427/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 9 persons, 1 rider, 54.8ms
video 1/1 (frame 428/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 11 persons, 1 rider, 58.9ms
video 1/1 (frame 429/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 12 persons, 1 rider, 59.1ms
video 1/1 (frame 430/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 2 motors, 12 persons, 57.8ms
video 1/1 (frame 431/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 12 persons, 1 rider, 58.6ms
video 1/1 (frame 432/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 1 motor, 11 persons, 55.3ms
video 1/1 (frame 433/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 bikes, 6 cars, 11 persons, 1 rider, 65.6ms
video 1/1 (frame 434/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 12 persons, 2 riders, 72.8ms
video 1/1 (frame 435/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 13 persons, 1 rider, 72.6ms
video 1/1 (frame 436/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 5 cars, 11 persons, 1 rider, 75.2ms
video 1/1 (frame 437/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 10 persons, 1 rider, 76.8ms
video 1/1 (frame 438/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 11 persons, 1 rider, 77.3ms
video 1/1 (frame 439/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 9 persons, 1 rider, 76.1ms
video 1/1 (frame 440/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 9 persons, 1 rider, 80.3ms
video 1/1 (frame 441/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 1 rider, 129.6ms
video 1/1 (frame 442/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 1 rider, 63.0ms
video 1/1 (frame 443/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 1 rider, 74.2ms
video 1/1 (frame 444/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
3 cars, 10 persons, 1 rider, 63.2ms
video 1/1 (frame 445/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 1 motor, 9 persons, 2 riders, 63.4ms
video 1/1 (frame 446/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 10 persons, 1 rider, 64.1ms
video 1/1 (frame 447/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 9 persons, 60.7ms
video 1/1 (frame 448/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 8 persons, 1 rider, 60.1ms

video 1/1 (frame 449/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 cars, 10 persons, 1 rider, 60.2ms
video 1/1 (frame 450/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 6 cars, 10 persons, 2 riders, 81.6ms
video 1/1 (frame 451/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
5 cars, 9 persons, 1 rider, 123.3ms
video 1/1 (frame 452/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 4 cars, 1 motor, 9 persons, 1 rider, 60.8ms
video 1/1 (frame 453/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 9 persons, 2 riders, 60.6ms
video 1/1 (frame 454/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
4 cars, 10 persons, 1 rider, 58.4ms
video 1/1 (frame 455/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 3 cars, 7 persons, 59.6ms
video 1/1 (frame 456/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 1 car, 8 persons, 1 rider, 58.0ms
video 1/1 (frame 457/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 2 cars, 7 persons, 59.1ms
video 1/1 (frame 458/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 8 persons, 59.7ms
video 1/1 (frame 459/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 8 persons, 1 rider, 56.8ms
video 1/1 (frame 460/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 6 persons, 60.2ms
video 1/1 (frame 461/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 5 persons, 1 rider, 72.8ms
video 1/1 (frame 462/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 6 persons, 1 rider, 73.8ms
video 1/1 (frame 463/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 1 motor, 7 persons, 1 rider, 74.3ms
video 1/1 (frame 464/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 cars, 1 motor, 7 persons, 1 rider, 75.8ms
video 1/1 (frame 465/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 7 persons, 1 rider, 80.6ms
video 1/1 (frame 466/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 9 persons, 1 rider, 75.4ms
video 1/1 (frame 467/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
8 persons, 78.4ms
video 1/1 (frame 468/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
7 persons, 80.4ms
video 1/1 (frame 469/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 6 persons, 78.1ms
video 1/1 (frame 470/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
8 persons, 1 rider, 79.2ms
video 1/1 (frame 471/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
8 persons, 78.4ms
video 1/1 (frame 472/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
7 persons, 1 rider, 131.0ms
video 1/1 (frame 473/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
8 persons, 1 rider, 125.0ms
video 1/1 (frame 474/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
9 persons, 2 riders, 60.4ms
video 1/1 (frame 475/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 persons, 1 rider, 59.5ms
video 1/1 (frame 476/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 9 persons, 2 riders, 62.7ms

video 1/1 (frame 477/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 persons, 1 rider, 59.4ms
video 1/1 (frame 478/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 persons, 3 riders, 60.9ms
video 1/1 (frame 479/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 7 persons, 2 riders, 59.5ms
video 1/1 (frame 480/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 8 persons, 2 riders, 64.9ms
video 1/1 (frame 481/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 5 persons, 3 riders, 66.2ms
video 1/1 (frame 482/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 6 persons, 3 riders, 62.1ms
video 1/1 (frame 483/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 8 persons, 2 riders, 122.3ms
video 1/1 (frame 484/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 7 persons, 2 riders, 60.1ms
video 1/1 (frame 485/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 8 persons, 2 riders, 59.3ms
video 1/1 (frame 486/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
2 motors, 6 persons, 2 riders, 58.4ms
video 1/1 (frame 487/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 5 persons, 2 riders, 63.8ms
video 1/1 (frame 488/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 6 persons, 1 rider, 60.8ms
video 1/1 (frame 489/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 6 persons, 2 riders, 57.8ms
video 1/1 (frame 490/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 8 persons, 2 riders, 69.7ms
video 1/1 (frame 491/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 8 persons, 2 riders, 66.0ms
video 1/1 (frame 492/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 8 persons, 2 riders, 80.4ms
video 1/1 (frame 493/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 7 persons, 2 riders, 71.3ms
video 1/1 (frame 494/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 7 persons, 2 riders, 83.3ms
video 1/1 (frame 495/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 bike, 1 motor, 7 persons, 3 riders, 75.5ms
video 1/1 (frame 496/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 6 persons, 2 riders, 78.1ms
video 1/1 (frame 497/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
6 persons, 1 rider, 77.6ms
video 1/1 (frame 498/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 motor, 5 persons, 2 riders, 79.1ms
video 1/1 (frame 499/504) D:\ery\School\Jupyter Notebooks\datasets\test.mp4: 640x640
1 car, 1 motor, 6 persons, 1 rider, 77.9ms
Speed: 5.1ms preprocess, 71.6ms inference, 1.2ms postprocess per image at shape (1,
3, 640, 640)
Results saved to: D:\ery\School\Jupyter Notebooks\datasets\test_tracked.mp4
CSV data saved to: D:\ery\School\Jupyter Notebooks\datasets\test_object_counts.csv
Final counts - Vehicles: 18, Pedestrians: 88