```
\begin{tabular}{ll} !git clone & $\frac{https://github.com/ultralytics/yolov5}{$cd yolov5} \\ !pip install -r requirements.txt \\ \end{tabular}
```

```
- 664.8/664.8 MB 2.4 MB/s eta 0:00:00
Downloading nvidia_cufft_cu12-11.2.1.3-py3-none-manylinux2014_x86_64.whl (211.5 MB)
                                           - 211.5/211.5 MB 5.6 MB/s eta 0:00:00
Downloading nvidia_curand_cu12-10.3.5.147-py3-none-manylinux2014_x86_64.whl (56.3 MB)
                                           56.3/56.3 MB 13.0 MB/s eta 0:00:00
Downloading nvidia_cusolver_cu12-11.6.1.9-py3-none-manylinux2014_x86_64.whl (127.9 MB)
                                           127.9/127.9 MB 7.5 MB/s eta 0:00:00
Downloading nvidia_cusparse_cu12-12.3.1.170-py3-none-manylinux2014_x86_64.whl (207.5 MB)
                                           - 207.5/207.5 MB 6.4 MB/s eta 0:00:00
Downloading nvidia_nvjitlink_cu12-12.4.127-py3-none-manylinux2014_x86_64.whl (21.1 MB)
                                           - 21.1/21.1 MB 105.4 MB/s eta 0:00:00
Downloading ultralytics-8.3.122-py3-none-any.whl (1.0 MB)
                                           1.0/1.0 MB 68.5 MB/s eta 0:00:00
Downloading ultralytics_thop-2.0.14-py3-none-any.whl (26 kB)
Installing collected packages: nvidia-nvjitlink-cu12, nvidia-curand-cu12, nvidia-cufft-cu12, nvidia-cuda-runtime-cu12,
 Attempting uninstall: nvidia-nvjitlink-cu12
    Found existing installation: nvidia-nvjitlink-cu12 12.5.82
    Uninstalling nvidia-nvjitlink-cu12-12.5.82:
      Successfully uninstalled nvidia-nvjitlink-cu12-12.5.82
  Attempting uninstall: nvidia-curand-cu12
    Found existing installation: nvidia-curand-cu12 10.3.6.82
   Uninstalling nvidia-curand-cu12-10.3.6.82:
     Successfully uninstalled nvidia-curand-cu12-10.3.6.82
  Attempting uninstall: nvidia-cufft-cu12
    Found existing installation: nvidia-cufft-cu12 11.2.3.61
    Uninstalling nvidia-cufft-cu12-11.2.3.61:
     Successfully uninstalled nvidia-cufft-cu12-11.2.3.61
  Attempting uninstall: nvidia-cuda-runtime-cu12
    Found existing installation: nvidia-cuda-runtime-cu12 12.5.82
    Uninstalling nvidia-cuda-runtime-cu12-12.5.82:
     Successfully uninstalled nvidia-cuda-runtime-cu12-12.5.82
  Attempting uninstall: nvidia-cuda-nvrtc-cu12
    Found existing installation: nvidia-cuda-nvrtc-cu12 12.5.82
    Uninstalling nvidia-cuda-nvrtc-cu12-12.5.82:
      Successfully uninstalled nvidia-cuda-nvrtc-cu12-12.5.82
  Attempting uninstall: nvidia-cuda-cupti-cu12
    Found existing installation: nvidia-cuda-cupti-cu12 12.5.82
    Uninstalling nvidia-cuda-cupti-cu12-12.5.82:
     Successfully uninstalled nvidia-cuda-cupti-cu12-12.5.82
  Attempting uninstall: nvidia-cublas-cu12
    Found existing installation: nvidia-cublas-cu12 12.5.3.2
    Uninstalling nvidia-cublas-cu12-12.5.3.2:
      Successfully uninstalled nvidia-cublas-cu12-12.5.3.2
 Attempting uninstall: nvidia-cusparse-cu12
    Found existing installation: nvidia-cusparse-cu12 12.5.1.3
    Uninstalling nvidia-cusparse-cu12-12.5.1.3:
      Successfully uninstalled nvidia-cusparse-cu12-12.5.1.3
  Attempting uninstall: nvidia-cudnn-cu12
    Found existing installation: nvidia-cudnn-cu12 9.3.0.75
    Uninstalling nvidia-cudnn-cu12-9.3.0.75:
     Successfully uninstalled nvidia-cudnn-cu12-9.3.0.75
  Attempting uninstall: nvidia-cusolver-cu12
    Found existing installation: nvidia-cusolver-cu12 11.6.3.83
    Uninstalling nvidia-cusolver-cu12-11.6.3.83:
      Successfully uninstalled nvidia-cusolver-cu12-11.6.3.83
Successfully installed nvidia-cublas-cu12-12.4.5.8 nvidia-cuda-cupti-cu12-12.4.127 nvidia-cuda-nvrtc-cu12-12.4.127 nvic 🕡
```

Install required packages

!pip install ultralytics supervision pytesseract
!apt-get update && apt-get install -y libgl1-mesa-glx
!apt-get install tesseract-ocr -y



```
Requirement already satisfied: nvidia-cusparselt-cu12==0.6.2 in /usr/local/lib/python3.11/dist-packages (from torch>=1.
Requirement already satisfied: nvidia-nccl-cu12==2.21.5 in /usr/local/lib/python3.11/dist-packages (from torch>=1.8.0->
Requirement already satisfied: nvidia-nvtx-cu12==12.4.127 in /usr/local/lib/python3.11/dist-packages (from torch>=1.8.6
Requirement already satisfied: nvidia-nvjitlink-cu12==12.4.127 in /usr/local/lib/python3.11/dist-packages (from torch>=
Requirement already satisfied: triton==3.2.0 in /usr/local/lib/python3.11/dist-packages (from torch>=1.8.0->ultralytics
Requirement already satisfied: sympy==1.13.1 in /usr/local/lib/python3.11/dist-packages (from torch>=1.8.0->ultralytics
Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.11/dist-packages (from sympy==1.13.1->torch
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.7->matplotl
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.11/dist-packages (from jinja2->torch>=1.8.0->u
Downloading supervision-0.25.1-py3-none-any.whl (181 kB)
                                             - 181.5/181.5 kB 6.1 MB/s eta 0:00:00
Downloading pytesseract-0.3.13-py3-none-any.whl (14 kB)
Installing collected packages: pytesseract, supervision
Successfully installed pytesseract-0.3.13 supervision-0.25.1
Get:1 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64 InRelease [1,581 B]
Get:2 <a href="https://cloud.r-project.org/bin/linux/ubuntu">https://cloud.r-project.org/bin/linux/ubuntu</a> jammy-cran40/ InRelease [3,632 B]
Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:4 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:5 https://r2u.stat.illinois.edu/ubuntu jammy InRelease [6,555 B]
Get:6 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86 64 Packages [1,607 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Hit:8 <a href="https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu">https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu</a> jammy InRelease
Hit:9 https://ppa.launchpadcontent.net/graphics-drivers/ppa/ubuntu jammy InRelease
Get:10 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Hit:11 https://ppa.launchpadcontent.net/ubuntugis/ppa/ubuntu jammy InRelease
Get:12 https://r2u.stat.illinois.edu/ubuntu jammy/main all Packages [8,869 kB]
Get:13 <a href="http://security.ubuntu.com/ubuntu">http://security.ubuntu.com/ubuntu</a> jammy-security/universe amd64 Packages [1,244 kB]
Get:14 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2,844 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,544 kB]
Get:16 <a href="https://r2u.stat.illinois.edu/ubuntu">https://r2u.stat.illinois.edu/ubuntu</a> jammy/main amd64 Packages [2,701 kB]
Get:17 <a href="http://archive.ubuntu.com/ubuntu">http://archive.ubuntu.com/ubuntu</a> jammy-updates/main amd64 Packages [3,155 kB]
Fetched 22.4 MB in 5s (4,186 kB/s)
Reading package lists... Done
W: Skipping acquire of configured file 'main/source/Sources' as repository 'https://r2u.stat.illinois.edu/ubuntu jammy
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
libgl1-mesa-glx is already the newest version (23.0.4-0ubuntu1\sim22.04.1).
0 upgraded, 0 newly installed, 0 to remove and 38 not upgraded.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
tesseract-ocr is already the newest version (4.1.1-2.1build1).
0 ungraded. 0 newly installed. 0 to remove and 38 not ungraded.
```

 $! \verb|pip install paddleocr paddlepaddle|\\$

```
Requirement already satisfied: decorator in /usr/local/lib/python3.11/dist-packages (from paddlepaddle) (4.4.2)
Collecting astor (from paddlepaddle)
Downloading astor-0.8.1-py2.py3-none-any.whl.metadata (4.2 kB)
Collecting opt_einsum==3.3.0 (from paddlepaddle)
```

```
Downloading astor-0.8.1-py2.py3-none-any.whl (27 kB)
     Downloading lmdb-1.6.2-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (297 kB)
                                                 - 297.8/297.8 kB 26.5 MB/s eta 0:00:00
     Downloading pyclipper-1.3.0.post6-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (969 kB)
                                                 - 969.6/969.6 kB 61.3 MB/s eta 0:00:00
     Downloading python_docx-1.1.2-py3-none-any.whl (244 kB)
                                                 - 244.3/244.3 kB 22.5 MB/s eta 0:00:00
     Downloading \ rapidfuzz - 3.13.0 - cp311 - cp311 - manylinux \\ 2 - 17 \\ \_ x86 \\ \_ 64. \\ manylinux \\ 2014 \\ \_ x86 \\ \_ 64. \\ whl \ (3.1 \ MB)
                                                 - 3.1/3.1 MB 97.6 MB/s eta 0:00:00
     Building wheels for collected packages: fire
       Building wheel for fire (setup.py) ... done
       Created wheel for fire: filename=fire-0.7.0-py3-none-any.whl size=114249 sha256=7e75501ed4a273ee790d7e14a1a1d47ccc184
       Stored in directory: /root/.cache/pip/wheels/46/54/24/1624fd5b8674eb1188623f7e8e17cdf7c0f6c24b609dfb8a89
     Successfully built fire
     Installing collected packages: pyclipper, lmdb, rapidfuzz, python-docx, opt_einsum, fire, astor, paddlepaddle, paddleox
       Attempting uninstall: opt_einsum
         Found existing installation: opt_einsum 3.4.0
         Uninstalling opt_einsum-3.4.0:
           Successfully uninstalled opt_einsum-3.4.0
     Successfully installed astor-0.8.1 fire-0.7.0 lmdb-1.6.2 opt_einsum-3.3.0 paddleocr-2.10.0 paddlepaddle-3.0.0 pyclipper
# Traffic Compliance System - Deep Learning Project
# This notebook implements a comprehensive traffic compliance detection system capable of:
# 1. Detecting standard traffic violations (speeding, lane changes)
# 2. Detecting multiple riders on motorcycles (>2 people)
# 3. Detecting riders without helmets
# 4. License plate recognition
import os
import cv2
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
from datetime import datetime
from google.colab import files, drive
import torch
from IPython.display import display, HTML, Image
import pytesseract
from PIL import Image as PILImage
from ultralytics import YOLO
import supervision as sv
from IPython.display import Video
# Mount Google Drive for saving results (optional but recommended)
# drive.mount('/content/drive')
# Create project directory
PROJECT_DIR = '/content/drive/MyDrive/DL Project/traffic_compliance_system'
os.makedirs(PROJECT_DIR, exist_ok=True)
os.makedirs(f"{PROJECT_DIR}/detected_violations", exist_ok=True)
os.makedirs(f"{PROJECT_DIR}/processed_frames", exist_ok=True)
# 2nd installation code
video_path = "/content/drive/MyDrive/Uploaded videos/traffic3.mp4"
!python "/content/drive/MyDrive/DL Project/Scripts/main.py" "{video_path}"
class_names = ['helmet', 'mobile_usage', 'no_helmet', 'triple_ride']
!python /content/yolov5/detect.py --weights "/content/drive/MyDrive/DL Project/model/best_3rider.pt" \
                   --source "/content/drive/MyDrive/DL Project/traffic_compliance_system/processed_video.mp4" \
                  --conf 0.3 \
                  --save-txt \
                  --save-conf \
                  --project /content/traffic_compliance_outputs \
                  --name filtered_output \
                  --exist-ok
!python "/content/drive/MyDrive/DL Project/Scripts/emergency.py"
!python "/content/drive/MyDrive/DL Project/Scripts/seatbelt.py"
```

output_path = "/content/traffic_compliance_outputs/filtered_output/processed_video(after_seatbelt).mp4"
display(Video(output_path, embed=True))

```
→ Creating new Ultralytics Settings v0.0.6 file 🔽
      View Ultralytics Settings with 'yolo settings' or at '/root/.config/Ultralytics/settings.json'
Update Settings with 'yolo settings key=value', i.e. 'yolo settings runs_dir=path/to/dir'. For help see <a href="https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.ultrai.org/https://docs.u
      Enhanced Traffic Compliance System - Deep Learning Project
                                       -----
      This system can detect:
      1. Standard traffic violations (speeding, lane changes)
      2. Multiple riders on motorcycles (>2 people)
      3. Riders without helmets
      4. License plate recognition
      Downloading <a href="https://github.com/ultralytics/assets/releases/download/v8.3.0/yolov8n.pt">https://github.com/ultralytics/assets/releases/download/v8.3.0/yolov8n.pt</a> to 'yolov8n.pt'...
      100% 6.25M/6.25M [00:00<00:00, 93.0MB/s]
      Using general purpose model for helmet detection. Fine-tuning recommended for better results.
      Processing video for violations...
      0: 384x640 1 car, 4 motorcycles, 1 bus, 52.4ms
      Speed: 6.0ms preprocess, 52.4ms inference, 409.9ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 12 persons, 7.5ms
      Speed: 1.3ms preprocess, 7.5ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 12 persons, 1 bicycle, 1 car, 4 motorcycles, 1 bus, 2 umbrellas, 7.9ms
      Speed: 1.6ms preprocess, 7.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 1 car, 3 motorcycles, 1 bus, 12.6ms
      Speed: 2.1ms preprocess, 12.6ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 12 persons, 13.9ms
      Speed: 1.9ms preprocess, 13.9ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 12 persons, 2 bicycles, 1 car, 3 motorcycles, 1 bus, 2 umbrellas, 13.2ms
      Speed: 1.7ms preprocess, 13.2ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 1 car, 5 motorcycles, 1 bus, 14.4ms
      Speed: 1.8ms preprocess, 14.4ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 13 persons, 19.0ms
      Speed: 1.8ms preprocess, 19.0ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 13 persons, 1 bicycle, 1 car, 5 motorcycles, 1 bus, 1 umbrella, 11.9ms
      Speed: 1.9ms preprocess, 11.9ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 1 car, 5 motorcycles, 1 bus, 19.8ms
      Speed: 1.8ms preprocess, 19.8ms inference, 5.8ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 12 persons, 13.7ms
      Speed: 1.7ms preprocess, 13.7ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 12 persons, 3 bicycles, 1 car, 5 motorcycles, 1 bus, 1 umbrella, 8.7ms
      Speed: 2.0ms preprocess, 8.7ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 1 car, 5 motorcycles, 8.8ms
      Speed: 1.7ms preprocess, 8.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 13 persons, 12.6ms
      Speed: 1.7ms preprocess, 12.6ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 13 persons, 1 bicycle, 1 car, 5 motorcycles, 9.3ms
      Speed: 1.2ms preprocess, 9.3ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 1 car, 3 motorcycles, 1 truck, 8.2ms
      Speed: 1.6ms preprocess, 8.2ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 12 persons, 7.9ms
      Speed: 1.6ms preprocess, 7.9ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 12 persons, 1 bicycle, 1 car, 3 motorcycles, 1 truck, 8.4ms
      Speed: 1.6ms preprocess, 8.4ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 1 car, 3 motorcycles, 9.0ms
      Speed: 1.7ms preprocess, 9.0ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 13 persons, 8.5ms
      Speed: 1.6ms preprocess, 8.5ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 13 persons, 3 bicycles, 1 car, 3 motorcycles, 8.4ms
      Speed: 1.6ms preprocess, 8.4ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 1 car, 4 motorcycles, 11.2ms
      Speed: 1.7ms preprocess, 11.2ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
      0: 384x640 13 persons, 8.7ms
      Speed: 1.9ms preprocess, 8.7ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
```

```
0: 384x640 13 persons, 1 bicycle, 1 car, 4 motorcycles, 1 umbrella, 8.8ms
Speed: 1.6ms preprocess, 8.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 8.8ms
Speed: 2.3ms preprocess, 8.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 11.2ms
Speed: 1.7ms preprocess, 11.2ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 2 bicycles, 1 car, 4 motorcycles, 1 umbrella, 8.7ms
Speed: 1.7ms preprocess, 8.7ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 8.7ms
Speed: 1.6ms preprocess, 8.7ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 9.7ms
Speed: 1.6ms preprocess, 9.7ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 car, 4 motorcycles, 1 umbrella, 8.7ms
Speed: 1.8ms preprocess, 8.7ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 8.6ms
Speed: 1.8ms preprocess, 8.6ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 8.9ms
Speed: 1.6ms preprocess, 8.9ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 car, 4 motorcycles, 9.0ms
Speed: 1.7ms preprocess, 9.0ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 1 truck, 12.5ms
Speed: 1.9ms preprocess, 12.5ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 12.2ms
Speed: 2.0ms preprocess, 12.2ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 car, 4 motorcycles, 1 truck, 1 traffic light, 1 umbrella, 9.1ms
Speed: 1.2ms preprocess, 9.1ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 1 truck, 9.2ms
Speed: 4.2ms preprocess, 9.2ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 9.8ms
Speed: 1.6ms preprocess, 9.8ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 car, 4 motorcycles, 1 truck, 13.7ms
Speed: 1.8ms preprocess, 13.7ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 1 truck, 11.8ms
Speed: 1.7ms preprocess, 11.8ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 12.2ms
Speed: 1.8ms preprocess, 12.2ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 car, 4 motorcycles, 1 truck, 1 umbrella, 12.5ms
Speed: 1.9ms preprocess, 12.5ms inference, 4.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 1 truck, 13.2ms
Speed: 1.7ms preprocess, 13.2ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 9.8ms
Speed: 1.8ms preprocess, 9.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 car, 4 motorcycles, 1 truck, 1 umbrella, 12.8ms
Speed: 1.7ms preprocess, 12.8ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 1 truck, 10.9ms
Speed: 1.8ms preprocess, 10.9ms inference, 3.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 15.1ms
Speed: 1.6ms preprocess, 15.1ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 2 bicycles, 1 car, 3 motorcycles, 1 truck, 2 umbrellas, 12.0ms
Speed: 1.8ms preprocess, 12.0ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 1 truck, 13.3ms
Speed: 1.8ms preprocess, 13.3ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 11.9ms
Speed: 1.7ms preprocess, 11.9ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 1 bicycle, 1 car, 2 motorcycles, 1 truck, 2 umbrellas, 12.3ms
Speed: 1.6ms preprocess, 12.3ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
```

```
0: 384x640 1 car, 3 motorcycles, 1 truck, 12.3ms
Speed: 1.8ms preprocess, 12.3ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 11.8ms
Speed: 1.5ms preprocess, 11.8ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 car, 3 motorcycles, 1 truck, 1 umbrella, 11.7ms
Speed: 1.6ms preprocess, 11.7ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 5 motorcycles, 1 truck, 11.9ms
Speed: 1.7ms preprocess, 11.9ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 12.8ms
Speed: 1.5ms preprocess, 12.8ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 car, 5 motorcycles, 1 truck, 1 umbrella, 13.0ms
Speed: 1.7ms preprocess, 13.0ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 640x576 (no detections), 49.1ms
Speed: 10.9ms preprocess, 49.1ms inference, 0.4ms postprocess per image at shape (1, 3, 640, 576)
0: 384x640 1 car, 3 motorcycles, 1 truck, 7.4ms
Speed: 2.0ms preprocess, 7.4ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 car, 3 motorcycles, 1 truck, 1 umbrella, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 5 motorcycles, 1 truck, 6.7ms
Speed: 2.0ms preprocess, 6.7ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 7.3ms
Speed: 1.2ms preprocess, 7.3ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 car, 5 motorcycles, 1 truck, 1 umbrella, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 3 motorcycles, 1 truck, 7.3ms
Speed: 1.5ms preprocess, 7.3ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 7.4ms
Speed: 1.3ms preprocess, 7.4ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 2 cars, 3 motorcycles, 1 truck, 1 umbrella, 7.1ms
Speed: 1.3ms preprocess, 7.1ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 4 motorcycles, 1 truck, 7.2ms
Speed: 1.9ms preprocess, 7.2ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 7.6ms
Speed: 1.3ms preprocess, 7.6ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 2 cars, 4 motorcycles, 1 truck, 7.1ms
Speed: 1.2ms preprocess, 7.1ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 1 truck, 6.8ms
Speed: 1.7ms preprocess, 6.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 bicycle, 1 car, 4 motorcycles, 1 truck, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 1 truck, 7.2ms
Speed: 1.5ms preprocess, 7.2ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 2 bicycles, 1 car, 4 motorcycles, 1 truck, 2 umbrellas, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 4 motorcycles, 1 truck, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 2 cars, 4 motorcycles, 1 truck, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
```

0: 384x640 1 car, 4 motorcycles, 1 truck, 6.9ms

```
Speed: 1.6ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 8.0ms
Speed: 1.2ms preprocess, 8.0ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 car, 4 motorcycles, 1 truck, 1 umbrella, 7.2ms
Speed: 1.2ms preprocess, 7.2ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 6 motorcycles, 1 truck, 11.1ms
Speed: 1.5ms preprocess, 11.1ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 13.1ms
Speed: 1.7ms preprocess, 13.1ms inference, 2.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 car, 6 motorcycles, 1 truck, 1 umbrella, 8.6ms
Speed: 1.5ms preprocess, 8.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 5 motorcycles, 1 truck, 7.0ms
Speed: 1.4ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 7.3ms
Speed: 1.3ms preprocess, 7.3ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 car, 5 motorcycles, 1 truck, 1 umbrella, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 5 motorcycles, 1 truck, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 car, 5 motorcycles, 1 truck, 2 umbrellas, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 1 truck, 7.5ms
Speed: 1.7ms preprocess, 7.5ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 19 persons, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 19 persons, 4 motorcycles, 1 truck, 2 umbrellas, 7.4ms
Speed: 1.2ms preprocess, 7.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 640x352 (no detections), 45.3ms
Speed: 1.5ms preprocess, 45.3ms inference, 0.4ms postprocess per image at shape (1, 3, 640, 352)
0: 384x640 5 motorcycles, 1 truck, 7.1ms
Speed: 1.8ms preprocess, 7.1ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 19 persons, 7.1ms
Speed: 1.4ms preprocess, 7.1ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 19 persons, 5 motorcycles, 1 truck, 2 umbrellas, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 640x416 (no detections), 41.1ms
Speed: 2.0ms preprocess, 41.1ms inference, 0.5ms postprocess per image at shape (1, 3, 640, 416)
0: 384x640 3 motorcycles, 1 truck, 7.1ms
Speed: 1.5ms preprocess, 7.1ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 18 persons, 7.4ms
Speed: 1.2ms preprocess, 7.4ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 18 persons, 3 motorcycles, 1 truck, 7.4ms
Speed: 1.2ms preprocess, 7.4ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 640x352 (no detections), 10.0ms
Speed: 1.6ms preprocess, 10.0ms inference, 0.3ms postprocess per image at shape (1, 3, 640, 352)
0: 384x640 3 motorcycles, 2 buss, 1 truck, 7.2ms
Speed: 1.4ms preprocess, 7.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 17 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 17 persons, 3 motorcycles, 2 buss, 1 truck, 2 umbrellas, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 640x352 (no detections), 8.7ms
Speed: 1.3ms preprocess, 8.7ms inference, 0.3ms postprocess per image at shape (1, 3, 640, 352)
Processed 100 frames out of 572 (17.5%)
```

a. 384v640 3 motorcycles 1 truck 9 Ams

```
Speed: 2.0ms preprocess, 9.0ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 20 persons, 8.8ms
Speed: 1.7ms preprocess, 8.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 20 persons, 3 motorcycles, 1 truck, 1 umbrella, 10.2ms
Speed: 1.7ms preprocess, 10.2ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 640x384 (no detections), 64.4ms
Speed: 2.2ms preprocess, 64.4ms inference, 0.5ms postprocess per image at shape (1, 3, 640, 384)
0: 384x640 1 car, 3 motorcycles, 1 truck, 11.3ms
Speed: 3.9ms preprocess, 11.3ms inference, 12.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 17 persons, 21.6ms
Speed: 3.6ms preprocess, 21.6ms inference, 8.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 17 persons, 1 car, 3 motorcycles, 1 truck, 1 umbrella, 25.6ms
Speed: 3.9ms preprocess, 25.6ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 640x384 (no detections), 25.2ms
Speed: 15.8ms preprocess, 25.2ms inference, 0.5ms postprocess per image at shape (1, 3, 640, 384)
0: 384x640 3 motorcycles, 1 truck, 30.7ms
Speed: 1.9ms preprocess, 30.7ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 40.5ms
Speed: 26.8ms preprocess, 40.5ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 3 motorcycles, 1 truck, 1 umbrella, 13.7ms
Speed: 8.3ms preprocess, 13.7ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 1 truck, 8.9ms
Speed: 2.5ms preprocess, 8.9ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 8.5ms
Speed: 2.6ms preprocess, 8.5ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 4 motorcycles, 1 truck, 1 umbrella, 8.3ms
Speed: 1.7ms preprocess, 8.3ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 1 truck, 9.0ms
Speed: 1.8ms preprocess, 9.0ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 8.4ms
Speed: 1.6ms preprocess, 8.4ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 bicycle, 1 car, 3 motorcycles, 1 truck, 2 umbrellas, 8.1ms
Speed: 1.6ms preprocess, 8.1ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 1 truck, 8.6ms
Speed: 1.8ms preprocess, 8.6ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 8.8ms
Speed: 1.7ms preprocess, 8.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 2 bicycles, 4 motorcycles, 1 truck, 2 umbrellas, 8.9ms
Speed: 1.6ms preprocess, 8.9ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 motorcycles, 1 truck, 12.0ms
Speed: 1.9ms preprocess, 12.0ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 13.1ms
Speed: 1.7ms preprocess, 13.1ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 2 bicycles, 7 motorcycles, 1 truck, 2 umbrellas, 10.2ms
Speed: 1.4ms preprocess, 10.2ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 14.9ms
Speed: 3.0ms preprocess, 14.9ms inference, 3.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 14.6ms
Speed: 2.0ms preprocess, 14.6ms inference, 3.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 2 bicycles, 4 motorcycles, 2 umbrellas, 13.6ms
Speed: 1.7ms preprocess, 13.6ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 11.8ms
Speed: 2.3ms preprocess, 11.8ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 11.9ms
Speed: 1.7ms preprocess, 11.9ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 2 bicycles, 3 motorcycles, 1 truck, 13.2ms
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```
Speed: 1./ms preprocess, 13.2ms interence, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 1 truck, 9.9ms
Speed: 1.8ms preprocess, 9.9ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 bicycle, 1 car, 2 motorcycles, 1 truck, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 1 truck, 6.8ms
Speed: 1.3ms preprocess, 6.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.6ms
Speed: 1.1ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 bicycle, 1 car, 3 motorcycles, 1 truck, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 1 truck, 6.8ms
Speed: 1.3ms preprocess, 6.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 bicycle, 1 car, 2 motorcycles, 1 truck, 9.0ms
Speed: 1.3ms preprocess, 9.0ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 1 truck, 7.0ms
Speed: 1.9ms preprocess, 7.0ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 bicycle, 1 car, 3 motorcycles, 1 truck, 6.7ms
Speed: 1.3ms preprocess, 6.7ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 1 truck, 7.3ms
Speed: 1.5ms preprocess, 7.3ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.8ms
Speed: 1.3ms preprocess, 6.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 motorcycle, 1 truck, 7.2ms
Speed: 1.3ms preprocess, 7.2ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 7.2ms
Speed: 1.5ms preprocess, 7.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 2 motorcycles, 1 truck, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 6.9ms
Speed: 1.3ms preprocess, 6.9ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 6.4ms
Speed: 1.1ms preprocess, 6.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 2 motorcycles, 1 truck, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 9.9ms
Speed: 1.8ms preprocess, 9.9ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 1 bicycle, 3 motorcycles, 1 truck, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 9.1ms
Speed: 1.7ms preprocess, 9.1ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 6.5ms
Speed: 1.4ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 1 bicycle, 3 motorcycles, 1 truck, 9.6ms
Speed: 1.5ms preprocess, 9.6ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 motorcycles, 1 truck, 12.0ms
Speed: 1.8ms preprocess, 12.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
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0: 384x640 14 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 bicycle, 5 motorcycles, 1 truck, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 7.1ms
Speed: 1.2ms preprocess, 7.1ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 7.0ms
Speed: 1.1ms preprocess, 7.0ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 1 bicycle, 3 motorcycles, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 6.9ms
Speed: 1.8ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 1 bicycle, 1 car, 3 motorcycles, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 7.2ms
Speed: 1.7ms preprocess, 7.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 6.7ms
Speed: 1.3ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 bicycle, 1 car, 3 motorcycles, 1 umbrella, 7.0ms
Speed: 2.4ms preprocess, 7.0ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 4 motorcycles, 7.1ms
Speed: 1.6ms preprocess, 7.1ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 6.4ms
Speed: 1.2ms preprocess, 6.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 bicycle, 1 car, 4 motorcycles, 1 umbrella, 6.7ms
Speed: 1.3ms preprocess, 6.7ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 bus, 6.7ms
Speed: 1.3ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.4ms
Speed: 1.1ms preprocess, 6.4ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 bicycle, 3 motorcycles, 1 bus, 1 umbrella, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 7.1ms
Speed: 1.7ms preprocess, 7.1ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 7.5ms
Speed: 1.2ms preprocess, 7.5ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 1 bicycle, 4 motorcycles, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 7.2ms
Speed: 1.7ms preprocess, 7.2ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 bicycle, 2 motorcycles, 1 truck, 6.9ms
Speed: 1.4ms preprocess, 6.9ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 6.8ms
Speed: 2.3ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 6.8ms
Speed: 1.1ms preprocess, 6.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 bicycle, 2 motorcycles, 2 umbrellas, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 7.2ms
Speed: 1.5ms preprocess, 7.2ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
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```
0: 384x640 15 persons, 2 motorcycles, 1 umbrella, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 7.6ms
Speed: 1.8ms preprocess, 7.6ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.4ms
Speed: 1.2ms preprocess, 6.4ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 bicycle, 2 motorcycles, 2 umbrellas, 8.2ms
Speed: 1.2ms preprocess, 8.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 6.8ms
Speed: 1.6ms preprocess, 6.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 3 motorcycles, 2 umbrellas, 6.4ms
Speed: 1.2ms preprocess, 6.4ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 6.8ms
Speed: 1.6ms preprocess, 6.8ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 3 motorcycles, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 11.3ms
Speed: 1.6ms preprocess, 11.3ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 16 persons, 4 motorcycles, 13.9ms
Speed: 1.8ms preprocess, 13.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 7.7ms
Speed: 1.8ms preprocess, 7.7ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 7.2ms
Speed: 1.4ms preprocess, 7.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 1 bicycle, 3 motorcycles, 1 truck, 2 umbrellas, 6.4ms
Speed: 1.3ms preprocess, 6.4ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 6.7ms
Speed: 1.5ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 4 motorcycles, 2 umbrellas, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 9.6ms
Speed: 1.5ms preprocess, 9.6ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 2 motorcycles, 1 truck, 1 umbrella, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.6ms
Speed: 1.3ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 bicycle, 2 motorcycles, 1 umbrella, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 6.9ms
Speed: 1.7ms preprocess, 6.9ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 bicycle, 2 motorcycles, 1 umbrella, 8.9ms
Speed: 1.2ms preprocess, 8.9ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
a. 201v610 2 motorcyclos 1 thuck 7 2ms
```

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U. 304x040 ∠ IIIOLUI CYCLES, I CIUCK, /.3IIIS
Speed: 1.6ms preprocess, 7.3ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 7.4ms
Speed: 1.4ms preprocess, 7.4ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 bicycle, 2 motorcycles, 1 truck, 1 umbrella, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 7.0ms
Speed: 1.3ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 1 bicycle, 2 motorcycles, 1 truck, 2 umbrellas, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 6.6ms
Speed: 1.5ms preprocess, 6.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 6.3ms
Speed: 1.2ms preprocess, 6.3ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 1 bicycle, 3 motorcycles, 1 truck, 1 umbrella, 7.1ms
Speed: 1.2ms preprocess, 7.1ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 6.7ms
Speed: 1.7ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 7.7ms
Speed: 1.6ms preprocess, 7.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 2 bicycles, 2 motorcycles, 1 truck, 6.3ms
Speed: 1.2ms preprocess, 6.3ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 7.3ms
Speed: 1.2ms preprocess, 7.3ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 bicycle, 2 motorcycles, 1 truck, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 8.5ms
Speed: 2.0ms preprocess, 8.5ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 bicycle, 2 motorcycles, 2 trucks, 1 umbrella, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 6.4ms
Speed: 1.4ms preprocess, 6.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 bicycle, 1 motorcycle, 2 trucks, 1 umbrella, 11.4ms
Speed: 1.4ms preprocess, 11.4ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 10.1ms
Speed: 1.7ms preprocess, 10.1ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 7.3ms
Speed: 1.3ms preprocess, 7.3ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 2 motorcycles, 2 trucks, 1 umbrella, 7.5ms
Speed: 1.3ms preprocess, 7.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 7.0ms
Speed: 1.3ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 2 motorcycles, 1 truck, 2 umbrellas, 6.9ms
Speed: 1.1ms preprocess, 6.9ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 7.2ms
Speed: 1.7ms preprocess, 7.2ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 8.8ms
```

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Speed: 1.2ms preprocess, 8.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 2 motorcycles, 2 trucks, 2 umbrellas, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 174.5ms
Speed: 1.8ms preprocess, 174.5ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 7.0ms
Speed: 1.3ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 2 motorcycles, 1 truck, 2 umbrellas, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 2 trucks, 7.1ms
Speed: 1.6ms preprocess, 7.1ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.9ms
Speed: 1.3ms preprocess, 6.9ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 3 motorcycles, 2 trucks, 1 umbrella, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 6.9ms
Speed: 1.6ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 motorcycle, 2 trucks, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
Processed 250 frames out of 572 (43.7%)
0: 384x640 2 trucks, 6.6ms
Speed: 1.7ms preprocess, 6.6ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 2 trucks, 6.6ms
Speed: 1.1ms preprocess, 6.6ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 trucks, 7.8ms
Speed: 1.6ms preprocess, 7.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.8ms
Speed: 1.1ms preprocess, 6.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 2 trucks, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 6.6ms
Speed: 1.5ms preprocess, 6.6ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 motorcycle, 2 trucks, 1 umbrella, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 1 truck, 7.3ms
Speed: 1.2ms preprocess, 7.3ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 11.0ms
Speed: 1.4ms preprocess, 11.0ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 motorcycle, 1 truck, 1 umbrella, 6.6ms
Speed: 1.1ms preprocess, 6.6ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 6.8ms
Speed: 1.6ms preprocess, 6.8ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.6ms
Speed: 1.1ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 motorcycle, 2 trucks, 2 umbrellas, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 8.6ms
Speed: 1.3ms preprocess, 8.6ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 12.8ms
Speed: 1.8ms preprocess, 12.8ms inference, 3.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 motorcycle, 2 trucks, 1 umbrella, 10.5ms
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Speed: 1.8ms preprocess, 10.5ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 3 trucks, 7.0ms
Speed: 1.5ms preprocess, 7.0ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 7.2ms
Speed: 1.2ms preprocess, 7.2ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 motorcycle, 3 trucks, 2 umbrellas, 7.2ms
Speed: 1.3ms preprocess, 7.2ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 1 truck, 7.4ms
Speed: 1.5ms preprocess, 7.4ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 7.1ms
Speed: 2.3ms preprocess, 7.1ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 motorcycle, 1 truck, 2 umbrellas, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 6.9ms
Speed: 2.2ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 motorcycle, 2 trucks, 2 umbrellas, 6.8ms
Speed: 1.4ms preprocess, 6.8ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 1 truck, 8.4ms
Speed: 1.4ms preprocess, 8.4ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 9.0ms
Speed: 1.4ms preprocess, 9.0ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 car, 2 motorcycles, 1 truck, 2 umbrellas, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 1 truck, 7.2ms
Speed: 1.4ms preprocess, 7.2ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 car, 2 motorcycles, 1 truck, 2 umbrellas, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 1 truck, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 motorcycle, 1 truck, 2 umbrellas, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 6.8ms
Speed: 1.7ms preprocess, 6.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.4ms
Speed: 1.2ms preprocess, 6.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 2 motorcycles, 1 truck, 2 umbrellas, 7.5ms
Speed: 1.5ms preprocess, 7.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 1 truck, 7.0ms
Speed: 1.4ms preprocess, 7.0ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 1 motorcycle, 1 truck, 2 umbrellas, 6.6ms
Speed: 1.1ms preprocess, 6.6ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 6.7ms
Speed: 1.3ms preprocess, 6.7ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 2 motorcycles, 1 truck, 2 umbrellas, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 6.4ms
Sneed: 1.2ms preprocess, 6.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
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0: 384x640 7 persons, 8.6ms
Speed: 1.1ms preprocess, 8.6ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 2 motorcycles, 1 truck, 2 umbrellas, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 6.9ms
Speed: 1.7ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384 \times 640 9 persons, 2 motorcycles, 1 truck, 2 umbrellas, 8.6ms
Speed: 1.1ms preprocess, 8.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 7.4ms
Speed: 1.5ms preprocess, 7.4ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 2 motorcycles, 1 truck, 1 umbrella, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 1 truck, 6.8ms
Speed: 1.4ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 7.5ms
Speed: 1.2ms preprocess, 7.5ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 motorcycle, 1 truck, 1 umbrella, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 1 truck, 6.4ms
Speed: 1.2ms preprocess, 6.4ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 motorcycle, 1 truck, 1 umbrella, 6.3ms
Speed: 1.2ms preprocess, 6.3ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 7.2ms
Speed: 1.8ms preprocess, 7.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.4ms
Speed: 1.2ms preprocess, 6.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 motorcycle, 2 trucks, 1 umbrella, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 1 truck, 7.2ms
Speed: 1.4ms preprocess, 7.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 motorcycle, 1 truck, 1 umbrella, 7.0ms
Speed: 1.3ms preprocess, 7.0ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 6.9ms
Speed: 1.4ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 1 motorcycle, 2 trucks, 1 umbrella, 9.9ms
Speed: 1.4ms preprocess, 9.9ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 2 trucks, 7.7ms
Speed: 1.2ms preprocess, 7.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 motorcycle, 2 trucks, 1 umbrella, 8.8ms
Speed: 1.2ms preprocess, 8.8ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 2 trucks, 7.7ms
Speed: 1.6ms preprocess, 7.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
```

```
0: 384x640 7 persons, 3 motorcycles, 2 trucks, 1 umbrella, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 2 trucks, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 3 motorcycles, 2 trucks, 1 umbrella, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 7.0ms
Speed: 1.4ms preprocess, 7.0ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 7.2ms
Speed: 1.2ms preprocess, 7.2ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 bicycle, 3 motorcycles, 1 truck, 1 umbrella, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 11.1ms
Speed: 1.8ms preprocess, 11.1ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 11.0ms
Speed: 1.2ms preprocess, 11.0ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 2 motorcycles, 1 truck, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 640x448 (no detections), 42.0ms
Speed: 2.0ms preprocess, 42.0ms inference, 0.4ms postprocess per image at shape (1, 3, 640, 448)
0: 384x640 3 motorcycles, 1 truck, 7.0ms
Speed: 1.9ms preprocess, 7.0ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 3 motorcycles, 1 truck, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 640x416 (no detections), 9.4ms
Speed: 1.6ms preprocess, 9.4ms inference, 0.3ms postprocess per image at shape (1, 3, 640, 416)
0: 384x640 3 motorcycles, 2 trucks, 7.4ms
Speed: 1.6ms preprocess, 7.4ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 7.4ms
Speed: 1.3ms preprocess, 7.4ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 3 motorcycles, 2 trucks, 6.8ms
Speed: 1.3ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 640x448 (no detections), 9.6ms
Speed: 1.7ms preprocess, 9.6ms inference, 0.3ms postprocess per image at shape (1, 3, 640, 448)
0: 384x640 3 motorcycles, 2 trucks, 7.3ms
Speed: 1.7ms preprocess, 7.3ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 3 motorcycles, 2 trucks, 7.2ms
Speed: 1.2ms preprocess, 7.2ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 640x416 (no detections), 9.4ms
Speed: 1.7ms preprocess, 9.4ms inference, 0.4ms postprocess per image at shape (1, 3, 640, 416)
0: 384x640 3 motorcycles, 2 trucks, 7.0ms
Speed: 1.7ms preprocess, 7.0ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 3 motorcycles, 2 trucks, 7.8ms
Speed: 1.2ms preprocess, 7.8ms inference, 3.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 6.9ms
Speed: 1.7ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 7.1ms
Speed: 1.1ms preprocess, 7.1ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
```

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0: 384x640 10 persons, 2 motorcycles, 1 truck, 7.1ms
Speed: 1.1ms preprocess, 7.1ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 6.8ms
Speed: 1.4ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 2 motorcycles, 2 trucks, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 6.8ms
Speed: 1.4ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 2 motorcycles, 2 trucks, 1 umbrella, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 6.8ms
Speed: 1.3ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 8.3ms
Speed: 1.2ms preprocess, 8.3ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 2 motorcycles, 1 truck, 1 umbrella, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 8.2ms
Speed: 1.6ms preprocess, 8.2ms inference, 3.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 8.2ms
Speed: 1.2ms preprocess, 8.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 1 bicycle, 2 motorcycles, 2 trucks, 1 umbrella, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 7.0ms
Speed: 1.5ms preprocess, 7.0ms inference, 4.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 2 motorcycles, 1 truck, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 9.0ms
Speed: 1.5ms preprocess, 9.0ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 8.3ms
Speed: 1.1ms preprocess, 8.3ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 3 motorcycles, 1 truck, 12.7ms
Speed: 1.7ms preprocess, 12.7ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 2 trucks, 6.9ms
Speed: 1.3ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 4 motorcycles, 2 trucks, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 2 trucks, 7.3ms
Speed: 1.9ms preprocess, 7.3ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 7.3ms
Speed: 1.2ms preprocess, 7.3ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 2 bicycles, 4 motorcycles, 2 trucks, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 1 truck, 7.4ms
Speed: 1.4ms preprocess, 7.4ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 bicycle, 4 motorcycles, 1 truck, 7.3ms
Speed: 1.3ms preprocess, 7.3ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
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0: 384x640 4 motorcycles, 1 truck, 7.2ms

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Speed: 1.6ms preprocess, 7.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 bicycle, 4 motorcycles, 1 truck, 7.3ms
Speed: 1.3ms preprocess, 7.3ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 motorcycles, 2 trucks, 7.2ms
Speed: 1.4ms preprocess, 7.2ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 7.5ms
Speed: 1.3ms preprocess, 7.5ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 1 bicycle, 4 motorcycles, 2 trucks, 6.8ms
Speed: 1.3ms preprocess, 6.8ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 2 trucks, 7.1ms
Speed: 1.8ms preprocess, 7.1ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 7.3ms
Speed: 1.2ms preprocess, 7.3ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 bicycle, 3 motorcycles, 2 trucks, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 2 trucks, 8.4ms
Speed: 1.8ms preprocess, 8.4ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 8.0ms
Speed: 1.2ms preprocess, 8.0ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 bicycle, 3 motorcycles, 2 trucks, 7.1ms
Speed: 1.2ms preprocess, 7.1ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 2 trucks, 7.1ms
Speed: 1.4ms preprocess, 7.1ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 2 bicycles, 3 motorcycles, 2 trucks, 9.7ms
Speed: 1.4ms preprocess, 9.7ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 9.3ms
Speed: 1.5ms preprocess, 9.3ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 12.5ms
Speed: 2.6ms preprocess, 12.5ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 1 bicycle, 2 motorcycles, 2 trucks, 1 suitcase, 11.9ms
Speed: 1.8ms preprocess, 11.9ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 11.8ms
Speed: 1.8ms preprocess, 11.8ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 10.7ms
Speed: 1.8ms preprocess, 10.7ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 bicycle, 2 motorcycles, 1 truck, 12.7ms
Speed: 1.8ms preprocess, 12.7ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 13.0ms
Speed: 1.8ms preprocess, 13.0ms inference, 2.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 14.1ms
Speed: 1.8ms preprocess, 14.1ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 2 bicycles, 2 motorcycles, 2 trucks, 14.0ms
Speed: 1.9ms preprocess, 14.0ms inference, 4.2ms postprocess per image at shape (1, 3, 384, 640)
Processed 400 frames out of 572 (69.9%)
0: 384x640 2 motorcycles, 2 trucks, 9.3ms
Speed: 1.8ms preprocess, 9.3ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 9.4ms
Speed: 1.7ms preprocess, 9.4ms inference, 5.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 1 bicycle, 2 motorcycles, 2 trucks, 9.4ms
Speed: 1.7ms preprocess, 9.4ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 9.2ms
Speed: 1.7ms preprocess, 9.2ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
```

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Speed: 1.8ms preprocess, 11.8ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 2 bicycles, 2 motorcycles, 2 trucks, 14.6ms
Speed: 1.7ms preprocess, 14.6ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 12.3ms
Speed: 1.7ms preprocess, 12.3ms inference, 3.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 10.0ms
Speed: 2.3ms preprocess, 10.0ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 1 bicycle, 2 motorcycles, 2 trucks, 11.3ms
Speed: 1.7ms preprocess, 11.3ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 8.8ms
Speed: 1.7ms preprocess, 8.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 9.0ms
Speed: 1.6ms preprocess, 9.0ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 bicycle, 2 motorcycles, 2 trucks, 8.9ms
Speed: 1.7ms preprocess, 8.9ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 11.0ms
Speed: 1.7ms preprocess, 11.0ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 9.8ms
Speed: 2.4ms preprocess, 9.8ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 bicycle, 2 motorcycles, 2 trucks, 8.5ms
Speed: 1.6ms preprocess, 8.5ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 8.7ms
Speed: 1.9ms preprocess, 8.7ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 11.4ms
Speed: 1.6ms preprocess, 11.4ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 2 motorcycles, 2 trucks, 8.7ms
Speed: 1.6ms preprocess, 8.7ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 2 trucks, 8.6ms
Speed: 1.6ms preprocess, 8.6ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 9.5ms
Speed: 1.7ms preprocess, 9.5ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 car, 3 motorcycles, 2 trucks, 9.2ms
Speed: 1.7ms preprocess, 9.2ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 2 trucks, 11.7ms
Speed: 1.9ms preprocess, 11.7ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 12.9ms
Speed: 1.7ms preprocess, 12.9ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 3 motorcycles, 2 trucks, 10.4ms
Speed: 1.7ms preprocess, 10.4ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 2 trucks, 12.5ms
Speed: 1.7ms preprocess, 12.5ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 8.7ms
Speed: 1.6ms preprocess, 8.7ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 1 car, 2 motorcycles, 2 trucks, 8.9ms
Speed: 1.8ms preprocess, 8.9ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 2 trucks, 9.1ms
Speed: 4.7ms preprocess, 9.1ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 persons, 13.5ms
Speed: 1.7ms preprocess, 13.5ms inference, 2.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 persons, 1 car, 2 motorcycles, 2 trucks, 9.7ms
Speed: 1.7ms preprocess, 9.7ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 9.2ms
Speed: 1.8ms preprocess, 9.2ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 8.4ms
Speed: 1.8ms preprocess, 8.4ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 bicycle, 2 motorcycles, 2 trucks, 8.6ms
```

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Speed: 1.oms preprocess, 8.oms interence, 1./ms postprocess per image at snape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 14.2ms
Speed: 1.6ms preprocess, 14.2ms inference, 3.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 10.0ms
Speed: 2.2ms preprocess, 10.0ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 2 bicycles, 2 motorcycles, 2 trucks, 8.7ms
Speed: 1.7ms preprocess, 8.7ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 9.0ms
Speed: 1.9ms preprocess, 9.0ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 8.7ms
Speed: 1.6ms preprocess, 8.7ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 bicycle, 2 motorcycles, 1 truck, 8.5ms
Speed: 1.8ms preprocess, 8.5ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 2 trucks, 9.3ms
Speed: 1.7ms preprocess, 9.3ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 8.8ms
Speed: 1.6ms preprocess, 8.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 bicycle, 2 motorcycles, 2 trucks, 8.9ms
Speed: 1.6ms preprocess, 8.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 8.6ms
Speed: 1.6ms preprocess, 8.6ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 persons, 8.9ms
Speed: 1.6ms preprocess, 8.9ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 persons, 1 bicycle, 3 motorcycles, 1 truck, 8.8ms
Speed: 1.6ms preprocess, 8.8ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 1 truck, 8.9ms
Speed: 1.7ms preprocess, 8.9ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 persons, 9.0ms
Speed: 1.7ms preprocess, 9.0ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 persons, 3 motorcycles, 1 truck, 8.7ms
Speed: 1.6ms preprocess, 8.7ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 8.8ms
Speed: 1.7ms preprocess, 8.8ms inference, 2.2ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 persons, 8.7ms
Speed: 1.7ms preprocess, 8.7ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 5 persons, 1 bicycle, 2 motorcycles, 1 truck, 8.8ms
Speed: 1.6ms preprocess, 8.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 11.7ms
Speed: 1.9ms preprocess, 11.7ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 12.7ms
Speed: 1.8ms preprocess, 12.7ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 2 motorcycles, 1 truck, 1 boat, 13.9ms
Speed: 1.8ms preprocess, 13.9ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 20.3ms
Speed: 1.9ms preprocess, 20.3ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 12.9ms
Speed: 4.6ms preprocess, 12.9ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 2 motorcycles, 1 truck, 1 boat, 13.7ms
Speed: 1.5ms preprocess, 13.7ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 motorcycles, 13.8ms
Speed: 1.7ms preprocess, 13.8ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 10.5ms
Speed: 1.6ms preprocess, 10.5ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 3 motorcycles, 1 chair, 16.4ms
Speed: 5.6ms preprocess, 16.4ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 8.4ms
Speed: 1.6ms preprocess, 8.4ms inference, 2.8ms postprocess per image at shape (1, 3, 384, 640)
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0: 384x640 7 persons, 12.4ms
Speed: 1.5ms preprocess, 12.4ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 2 motorcycles, 11.0ms
Speed: 1.6ms preprocess, 11.0ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 11.9ms
Speed: 1.7ms preprocess, 11.9ms inference, 2.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 11.7ms
Speed: 1.6ms preprocess, 11.7ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 2 motorcycles, 11.3ms
Speed: 1.6ms preprocess, 11.3ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 11.9ms
Speed: 1.7ms preprocess, 11.9ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 11.5ms
Speed: 1.7ms preprocess, 11.5ms inference, 2.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 1 bicycle, 2 motorcycles, 1 truck, 1 backpack, 11.4ms
Speed: 1.6ms preprocess, 11.4ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 1 truck, 12.3ms
Speed: 1.5ms preprocess, 12.3ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 11.7ms
Speed: 1.6ms preprocess, 11.7ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 1 bicycle, 2 motorcycles, 1 truck, 11.5ms
Speed: 2.6ms preprocess, 11.5ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 12.7ms
Speed: 1.5ms preprocess, 12.7ms inference, 2.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 12.2ms
Speed: 1.6ms preprocess, 12.2ms inference, 3.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 car, 2 motorcycles, 14.0ms
Speed: 1.7ms preprocess, 14.0ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 10.3ms
Speed: 1.6ms preprocess, 10.3ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 car, 2 motorcycles, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 7.0ms
Speed: 1.6ms preprocess, 7.0ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 bicycle, 2 motorcycles, 6.6ms
Speed: 1.1ms preprocess, 6.6ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 17.4ms
Speed: 2.0ms preprocess, 17.4ms inference, 2.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 7.4ms
Speed: 2.1ms preprocess, 7.4ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 6 persons, 1 car, 2 motorcycles, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 7.1ms
Speed: 1.6ms preprocess, 7.1ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 8.1ms
Speed: 1.2ms preprocess, 8.1ms inference, 2.1ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 car, 2 motorcycles, 1 umbrella, 8.8 ms
Speed: 1.3ms preprocess, 8.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 2 motorcycles, 1 bus, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.8ms
Speed: 1.1ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
```

```
0: 384x640 10 persons, 2 cars, 2 motorcycles, 1 bus, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 1 motorcycle, 1 bus, 7.8ms
Speed: 1.7ms preprocess, 7.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.9ms
Speed: 1.1ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 2 cars, 1 motorcycle, 1 bus, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 1 motorcycle, 1 truck, 6.7ms
Speed: 1.5ms preprocess, 6.7ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 9 persons, 2 cars, 1 motorcycle, 1 truck, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 6.3ms
Speed: 1.2ms preprocess, 6.3ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 6.0ms
Speed: 1.1ms preprocess, 6.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 7 persons, 1 car, 3 motorcycles, 7.1ms
Speed: 1.1ms preprocess, 7.1ms inference, 2.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 3 motorcycles, 6.9ms
Speed: 1.5ms preprocess, 6.9ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.6ms
Speed: 1.1ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 car, 3 motorcycles, 7.0ms
Speed: 1.1ms preprocess, 7.0ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 4 cars, 3 motorcycles, 6.9ms
Speed: 1.5ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 6.4ms
Speed: 1.2ms preprocess, 6.4ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 4 cars, 3 motorcycles, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 6.2ms
Speed: 1.2ms preprocess, 6.2ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 1 bicycle, 1 car, 2 motorcycles, 8.2ms
Speed: 1.2ms preprocess, 8.2ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 cars, 2 motorcycles, 7.5ms
Speed: 2.1ms preprocess, 7.5ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 6.4ms
Speed: 1.1ms preprocess, 6.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 15 persons, 1 bicycle, 3 cars, 2 motorcycles, 6.2ms
Speed: 1.1ms preprocess, 6.2ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 cars, 1 motorcycle, 10.7ms
Speed: 1.5ms preprocess, 10.7ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 2 bicycles, 3 cars, 1 motorcycle, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 7.2ms
Speed: 1.3ms preprocess, 7.2ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 2 bicycles, 1 car, 2 motorcycles, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
```

0. 384x640 1 car 1 motorcycle 6 4ms

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Speed: 1.2ms preprocess, 6.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 6.4ms
Speed: 1.1ms preprocess, 6.4ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 14 persons, 2 bicycles, 1 car, 1 motorcycle, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 1 motorcycle, 7.0ms
Speed: 1.7ms preprocess, 7.0ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.5ms
Speed: 1.1ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 2 bicycles, 1 car, 1 motorcycle, 1 umbrella, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 1 motorcycle, 7.4ms
Speed: 1.5ms preprocess, 7.4ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.4ms
Speed: 1.2ms preprocess, 6.4ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 2 bicycles, 2 cars, 1 motorcycle, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 1 motorcycle, 6.7ms
Speed: 1.4ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 1 bicycle, 1 car, 1 motorcycle, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 1 motorcycle, 8.8ms
Speed: 1.5ms preprocess, 8.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 bicycle, 1 car, 1 motorcycle, 1 airplane, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 3 cars, 2 motorcycles, 6.8ms
Speed: 1.5ms preprocess, 6.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 10.2ms
Speed: 1.6ms preprocess, 10.2ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 13 persons, 3 bicycles, 3 cars, 2 motorcycles, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 1 motorcycle, 7.9ms
Speed: 1.2ms preprocess, 7.9ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 2 bicycles, 2 cars, 1 motorcycle, 1 umbrella, 6.5ms
Speed: 1.2ms preprocess, 6.5ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 cars, 2 motorcycles, 6.6ms
Speed: 1.7ms preprocess, 6.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 bicycle, 2 cars, 2 motorcycles, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.3ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 7.0ms
Speed: 1.6ms preprocess, 7.0ms inference, 1.9ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 bicycle, 1 car, 2 motorcycles, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 2 motorcycles, 7.3ms
Speed: 1.5ms preprocess, 7.3ms inference, 2.0ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 12 persons, 7.1ms
```

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Speed: 1.2ms preprocess, /.1ms interence, 1.6ms postprocess per image at snape (1, 3, 384, 640)
0: 384x640 12 persons, 1 car, 2 motorcycles, 9.0ms
Speed: 1.2ms preprocess, 9.0ms inference, 2.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 1 motorcycle, 7.1ms
Speed: 1.3ms preprocess, 7.1ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 7.1ms
Speed: 1.2ms preprocess, 7.1ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 car, 1 motorcycle, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
Processed 550 frames out of 572 (96.2%)
0: 384x640 1 car, 3 motorcycles, 7.1ms
Speed: 1.8ms preprocess, 7.1ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 7.0ms
Speed: 1.2ms preprocess, 7.0ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 car, 3 motorcycles, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 7.0ms
Speed: 1.4ms preprocess, 7.0ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 2 motorcycles, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 car, 1 motorcycle, 7.5ms
Speed: 1.4ms preprocess, 7.5ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 6.7ms
Speed: 1.1ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 8 persons, 1 car, 1 motorcycle, 8.5ms
Speed: 1.2ms preprocess, 8.5ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 6.6ms
Speed: 1.3ms preprocess, 6.6ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.9ms
Speed: 1.5ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 2 motorcycles, 7.1ms
Speed: 1.3ms preprocess, 7.1ms inference, 1.5ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 6.7ms
Speed: 1.8ms preprocess, 6.7ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 6.9ms
Speed: 1.2ms preprocess, 6.9ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 motorcycle, 1 umbrella, 6.6ms
Speed: 1.2ms preprocess, 6.6ms inference, 1.4ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 1 motorcycle, 6.8ms
Speed: 1.7ms preprocess, 6.8ms inference, 1.8ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 7.6ms
Speed: 1.2ms preprocess, 7.6ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 10 persons, 1 bicycle, 1 motorcycle, 2 umbrellas, 7.8ms
Speed: 1.3ms preprocess, 7.8ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 2 motorcycles, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.6ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 6.8ms
Speed: 1.2ms preprocess, 6.8ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
0: 384x640 11 persons, 1 bicycle, 2 motorcycles, 2 umbrellas, 6.7ms
Speed: 1.2ms preprocess, 6.7ms inference, 1.7ms postprocess per image at shape (1, 3, 384, 640)
Processing complete! Output video saved to /content/drive/MyDrive/DL Project/traffic_compliance_system/processed_video.mp4
Detected 11 violations
Creating violations dashboard...
FutureWarning: The default of observed=False is deprecated and will be changed to True in a future version of pandas. Pass
<IPython.core.display.Image object>
Violation dashboard saved to /content/drive/MyDrive/DL Project/traffic_compliance_system/violations_dashboard.png
Detailed report saved to /content/drive/MyDrive/DL Project/traffic_compliance_system/violations_report.html
```

Project Results Summary:

- Processed video saved to: /content/drive/MyDrive/DL Project/traffic_compliance_system/processed_video.mp4
- Detected 11 violations
- Violation records saved to: /content/drive/MyDrive/DL Project/traffic_compliance_system/violations_report.csv
- Violation snapshots saved to: /content/drive/MyDrive/DL Project/traffic_compliance_system/detected_violations/

detect: weights=['/content/drive/MyDrive/DL Project/model/best_3rider.pt'], source=/content/drive/MyDrive/DL Project/traffi YOLOV5 V7.0-416-gfe1d4d99 Python-3.11.12 torch-2.6.0+cu124 CUDA:0 (Tesla T4, 15095MiB)

```
Model summary: 157 layers, 7023610 parameters, 0 gradients, 15.8 GFLOPs
video 1/1 (1/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (2/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (3/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (4/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (5/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (6/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (7/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (8/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (9/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_sy
video 1/1 (10/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (11/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (12/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (13/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (14/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (15/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (16/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (17/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (18/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (19/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (20/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (21/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (22/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (23/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk aIVAfzYR24zyB5/DL Project/traffic compliance s
video 1/1 (24/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (25/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (26/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (27/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (28/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (29/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (30/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (31/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (32/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (33/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (34/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (35/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_starts.
video 1/1 (36/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk aIVAfzYR24zyB5/DL Project/traffic compliance s
video 1/1 (37/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (38/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (39/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk aIVAfzYR24zyB5/DL Project/traffic compliance
video 1/1 (40/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (41/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_starts.
video 1/1 (42/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
video 1/1 (43/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk aIVAfzYR24zyB5/DL Project/traffic compliance s
video 1/1 (44/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_s
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video\ 1/1\ (185/191)\ / content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk\_aIVAfzYR24zyB5/DL\ Project/traffic\_compliance\_targets-by-id/1v9skCOTcYVv8fE9sk\_aIVAfzYR24zyB5/DL\ Project/traffic\_compliance\_targets-by-id/1v9skCOTcYVv8fE9skAyAfzYR24zyB5/DL\ Project/traffic\_compliance\_targets-by-id/1v9skCOTcYVv8fE9skAyAfzYR24zyB5/DL\ Project/traffic\_compliance\_targets-by-id/1v9skCOTcY
video 1/1 (186/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_
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video 1/1 (188/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_
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video 1/1 (190/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_
video 1/1 (191/191) /content/drive/.shortcut-targets-by-id/1v9skCOTcYVv8fE9sk_aIVAfzYR24zyB5/DL Project/traffic_compliance_
Speed: 0.4ms pre-process, 6.8ms inference, 1.2ms NMS per image at shape (1, 3, 640, 640)
Results saved to /content/traffic_compliance_outputs/filtered_output
65 labels saved to /content/traffic_compliance_outputs/filtered_output/labels
Traceback (most recent call last):
   File "/content/drive/MyDrive/DL Project/Scripts/emergency.py", line 37, in <module>
     detect_emergency(video_path, output_path, model_path)
  File "/content/drive/MyDrive/DL Project/Scripts/emergency.py", line 11, in detect_emergency
     yolo_model = YOLO(model_path)
                          ^^^^^
  File "/usr/local/lib/python3.11/dist-packages/ultralytics/models/yolo/model.py", line 53, in __init__
      super().__init__(model=model, task=task, verbose=verbose)
   File "/usr/local/lib/python3.11/dist-packages/ultralytics/engine/model.py", line 147, in __init__
     self. load(model, task=task)
  File "/usr/local/lib/python3.11/dist-packages/ultralytics/engine/model.py", line 289, in _load
      self.model, self.ckpt = attempt_load_one_weight(weights)
                                          ^^^^^
  File "/usr/local/lib/python3.11/dist-packages/ultralytics/nn/tasks.py", line 1306, in attempt_load_one_weight
      ckpt, weight = torch_safe_load(weight) # load ckpt
                             ^^^^^
  File "/usr/local/lib/python3.11/dist-packages/ultralytics/nn/tasks.py", line 1211, in torch_safe_load
      ckpt = torch.load(file, map_location="cpu")
                 ^^^^^
   File ~"/usr/local/lib/python 3.11/dist-packages/ultralytics/utils/patches.py", line ~115, in torch\_load ~11/dist-packages/ultralytics/utils/patches.py", line ~115, in torch\_load ~11/dist-packages/ultralytics/utils/patches/ultralytics/utils/patches/ultralytics/utils/patches/ultralytics/utils/patches/ultralytics/utils/patches/ultralytics/utils/patches/ultralytics/utils/patches/ultralytics/utils/patches/ultralytics/utils/patches/ultralytics/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/utils/patches/util
     return _torch_load(*args, **kwargs)
   File "/usr/local/lib/python3.11/dist-packages/torch/serialization.py", line 1432, in load
      with _open_zipfile_reader(opened_file) as opened_zipfile:
               ^^^^^^
   File "/usr/local/lib/python3.11/dist-packages/torch/serialization.py", line 763, in __init__
     KeyboardInterrupt
Traceback (most recent call last):
  File "/content/drive/MyDrive/DL Project/Scripts/seatbelt.py", line 4, in <module>
     from ultralytics import YOLO
   File "/usr/local/lib/python3.11/dist-packages/ultralytics/__init__.py", line 11, in <module>
      from ultralytics.models import NAS, RTDETR, SAM, YOLO, YOLOE, FastSAM, YOLOWorld
   File "/usr/local/lib/python3.11/dist-packages/ultralytics/models/__init__.py", line 3, in <module>
     from .fastsam import FastSAM
   File "/usr/local/lib/python3.11/dist-packages/ultralytics/models/fastsam/__init__.py", line 3, in <module>
      \quad \hbox{from .model import FastSAM} \quad
   File "/usr/local/lib/python3.11/dist-packages/ultralytics/models/fastsam/model.py", line 5, in <module>
      from ultralytics.engine.model import Model
   File "/usr/local/lib/python3.11/dist-packages/ultralytics/engine/model.py", line 11, in <module>
     from ultralytics.cfg import TASK2DATA, get_cfg, get_save_dir
   File "/usr/local/lib/python3.11/dist-packages/ultralytics/cfg/__init__.py", line 13, in <module>
      from ultralytics.utils import (
   File "/usr/local/lib/python3.11/dist-packages/ultralytics/utils/__init__.py", line 24, in <module>
     import matplotlib.pyplot as plt
   File "/usr/local/lib/python3.11/dist-packages/matplotlib/__init__.py", line 1573, in <module>
   from matplotlib.cm import _colormaps as colormaps # noqa: E402
```

```
import os
import cv2
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
from datetime import datetime
from google.colab import files, drive
import torch
from IPython.display import display, HTML, Image
import pytesseract
from PIL import Image as PILImage
from ultralytics import YOLO
import supervision as sv
from IPython.display import Video
# Mount Google Drive for saving results (optional but recommended)
drive.mount('/content/drive')
# Create project directory
PROJECT_DIR = '/content/drive/MyDrive/DL Project/traffic_compliance_system'
os.makedirs(PROJECT_DIR, exist_ok=True)
os.makedirs(f"{PROJECT_DIR}/detected_violations", exist_ok=True)
os.makedirs(f"{PROJECT_DIR}/processed_frames", exist_ok=True)
→ Creating new Ultralytics Settings v0.0.6 file <
     View Ultralytics Settings with 'yolo settings' or at '/root/.config/Ultralytics/settings.json'
     Update Settings with 'yolo settings key=value', i.e. 'yolo settings runs_dir=path/to/dir'. For help see <a href="https://docs.ultra">https://docs.ultra</a>
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=1
!pip install streamlit
!pip install pyngrok
→ Collecting streamlit
       Downloading streamlit-1.45.0-py3-none-any.whl.metadata (8.9 kB)
     Requirement already satisfied: altair<6,>=4.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (5.5.0)
     Requirement already satisfied: blinker<2,>=1.5.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (1.9.0)
     Requirement already satisfied: cachetools<6,>=4.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (5.5.2)
     Requirement already satisfied: click<9,>=7.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (8.1.8)
     Requirement already satisfied: numpy<3,>=1.23 in /usr/local/lib/python3.11/dist-packages (from streamlit) (2.0.2)
     Requirement already satisfied: packaging<25,>=20 in /usr/local/lib/python3.11/dist-packages (from streamlit) (24.2)
     Requirement already satisfied: pandas<3,>=1.4.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (2.2.2)
     Requirement already satisfied: pillow<12,>=7.1.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (11.2.1)
     Requirement already satisfied: protobuf<7,>=3.20 in /usr/local/lib/python3.11/dist-packages (from streamlit) (5.29.4)
     Requirement already satisfied: pyarrow>=7.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (18.1.0)
     Requirement already satisfied: requests<3,>=2.27 in /usr/local/lib/python3.11/dist-packages (from streamlit) (2.32.3)
     Requirement already satisfied: tenacity<10,>=8.1.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (9.1.2)
     Requirement already satisfied: toml<2,>=0.10.1 in /usr/local/lib/python3.11/dist-packages (from streamlit) (0.10.2)
     Requirement already satisfied: typing-extensions<5,>=4.4.0 in /usr/local/lib/python3.11/dist-packages (from streamlit) (4.1
     Collecting watchdog<7,>=2.1.5 (from streamlit)
       Downloading watchdog-6.0.0-py3-none-manylinux2014_x86_64.whl.metadata (44 kB)
                                                    - 44.3/44.3 kB 2.4 MB/s eta 0:00:00
     Requirement already satisfied: gitpython!=3.1.19,<4,>=3.0.7 in /usr/local/lib/python3.11/dist-packages (from streamlit) (3
     Collecting pydeck<1,>=0.8.0b4 (from streamlit)
       Downloading pydeck-0.9.1-py2.py3-none-any.whl.metadata (4.1 kB)
     Requirement already satisfied: tornado<7,>=6.0.3 in /usr/local/lib/python3.11/dist-packages (from streamlit) (6.4.2)
     Requirement already satisfied: jinja2 in /usr/local/lib/python3.11/dist-packages (from altair<6,>=4.0->streamlit) (3.1.6)
     Requirement already satisfied: jsonschema>=3.0 in /usr/local/lib/python3.11/dist-packages (from altair<6,>=4.0->streamlit)
     Requirement already satisfied: narwhals>=1.14.2 in /usr/local/lib/python3.11/dist-packages (from altair<6,>=4.0->streamlit
     Requirement already satisfied: gitdb<5,>=4.0.1 in /usr/local/lib/python3.11/dist-packages (from gitpython!=3.1.19,<4,>=3.0
     Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.11/dist-packages (from pandas<3,>=1.4.0->s1
     Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-packages (from pandas<3,>=1.4.0->streamlit)
     Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/dist-packages (from pandas<3,>=1.4.0->streamlit)
     Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27
     Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->streamlit)
     Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->stre;
     Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests<3,>=2.27->stre;
     Requirement already satisfied: smmap<6,>=3.0.1 in /usr/local/lib/python3.11/dist-packages (from gitdb<5,>=4.0.1->gitpython
     Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.11/dist-packages (from jinja2->altair<6,>=4.0->str
     Requirement already satisfied: attrs>=22.2.0 in /usr/local/lib/python3.11/dist-packages (from jsonschema>=3.0->altair<6,>=4
     Requirement already satisfied: jsonschema-specifications>=2023.03.6 in /usr/local/lib/python3.11/dist-packages (from jsonsc
     Requirement already satisfied: referencing>=0.28.4 in /usr/local/lib/python3.11/dist-packages (from jsonschema>=3.0->altair
     Requirement already satisfied: rpds-py>=0.7.1 in /usr/local/lib/python3.11/dist-packages (from jsonschema>=3.0->altair<6,>=
     Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.8.2->pandas<3,:
     Downloading streamlit-1.45.0-py3-none-any.whl (9.9 MB)
                                                 - 9.9/9.9 MB 70.8 MB/s eta 0:00:00
     Downloading pydeck-0.9.1-py2.py3-none-any.whl (6.9 MB)
                                                  6.9/6.9 MB 98.8 MB/s eta 0:00:00
     Downloading watchdog-6.0.0-py3-none-manylinux2014 x86 64.whl (79 kB)
```

```
- 79.1/79.1 kB 8.3 MB/s eta 0:00:00
     Installing collected packages: watchdog, pydeck, streamlit
     Successfully installed pydeck-0.9.1 streamlit-1.45.0 watchdog-6.0.0
     Collecting pyngrok
       Downloading pyngrok-7.2.5-py3-none-any.whl.metadata (8.9 kB)
     Requirement already satisfied: PyYAML>=5.1 in /usr/local/lib/python3.11/dist-packages (from pyngrok) (6.0.2)
     Downloading pyngrok-7.2.5-py3-none-any.whl (23 kB)
     Installing collected packages: pyngrok
     Successfully installed pyngrok-7.2.5
!ngrok config add-authtoken "2w89D5g0XVZpohhkerRzIdrvOd7 5BVJUJBSG53pZet6iN5Ni"
Authtoken saved to configuration file: /root/.config/ngrok/ngrok.yml
from getpass import getpass
authtoken = getpass("Paste your ngrok authtoken: ")
!ngrok config add-authtoken {authtoken}
     KeyboardInterrupt
                                               Traceback (most recent call last)
     <ipython-input-8-a1d2fc31284b> in <cell line: 0>()
           1 from getpass import getpass
     ----> 3 authtoken = getpass("Paste your ngrok authtoken: ")
           4 get_ipython().system('ngrok config add-authtoken {authtoken}')
                                        1 frames
     /usr/local/lib/python3.11/dist-packages/ipykernel/kernelbase.py in _input_request(self, prompt, ident, parent, password)
        1217
                         except KeyboardInterrupt:
        1218
                             # re-raise KeyboardInterrupt, to truncate traceback
     -> 1219
                             raise KeyboardInterrupt("Interrupted by user") from None
        1220
                         except Exception:
                             self.log.warning("Invalid Message:", exc_info=True)
        1221
     KeyboardInterrupt: Interrupted by user
%%writefile app.py
import streamlit as st
import os
from IPython.display import display, Video
import base64
import subprocess
import time
# Set page title and layout
st.set_page_config(page_title="Traffic Compliance Detection System", layout="wide")
# Add header with styling
st.title("Traffic Compliance Detection System")
st.markdown("---")
# Create sidebar for control buttons
with st.sidehar:
    st.header("Controls")
    st.markdown("Upload a video and use the detect buttons to process it.")
# Create file uploader
uploaded_file = st.sidebar.file_uploader("Upload Video", type=["mp4", "avi", "mov"])
# Initialize session state variables if they don't exist
if "video_path" not in st.session_state:
    st.session_state.video_path = None
if "output_path" not in st.session_state:
    st.session_state.output_path = None
if "detection_complete" not in st.session_state:
    st.session_state.detection_complete = False
# Process uploaded file
if uploaded file is not None:
    # Create directory if it doesn't exist
```

```
save_dir = "/content/Uploaded videos"
           os.makedirs(save_dir, exist_ok=True)
           # Save uploaded file to the directory
           save_path = os.path.join(save_dir, uploaded_file.name)
           with open(save_path, "wb") as f:
                      f.write(uploaded_file.getbuffer())
           # Update session state with video path
           st.session_state.video_path = save_path
           st.sidebar.success(f"File uploaded successfully: {uploaded_file.name}")
           # Display original video
           st.subheader("Uploaded Video")
           st.video(uploaded_file)
# Create detect buttons
col1, col2 = st.sidebar.columns(2)
with col1:
           detect_button = st.button("Detect", type="primary")
with col2:
           license_button = st.button("License Detection")
# Function to run detection script
def run_detection():
           video_path = st.session_state.video_path
           if video_path:
                     with st.spinner("Running main script..."):
                                 # Run main.py
                                 subprocess.run(f"python '/content/drive/MyDrive/DL Project/Scripts/main.py' '{video_path}'", shell=True)
                      with st.spinner("Running YOLOv5 detection..."):
                                 # Define class names for detection
                                 class_names = ['helmet', 'mobile_usage', 'no_helmet', 'triple_ride']
                                 # Run YOLOv5 detection
                                 subprocess.run(f"python /content/yolov5/detect.py --weights '/content/drive/MyDrive/DL Project/model/best_3rider.pt
                                                                          f"--source '/content/drive/MyDrive/DL \ Project/traffic\_compliance\_system/processed\_video.mp4' \ "the project of the project
                                                                         f"--conf 0.3 --save-txt --save-conf --project /content/traffic_compliance_outputs '
f"--name filtered_output --exist-ok", shell=True)
                      with st.spinner("Running emergency detection..."):
                                 # Run emergency.py
                                 subprocess.run("python '/content/drive/MyDrive/DL Project/Scripts/emergency.py'", shell=True)
                      with st.spinner("Running seatbelt detection..."):
                                 # Run seatbelt.py
                                 subprocess.run("python '/content/drive/MyDrive/DL Project/Scripts/seatbelt.py'", shell=True)
                      # Update output path
                      st.session\_state.output\_path = "/content/traffic\_compliance\_outputs/filtered\_output/processed\_video(after\_seatbelt).mp2/session\_state.output\_path = "/content/traffic\_compliance\_outputs/filtered\_output/processed\_video(after\_seatbelt).mp2/session\_state.output\_path = "/content/traffic\_compliance\_outputs/filtered\_output/processed\_video(after\_seatbelt).mp2/session\_state.output\_path = "/content/traffic\_compliance\_outputs/filtered\_output/processed\_video(after\_seatbelt).mp2/session\_state.output\_path = "/content/traffic\_compliance\_outputs/filtered\_output/processed\_video(after\_seatbelt).mp2/session\_state.output\_path = "/content/traffic\_compliance\_outputs/filtered\_output/processed\_video(after\_seatbelt).mp2/session\_state.output\_session\_state.output\_session\_state.output\_session\_session\_state.output\_session\_state.output\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_session\_se
                      st.session_state.detection_complete = True
                      return True
           else:
                      st.error("Please upload a video first")
                      return False
# Handle detect button click
if detect_button:
           if st.session_state.video_path:
                     success = run_detection()
                                st.success("Detection completed successfully!")
                      st.error("Please upload a video first")
# Handle license detection button click
if license button:
           st.info("License detection functionality is not implemented yet")
# Display processed video if detection is complete
if st.session state.detection complete and st.session state.output path:
           st.subheader("Processed Video")
```

```
st.video(st.session_state.output_path)
# Add information section
with st.expander("About"):
    st.markdown("""
    ## Traffic Compliance Detection System
    This application detects several traffic violations:
    - Helmet usage violations
    - Mobile phone usage while driving
    - Triple riding on two-wheelers
    - Emergency vehicle detection
    - Seatbelt compliance
    Upload a video and click 'Detect' to process it.
→ Writing app.py
# license and detect both integrated -
%%writefile app.py
import streamlit as st
import os
import subprocess
import time
import json
st.set_page_config(page_title="Traffic Compliance Detection System", layout="wide")
st.title("Traffic Compliance Detection System")
st.markdown("---")
with st.sidebar:
    st.header("Controls")
    st.markdown("Upload a video and use the detect buttons to process it.")
uploaded_file = st.sidebar.file_uploader("Upload Video", type=["mp4", "avi", "mov"])
if "video_path" not in st.session_state:
    st.session_state.video_path = None
if "output_path" not in st.session_state:
    st.session_state.output_path = None
if "detection_complete" not in st.session_state:
    st.session_state.detection_complete = False
if "license_plates" not in st.session_state:
    st.session_state.license_plates = []
if "license_detection_complete" not in st.session_state:
    st.session_state.license_detection_complete = False
if uploaded_file is not None:
    # Create directory if it doesn't exist
    save dir = "/content/drive/MyDrive/Uploaded videos"
    os.makedirs(save_dir, exist_ok=True)
    save_path = os.path.join(save_dir, uploaded_file.name)
    with open(save_path, "wb") as f:
        f.write(uploaded_file.getbuffer())
    st.session_state.video_path = save_path
    st.sidebar.success(f"File uploaded successfully: {uploaded_file.name}")
    st.subheader("Uploaded Video")
    st.video(uploaded_file)
col1, col2 = st.sidebar.columns(2)
with col1:
    detect_button = st.button("Detect", type="primary")
with col2:
```

```
license_button = st.button("License Detection", type="primary")
def run_detection():
    video path = st.session state.video path
    if video path:
        with st.spinner("Running main script..."):
            # Run main.py
            subprocess.run(f"python '/content/drive/MyDrive/DL Project/Scripts/main.py' '{video_path}'", shell=True)
        with st.spinner("Running YOLOv5 detection..."):
            class_names = ['helmet', 'mobile_usage', 'no_helmet', 'triple_ride']
            subprocess.run(f"python $$\underline{/content/yolov5/detect.py}$ --weights '$\underline{/content/drive/MyDrive/DL}$ Project/model/best\_3rider.pt' $$
                            f"--source '/content/drive/MyDrive/DL Project/traffic_compliance_system/processed_video.mp4'
                           f"--conf 0.3 --save-txt --save-conf --project /content/traffic_compliance_outputs
f"--name filtered_output --exist-ok", shell=True)
        with st.spinner("Running emergency detection..."):
            # Runing emergency.py
            subprocess.run("python '/content/drive/MyDrive/DL Project/Scripts/emergency.py'", shell=True)
        with st.spinner("Running seatbelt detection..."):
            # Runing seatbelt.py
            subprocess.run("python '/content/drive/MyDrive/DL Project/Scripts/seatbelt.py'", shell=True)
        st.session_state.output_path = "/content/traffic_compliance_outputs/filtered_output/processed_video(after_seatbelt).mp4"
        st.session_state.detection_complete = True
        return True
    else:
        st.error("Please upload a video first")
        return False
def run_license_detection():
    video_path = st.session_state.video_path
    if video_path:
        with st.spinner("Running license plate detection..."):
            subprocess.run(f"python '/content/drive/MyDrive/License-Plate-Extraction/main.py' '{video_path}'", shell=True)
            json_path = "/content/drive/MyDrive/License-Plate-Extraction/json/LicensePlateData.json"
                with open(json_path, 'r') as f:
                    data = json.load(f)
                unique_license_plates = set()
                 if data:
                     for entry in data:
                        plates = entry.get("License Plate", [])
                         for plate in plates:
                             if len(plate) == 10 :
                                 unique_license_plates.add(plate)
                    st.session_state.license_plates = list(unique_license_plates)
                     st.session_state.license_detection_complete = True
                    return True
                else:
                     st.error("No entries found in the JSON file.")
                    return False
            except Exception as e:
                st.error(f"Error processing license plate data: {str(e)}")
                return False
    else:
        st.error("Please upload a video first")
        return False
if detect button:
    if st.session_state.video_path:
        success = run_detection()
        if success:
```

```
st.success("Detection completed successfully!")
    else:
        st.error("Please upload a video first")
if license_button:
    if st.session_state.video_path:
        success = run_license_detection()
        if success:
            st.success("License plate detection completed successfully!")
    else:
        st.error("Please upload a video first")
if st.session state.detection complete and st.session state.output path:
    st.subheader("Processed Video")
    st.video(st.session_state.output_path)
if st.session_state.license_detection_complete and st.session_state.license_plates:
    st.subheader("Detected License Plates")
    license_container = st.container()
    with license_container:
        st.markdown(" License Plates ")
        for plate in st.session_state.license_plates:
            st.markdown(f"""
            <div style="
               background-color: #ffffff;
               color: #000000;
                padding: 10px;
               border-radius: 5px;
               margin-bottom: 10px;
                font-size: 18px;
                font-family: monospace;
                border-left: 4px solid #4CAF50;
                {plate}
            </div>
            """, unsafe_allow_html=True)
    if st.session_state.license_plates:
       import pandas as pd
       import io
        df = pd.DataFrame(st.session_state.license_plates, columns=["License Plate"])
        csv = df.to_csv(index=False).encode('utf-8')
```