In [2]:
```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

In [3]:
```
pip install telepot
```

```
Collecting telepot
  Downloading telepot-12.7.tar.gz (73 kB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 73.1/73.1 kB 2.8 MB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Requirement already satisfied: urllib3>=1.9.1 in /usr/local/lib/python3.10/dist-p
ackages (from telepot) (2.0.7)
Requirement already satisfied: aiohttp>=3.0.0 in /usr/local/lib/python3.10/dist-p
ackages (from telepot) (3.9.5)
Requirement already satisfied: aiosignal>=1.1.2 in /usr/local/lib/python3.10/dist
-packages (from aiohttp>=3.0.0->telepot) (1.3.1)
Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.10/dist-pa
ckages (from aiohttp>=3.0.0->telepot) (23.2.0)
Requirement already satisfied: frozenlist>=1.1.1 in /usr/local/lib/python3.10/dis
t-packages (from aiohttp>=3.0.0->telepot) (1.4.1)
Requirement already satisfied: multidict<7.0,>=4.5 in /usr/local/lib/python3.10/d
ist-packages (from aiohttp>=3.0.0->telepot) (6.0.5)
Requirement already satisfied: yarl<2.0,>=1.0 in /usr/local/lib/python3.10/dist-p
ackages (from aiohttp>=3.0.0->telepot) (1.9.4)
Requirement already satisfied: async-timeout<5.0,>=4.0 in /usr/local/lib/python3.
10/dist-packages (from aiohttp>=3.0.0->telepot) (4.0.3)
Requirement already satisfied: idna>=2.0 in /usr/local/lib/python3.10/dist-packag
es (from yarl<2.0,>=1.0->aiohttp>=3.0.0->telepot) (3.7)
Building wheels for collected packages: telepot
  Building wheel for telepot (setup.py) ... done
  Created wheel for telepot: filename=telepot-12.7-py3-none-any.whl size=57940 sh
a256=bbbc3f69b5708c2b28ddfbfc40a12115bb6ebecfdc3a1f24e146183251811258
  Stored in directory: /root/.cache/pip/wheels/9f/9a/92/2e34a093e40a09338847e54dc
9fcaab4ce01a59ba17c784c6c
Successfully built telepot
Installing collected packages: telepot
Successfully installed telepot-12.7
```

In [4]:
```
from keras.models import load_model
from collections import deque
import matplotlib.pyplot as plt
import numpy as np
import argparse
import pickle
import cv2
import telepot
from datetime import datetime
import pytz
```

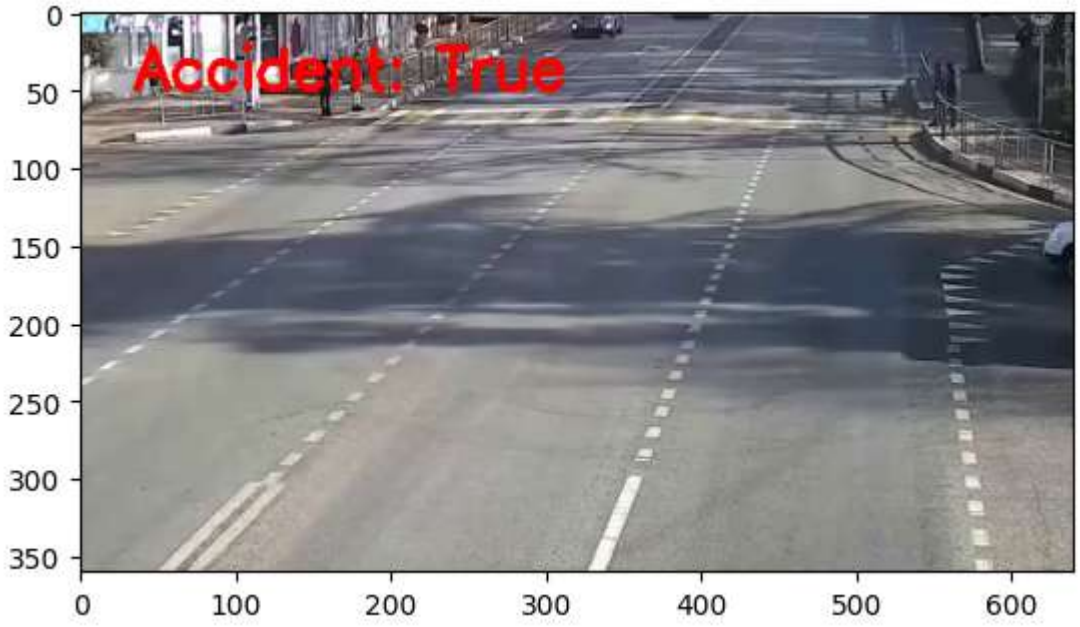
In [5]:
```
def getTime():
  IST = pytz.timezone('Asia/Kolkata')
  timeNow = datetime.now(IST)
  return timeNow
  curr_date = timeNow.strftime("%d-%m-%Y")
  curr_time = timeNow.strftime("%H:%M:%S")
```

In [ ]:

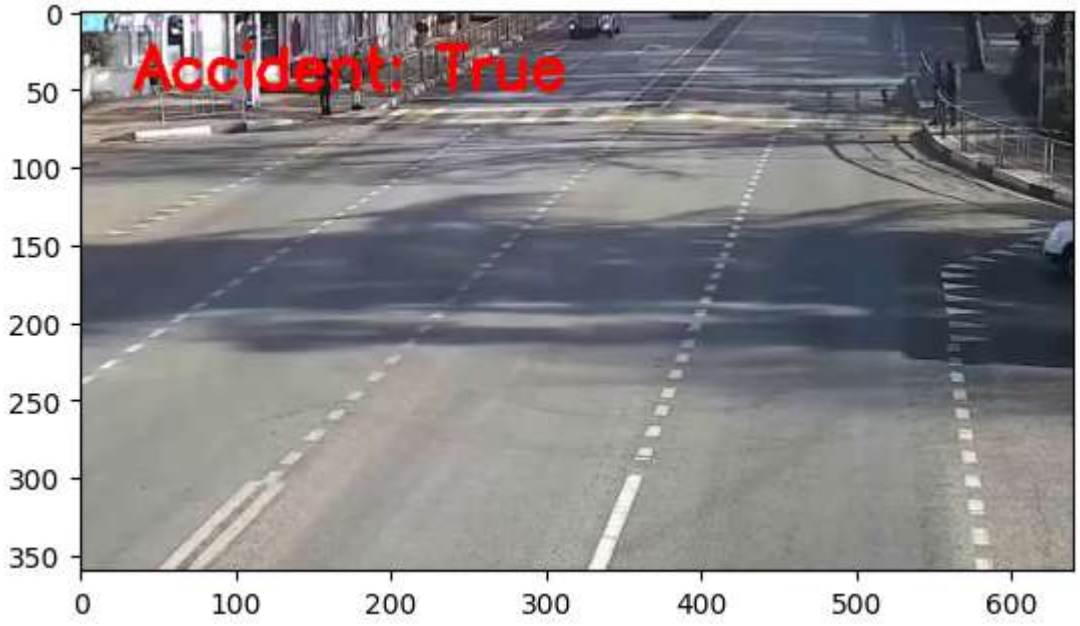
```
import cv2
import numpy as np
import requests
from collections import deque
import matplotlib.pyplot as plt

def print_results(video, limit=None):
    trueCount = 0
    imageSaved = 0
    filename = 'demo.jpg'
    finalImage = 'finaImage.jpg'
    sendAlert = 0
    location = "Bangalore"

    print("Loading model ...")
    model = load_model('/content/drive/MyDrive/DLSIP/data/modelnew.h5')
    Q = deque(maxlen=128)
    vs = cv2.VideoCapture(video)
    writer = None
    (W, H) = (None, None)
    count = 0

    while True:
        (grabbed, frame) = vs.read()

        if not grabbed:
            break

        if W is None or H is None:
            (H, W) = frame.shape[:2]

        output = frame.copy()

        frame = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
        frame = cv2.resize(frame, (128, 128)).astype("float32")
        frame = frame.reshape(128, 128, 3) / 255

        preds = model.predict(np.expand_dims(frame, axis=0))[0]
        Q.append(preds)

        results = np.array(Q).mean(axis=0)
        i = (preds > 0.50)[0]
        label = i

        text_color = (0, 255, 0)

        if label:
            text_color = (0, 0, 255)
            trueCount += 1

        text = "Accident: {}".format(label)
        FONT = cv2.FONT_HERSHEY_SIMPLEX

        cv2.putText(output, text, (35, 50), FONT, 1.25, text_color, 3)

        if writer is None:
            fourcc = cv2.VideoWriter_fourcc(*"MJPG")
            writer = cv2.VideoWriter("/content/drive/MyDrive/DLSIP/data/recorded
```

```
        writer.write(output)

        plt.imshow(cv2.cvtColor(output, cv2.COLOR_BGR2RGB))
        plt.show()

        if trueCount == 50:
            if imageSaved == 0:
                if label:
                    cv2.imwrite(filename, output)
                    imageSaved = 1

            if sendAlert == 0:
                timeMoment = getTime()
                bot_token = '6995313518:AAEk75VKT4joXvDpiDeeLudi4h7S_zaej3o'
                msg = f"Accident Detection!!\nLOCATION: {location}\nTIME: {timeM
                send_msg_on_telegram(msg, bot_token, filename)
                sendAlert = 1

        key = cv2.waitKey(1) & 0xFF

        if key == ord("q"):
            break

    print("[INFO] cleaning up...")
    writer.release()
    vs.release()

def send_msg_on_telegram(msg, bot_token, image_path):
    telegram_api_url = f"https://api.telegram.org/bot{bot_token}/sendPhoto"
    files = {'photo': open(image_path, 'rb')}
    params = {
        'chat_id': '@violence_detect',
        'caption': msg
    }
    tel_resp = requests.post(telegram_api_url, params=params, files=files)
    if tel_resp.status_code == 200:
        print("Notification has been sent on Telegram")
    else:
        print("Could not send Message")

V_path = "/content/drive/MyDrive/DLSIP/data/videoplayback (online-video-cutter.c
print_results(V_path)
```

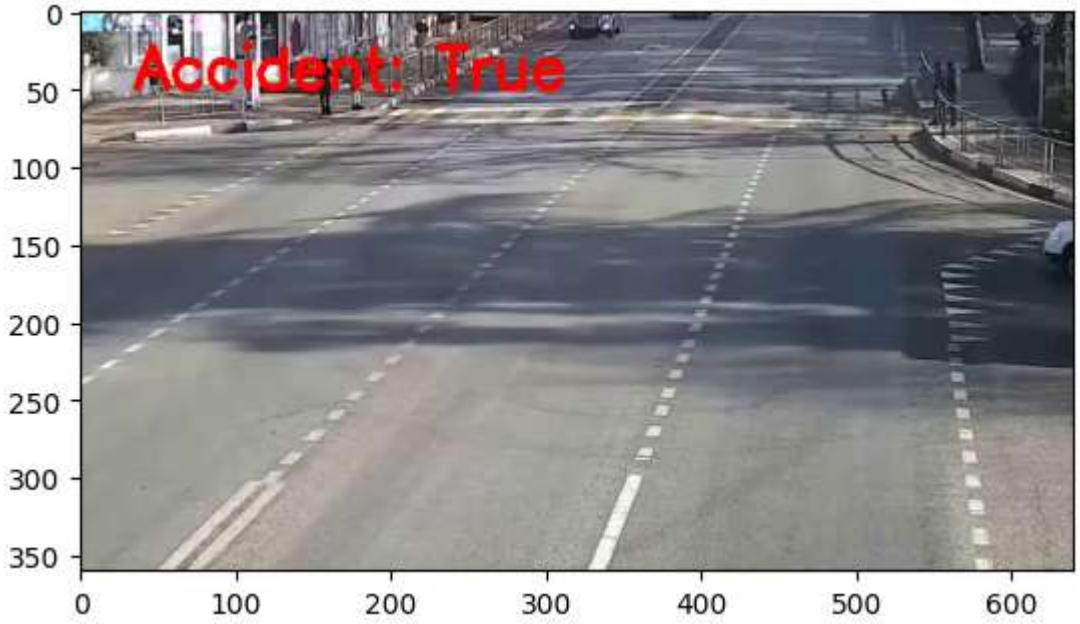
```
Loading model ...
1/1 [==============================] - 1s 941ms/step
```



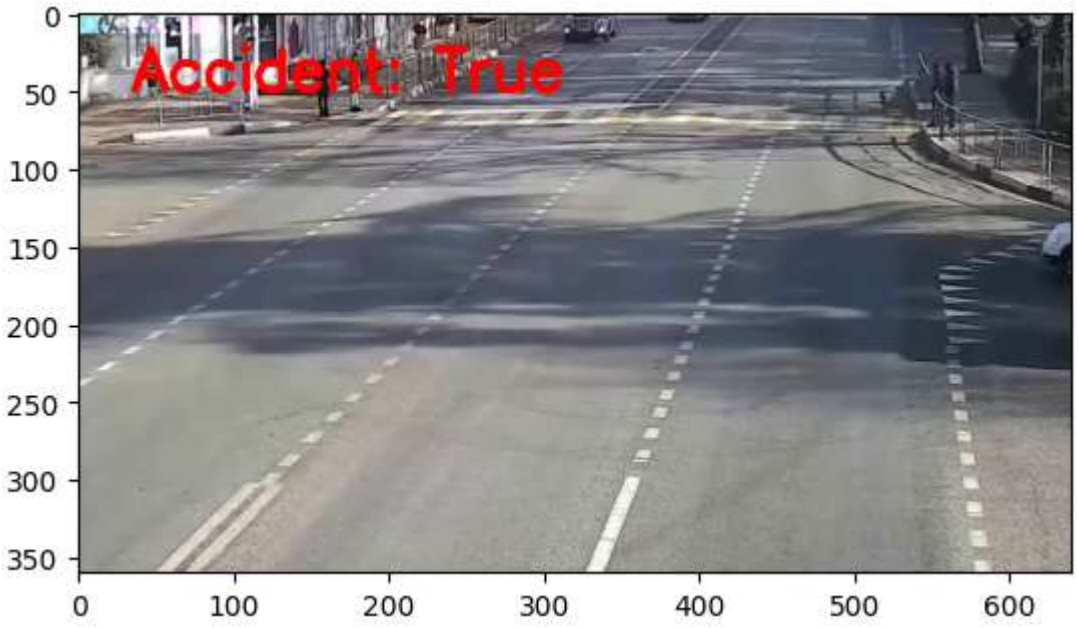

```
1/1 [==============================] - 0s 33ms/step
```



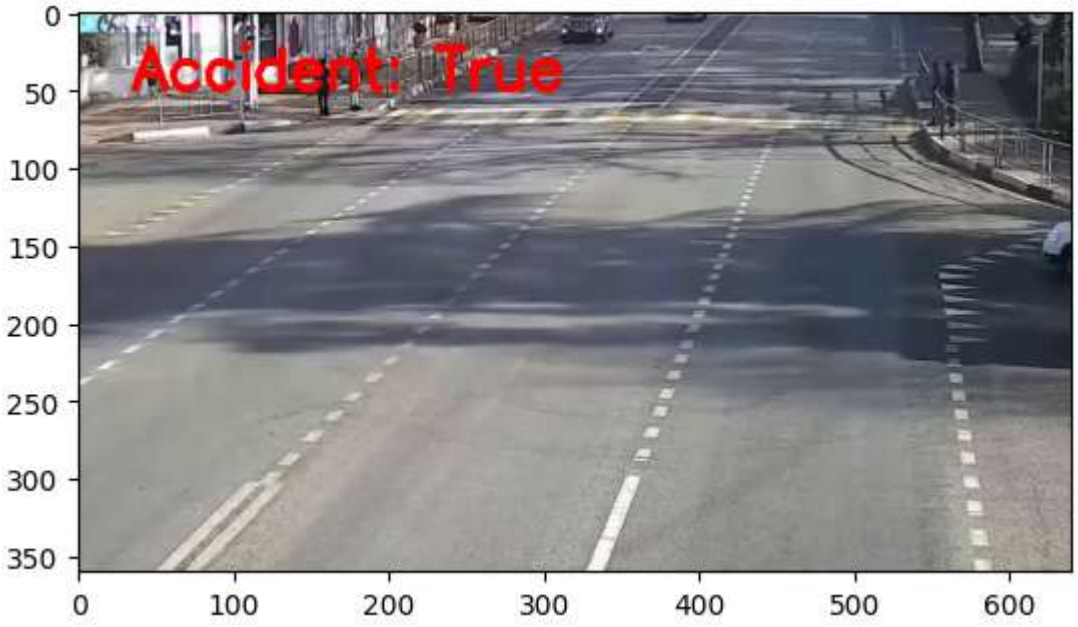

```
1/1 [==============================] - 0s 36ms/step
```



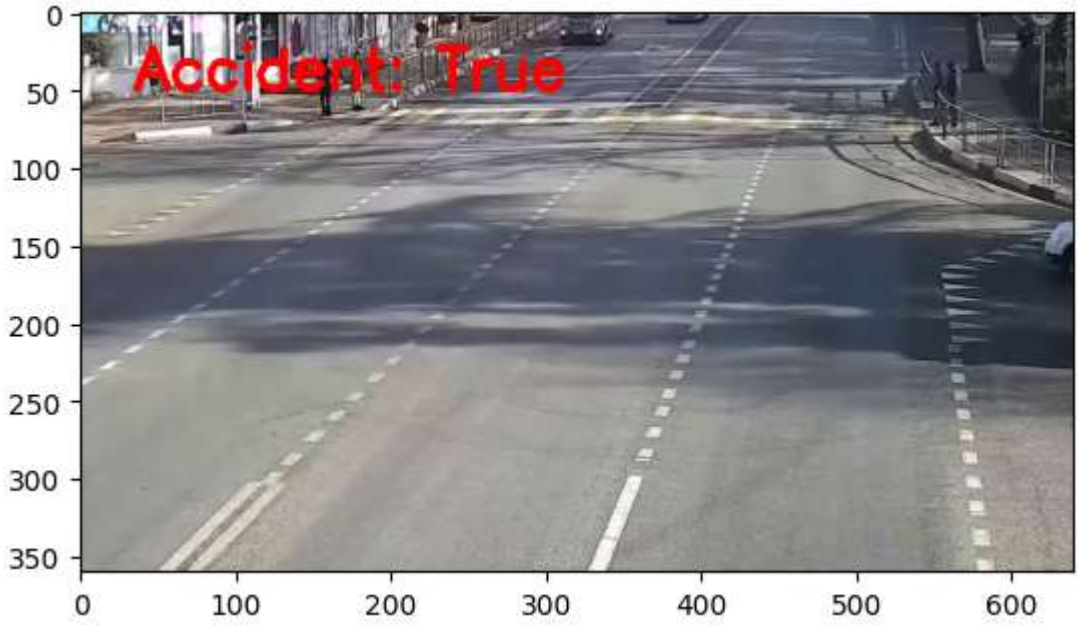
```
1/1 [==============================] - 0s 48ms/step
```



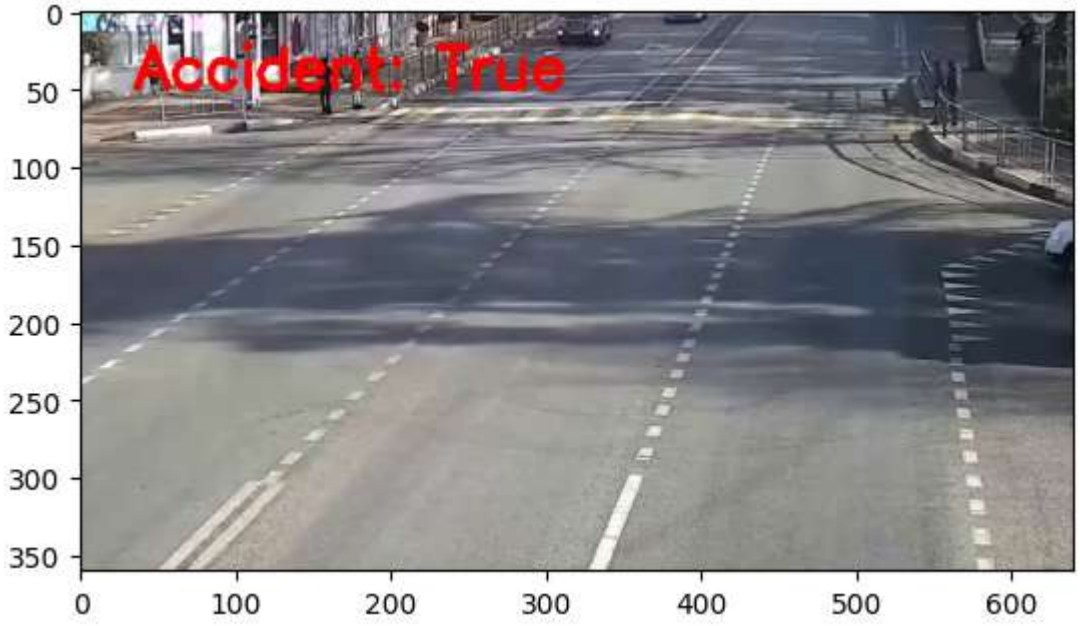

```
1/1 [==============================] - 0s 72ms/step
```



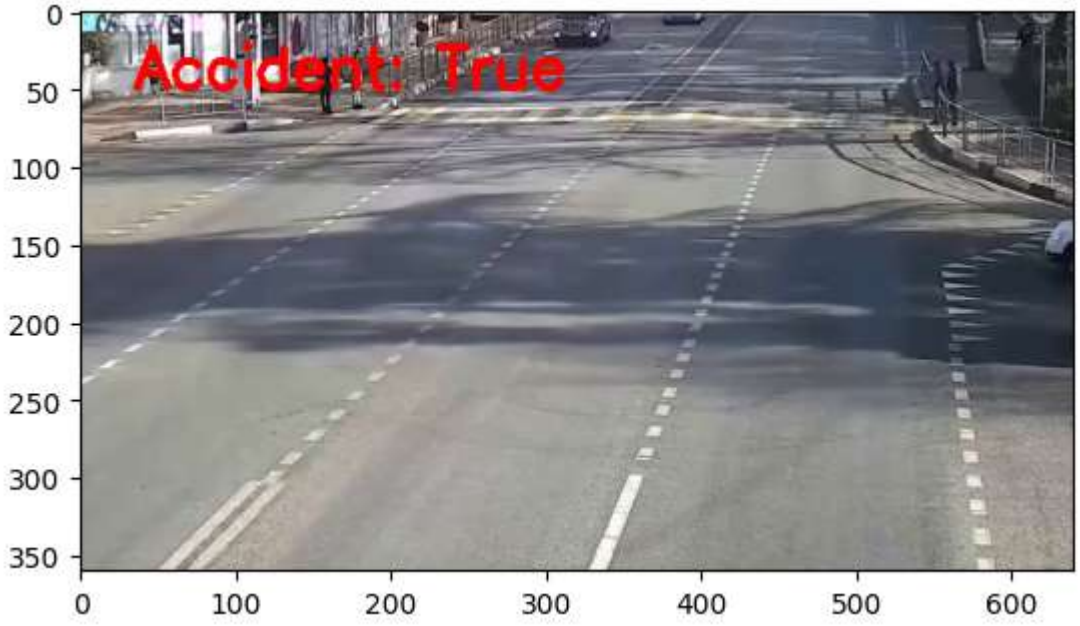

```
1/1 [==============================] - 0s 65ms/step
```



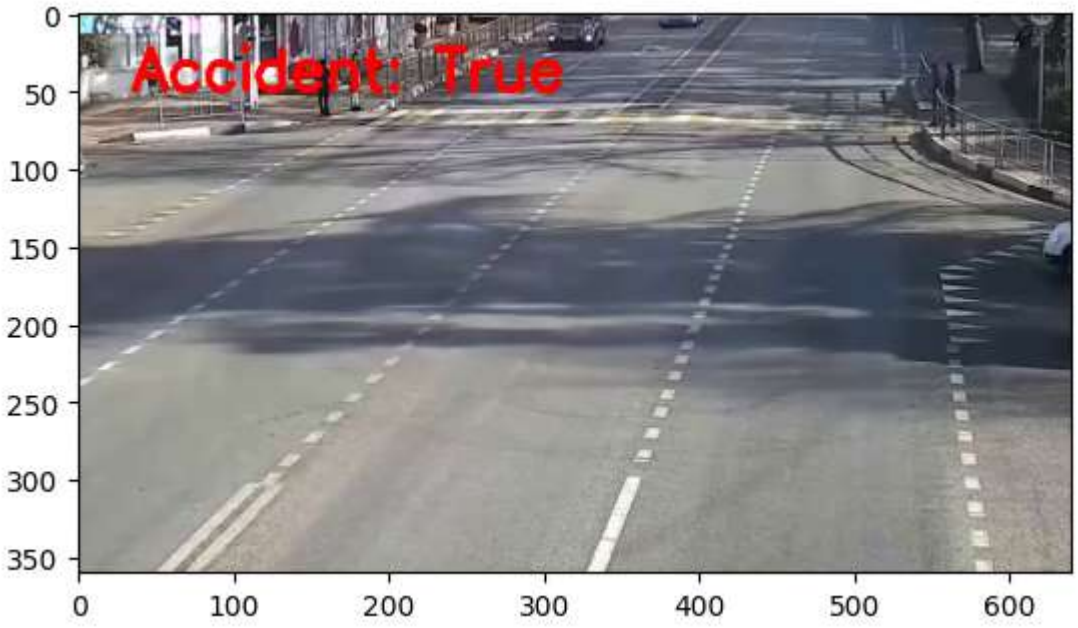

```
1/1 [==============================] - 0s 61ms/step
```



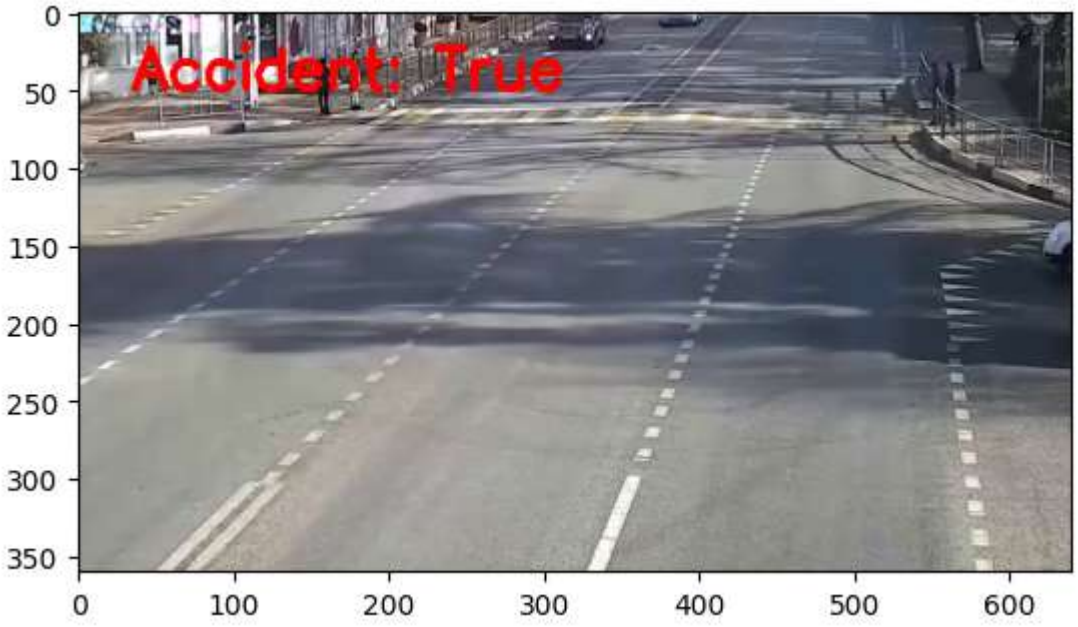

```
1/1 [==============================] - 0s 50ms/step
```



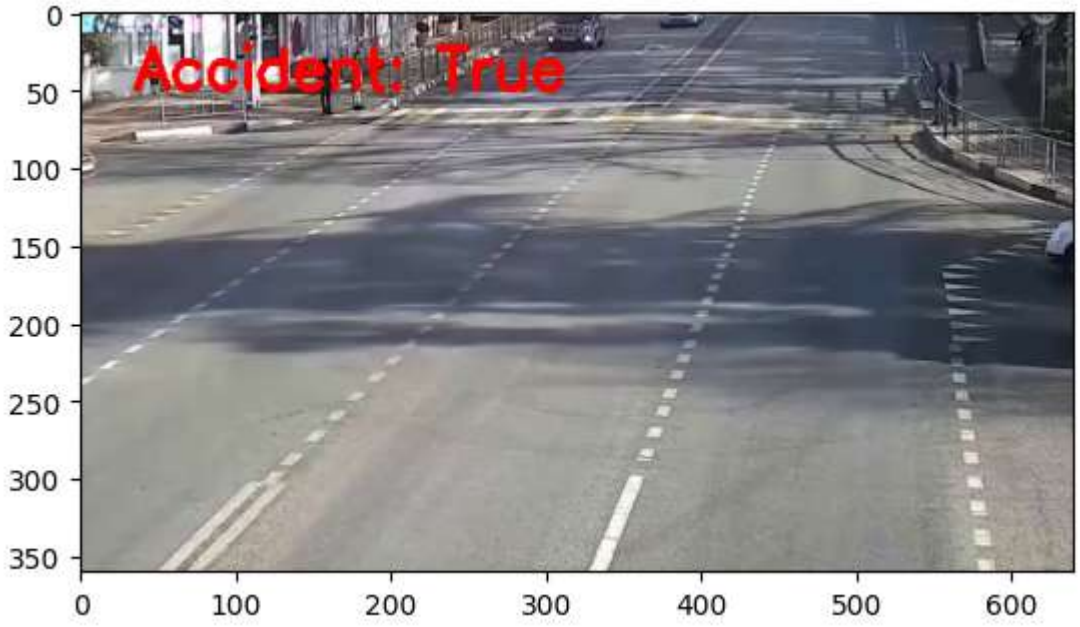
```
1/1 [==============================] - 0s 59ms/step
```



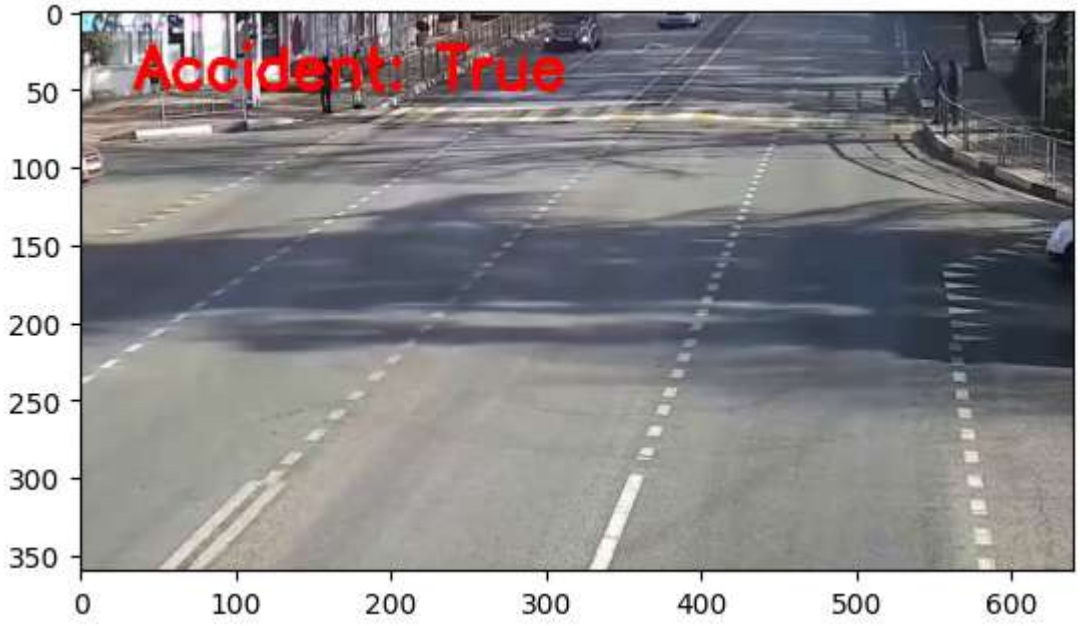

```
1/1 [==============================] - 0s 96ms/step
```



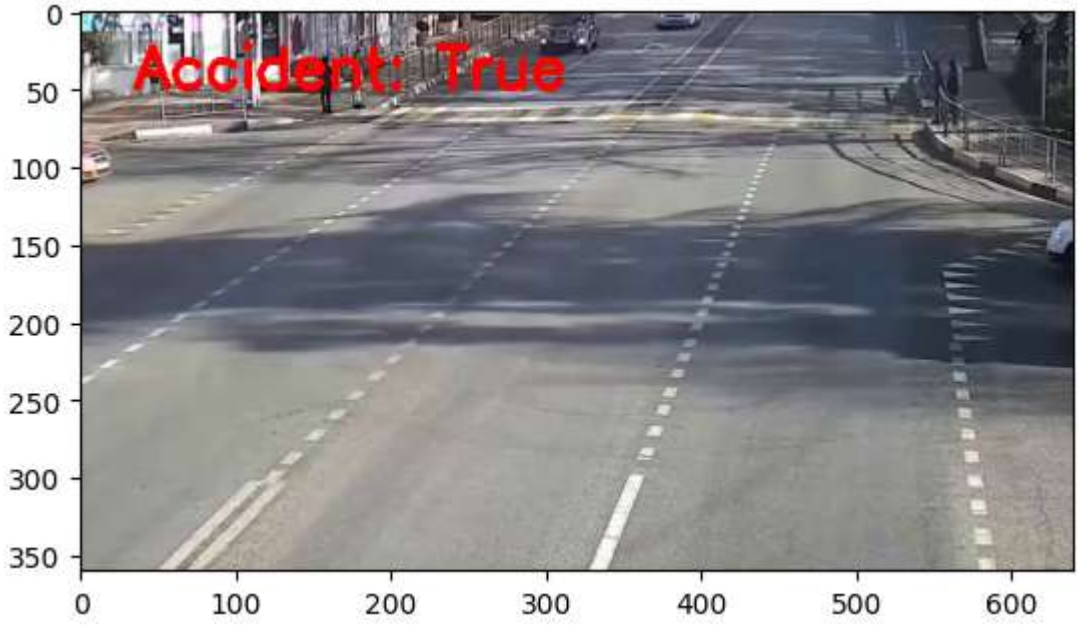

```
1/1 [==============================] - 0s 75ms/step
```



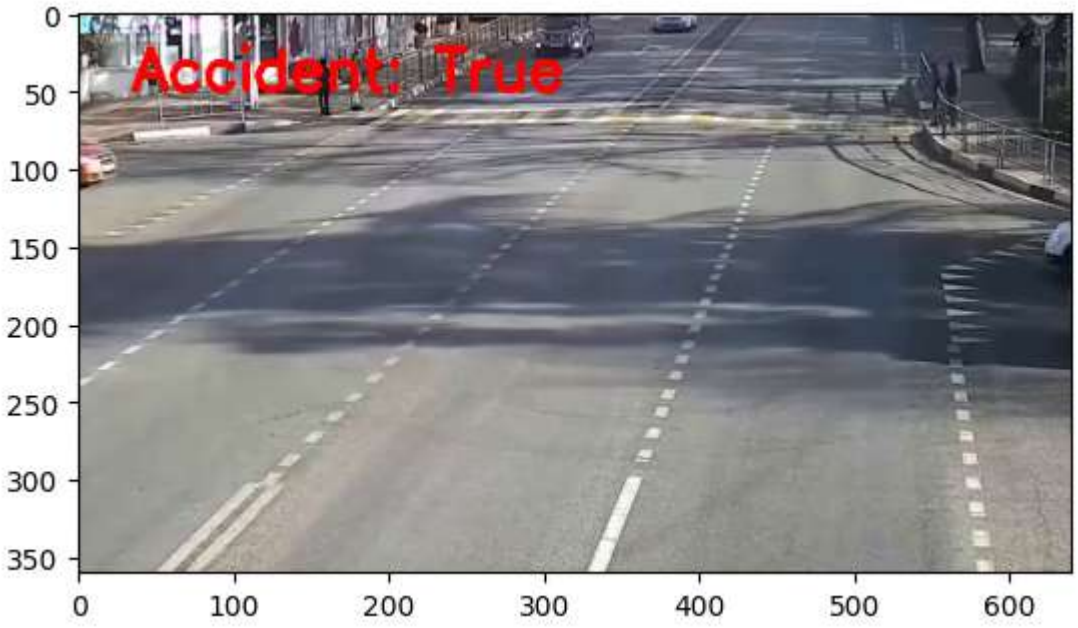

```
1/1 [==============================] - 0s 36ms/step
```



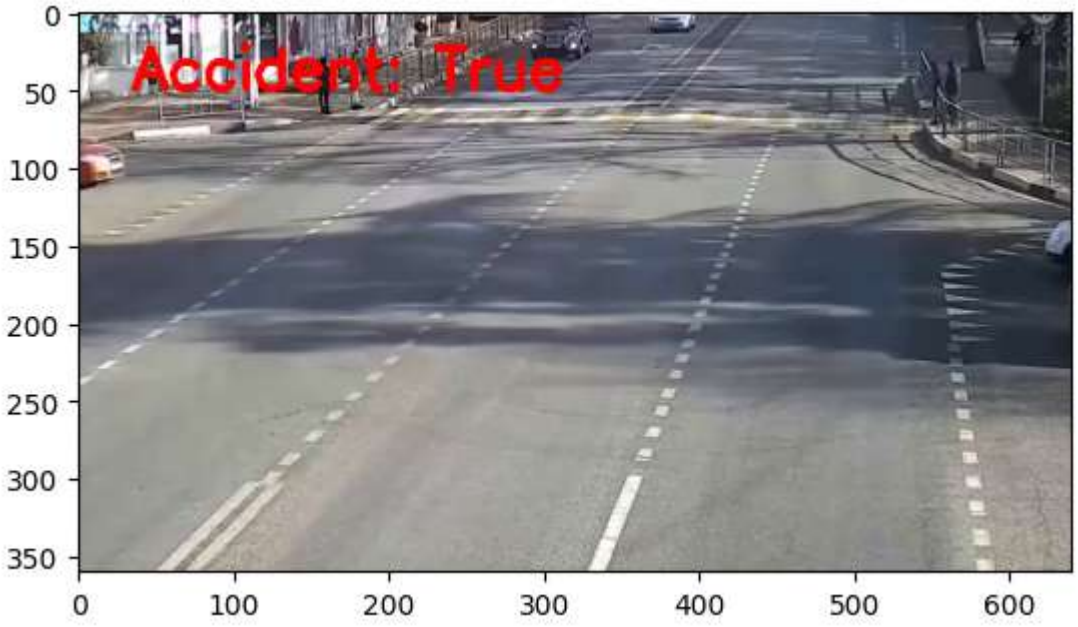

```
1/1 [==============================] - 0s 42ms/step
```



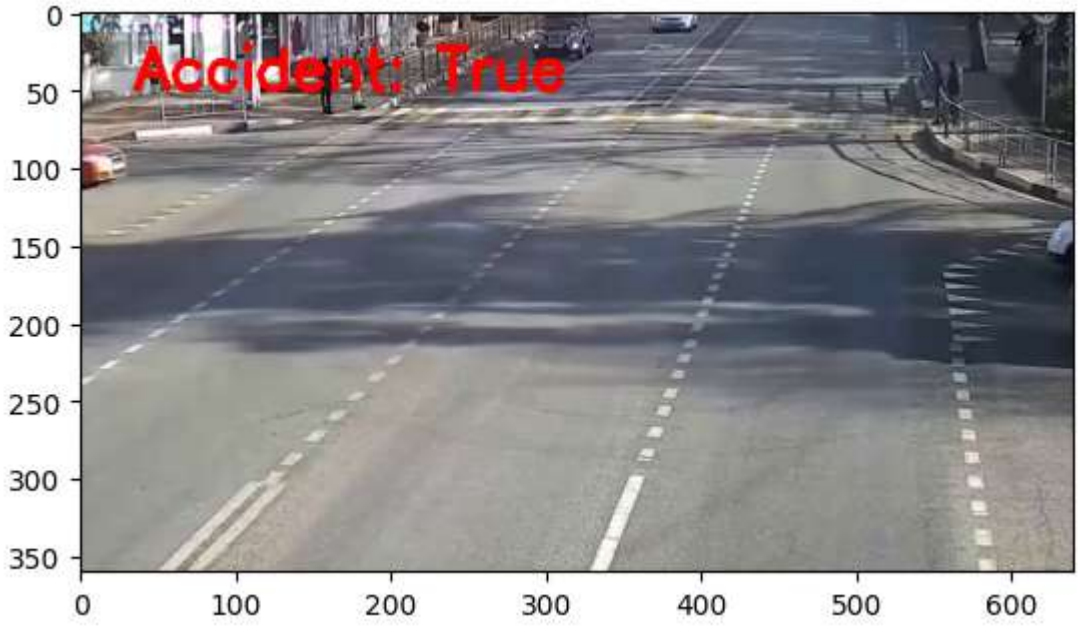
```
1/1 [==============================] - 0s 64ms/step
```



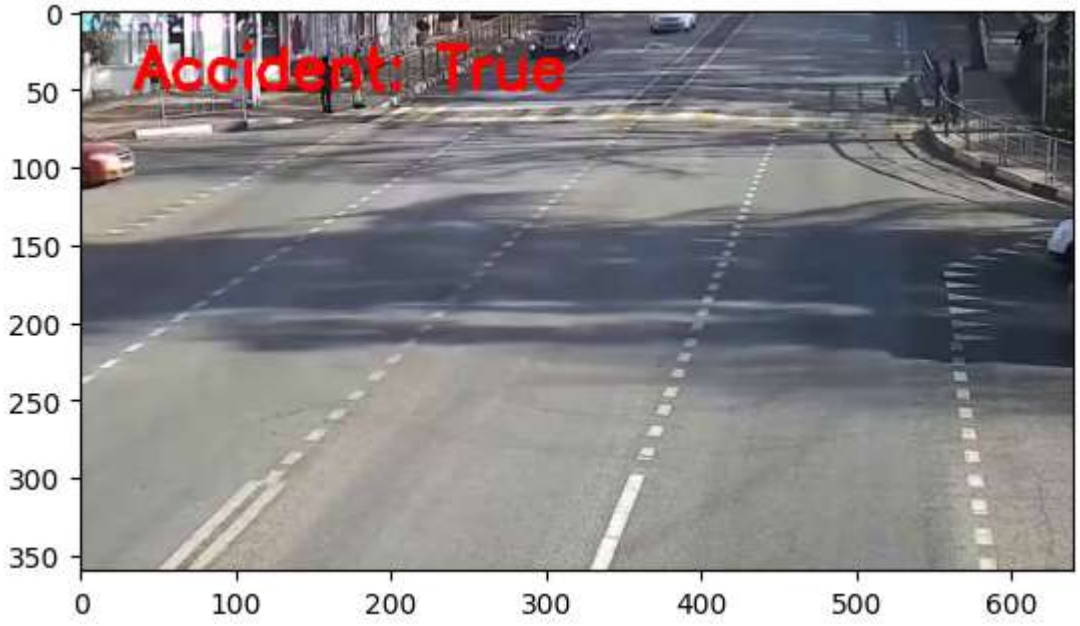

```
1/1 [==============================] - 0s 31ms/step
```



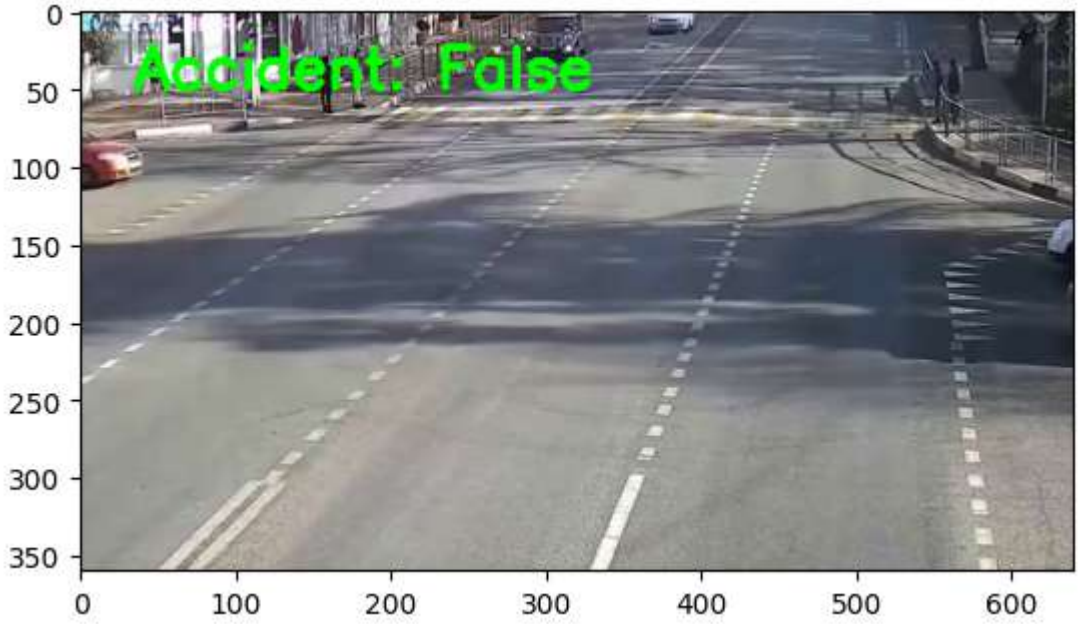

```
1/1 [==============================] - 0s 96ms/step
```



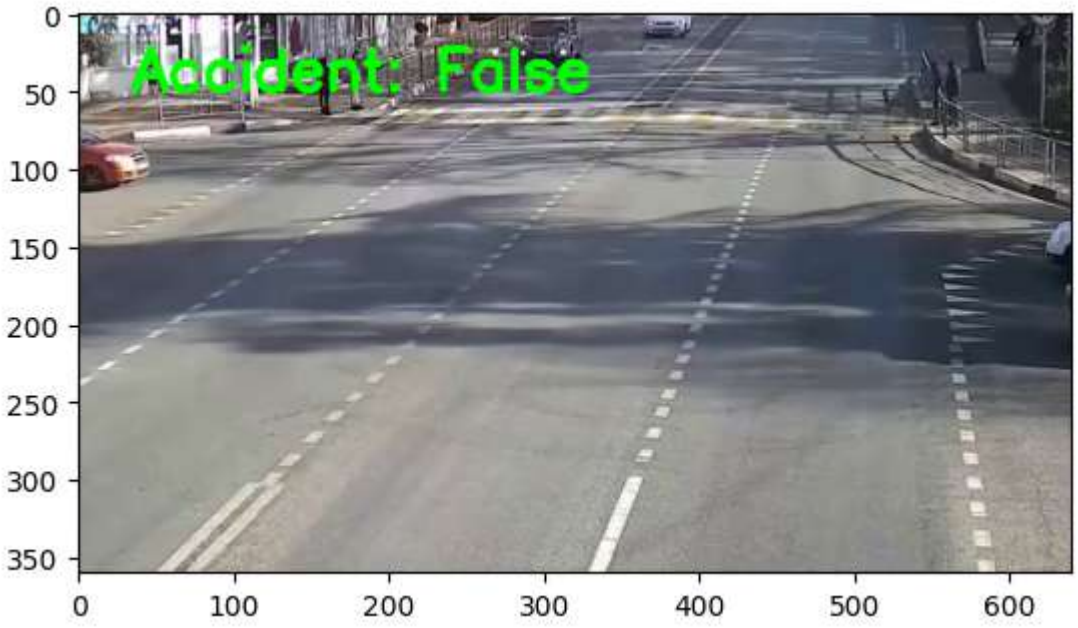

```
1/1 [==============================] - 0s 56ms/step
```



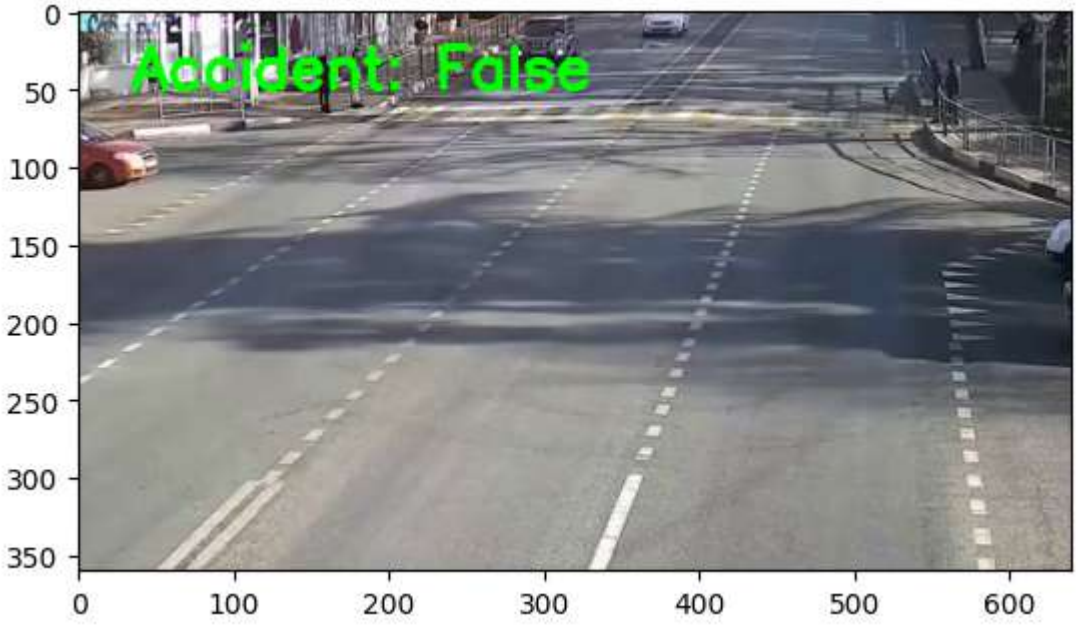

```
1/1 [==============================] - 0s 84ms/step
```



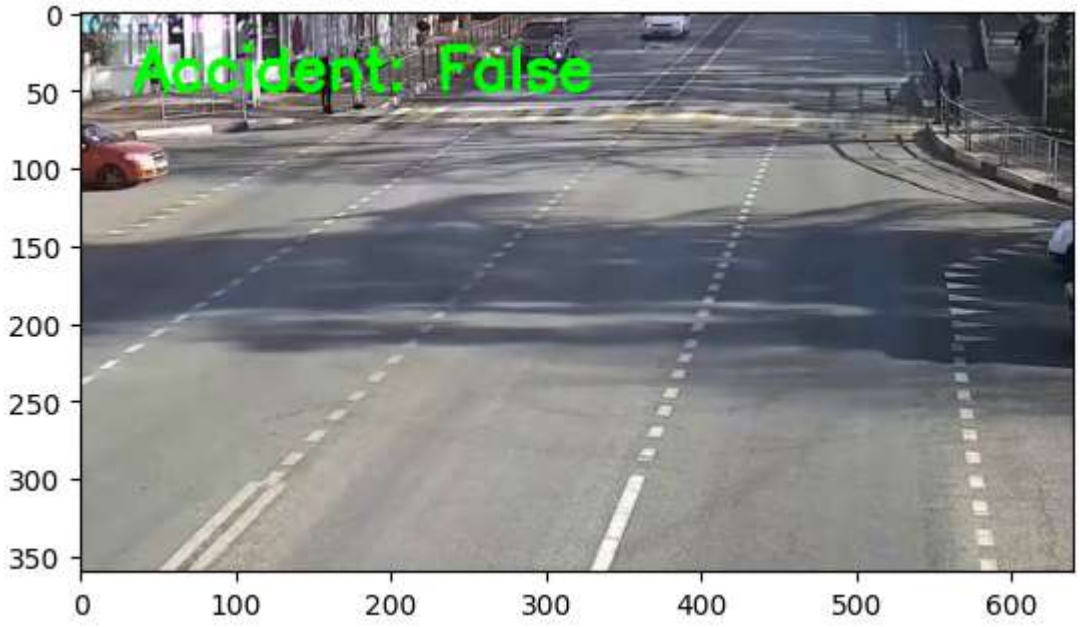
```
1/1 [==============================] - 0s 52ms/step
```



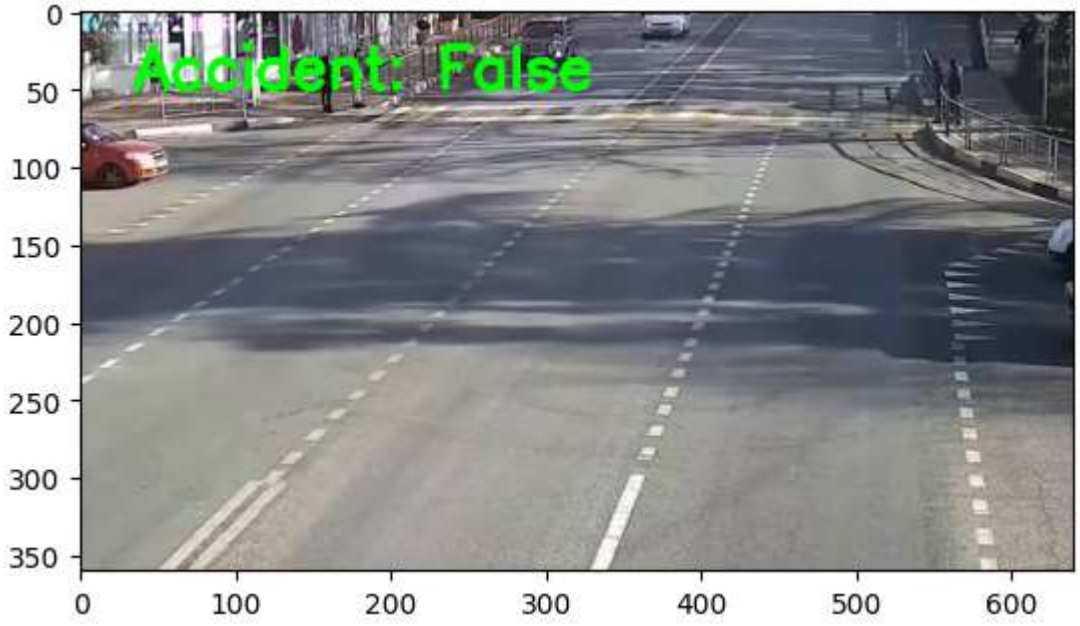

```
1/1 [==============================] - 0s 46ms/step
```



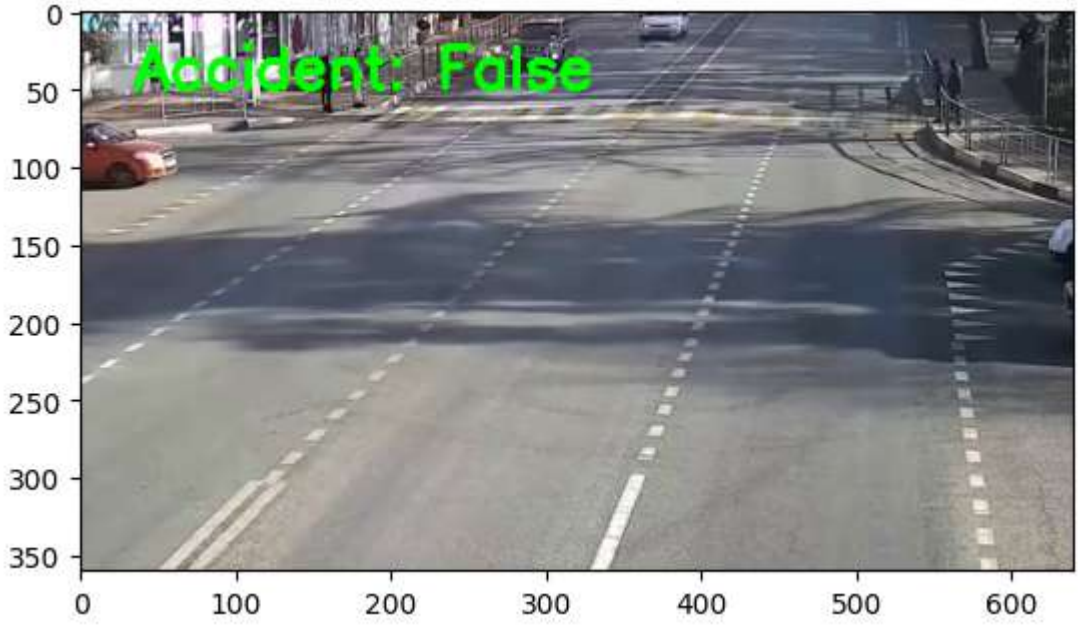

```
1/1 [==============================] - 0s 44ms/step
```



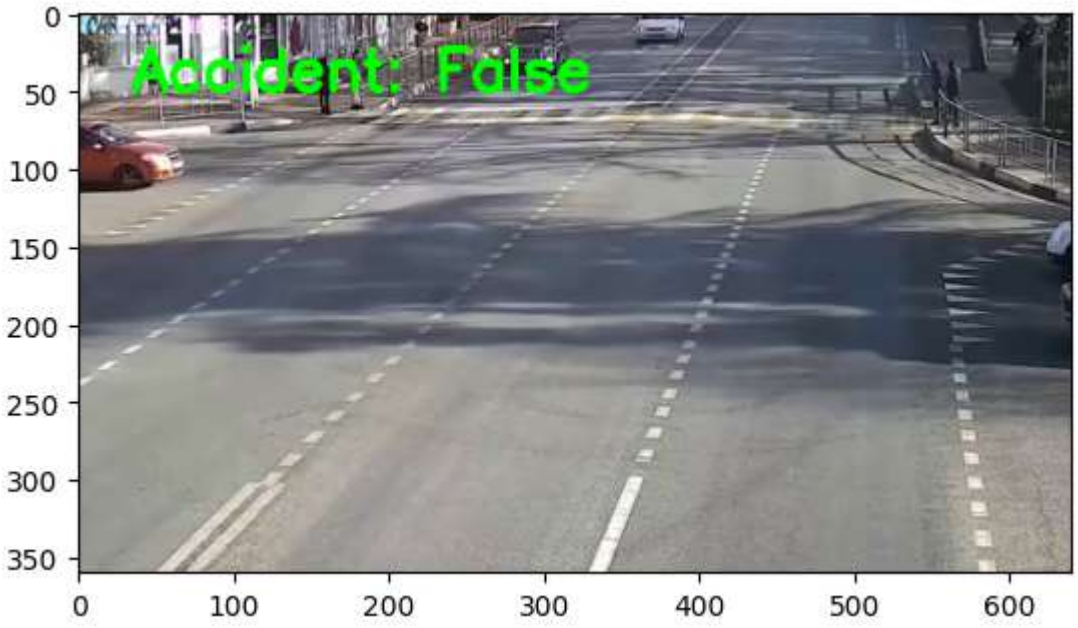

```
1/1 [==============================] - 0s 53ms/step
```



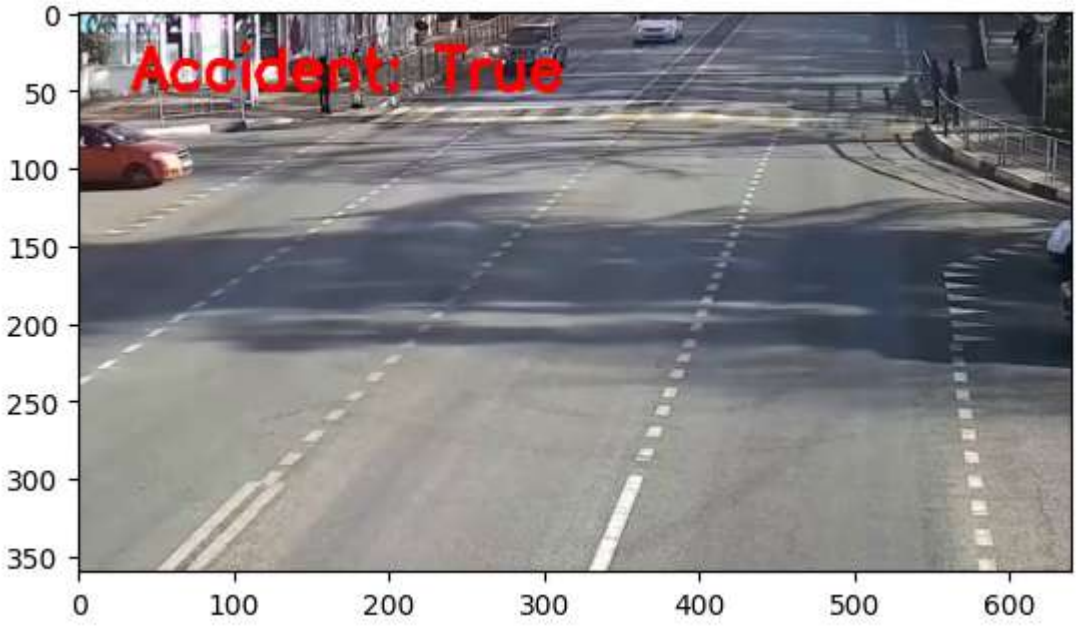

```
1/1 [==============================] - 0s 48ms/step
```



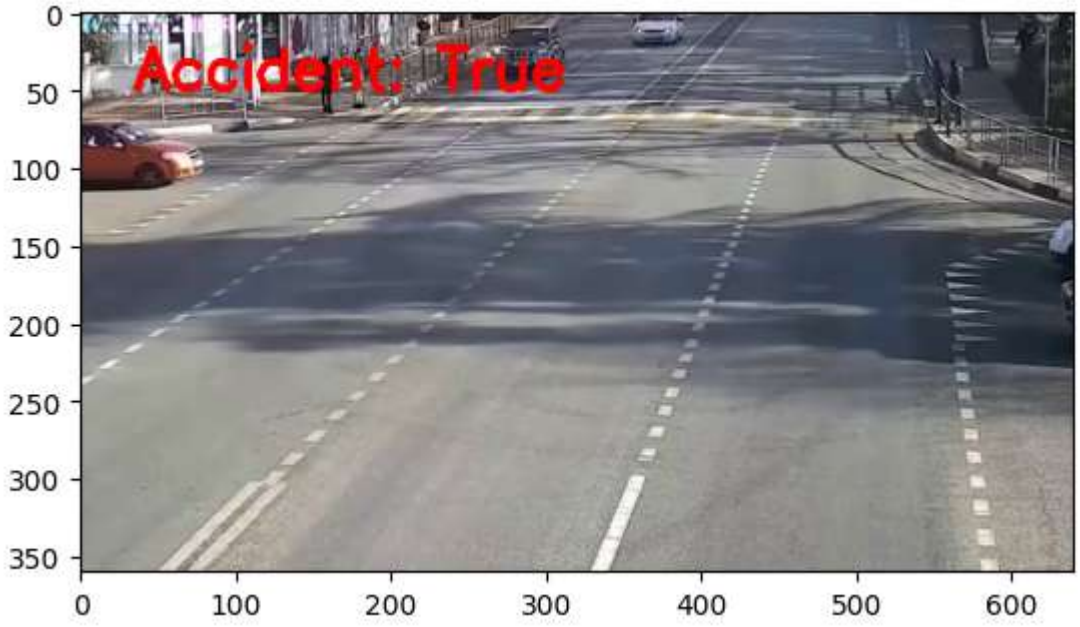
```
1/1 [==============================] - 0s 50ms/step
```



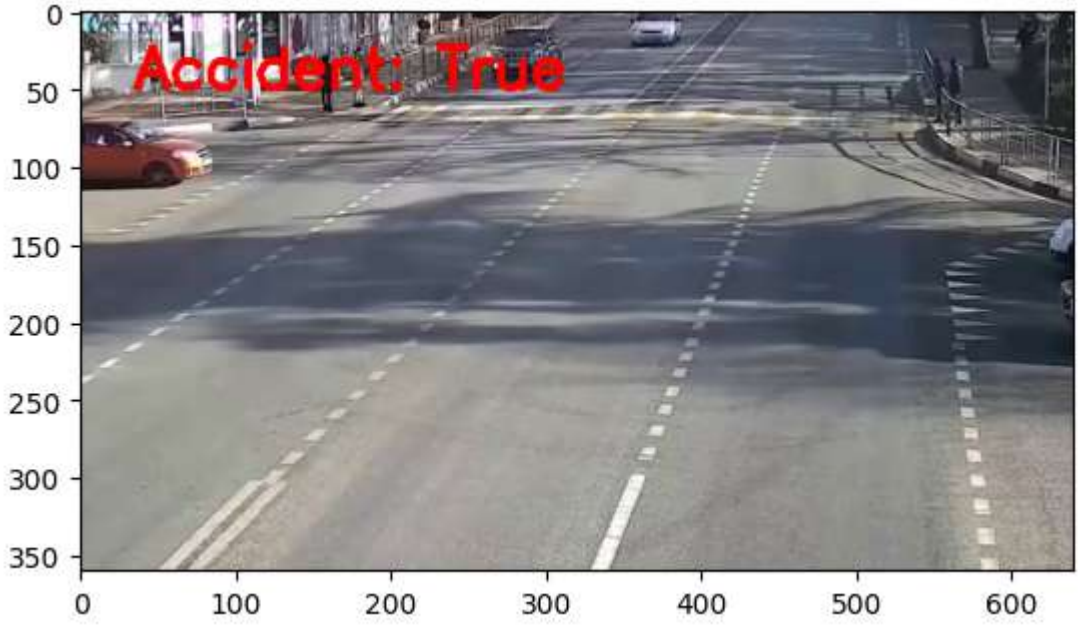

```
1/1 [==============================] - 0s 75ms/step
```



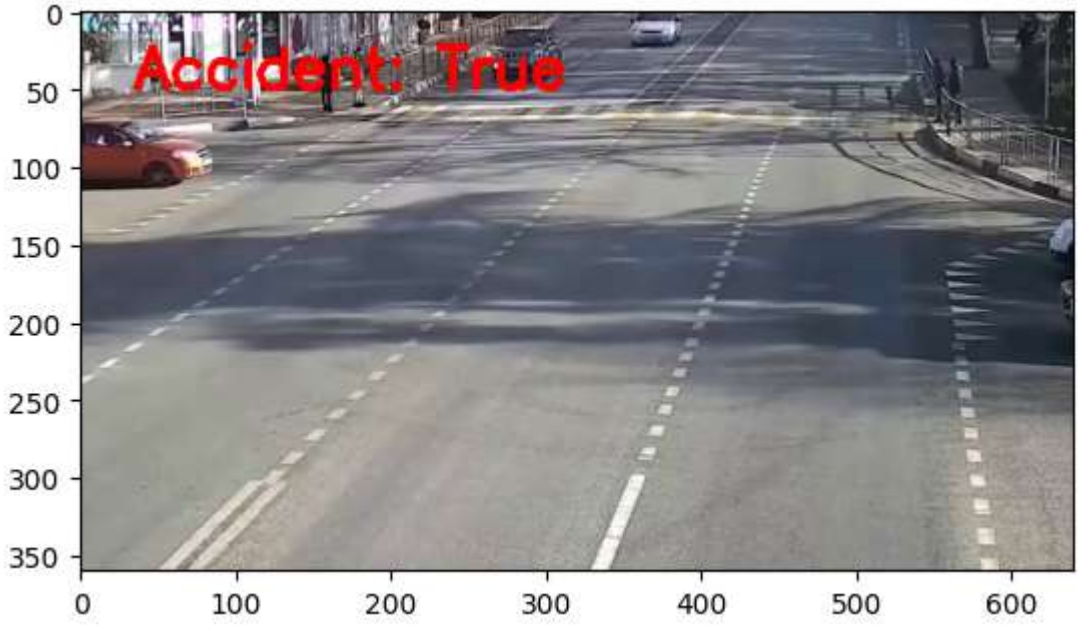

```
1/1 [==============================] - 0s 52ms/step
```



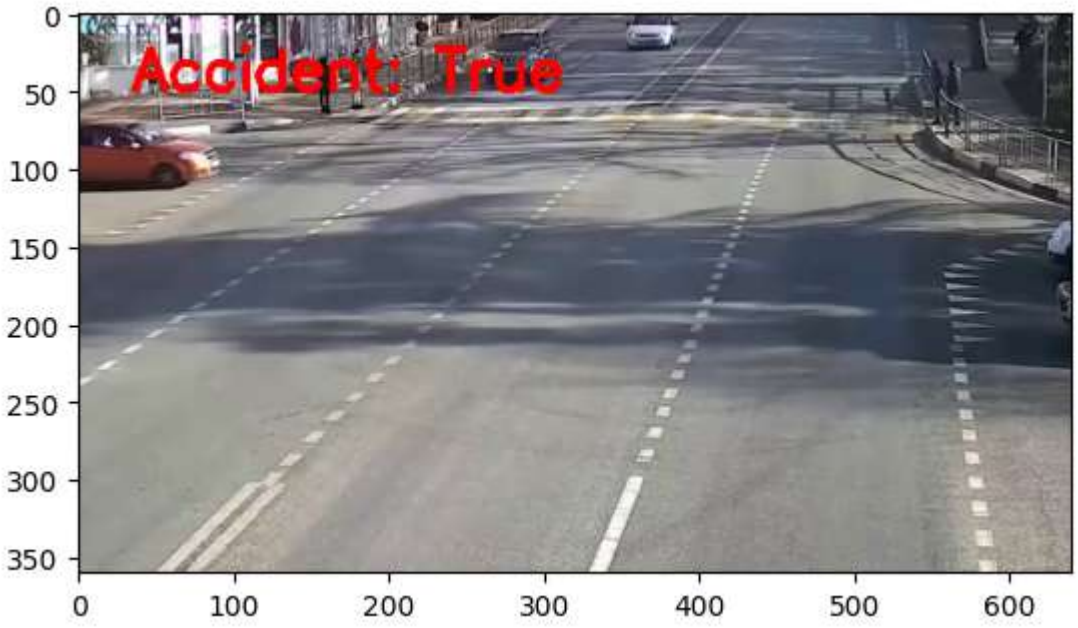

```
1/1 [==============================] - 0s 55ms/step
```



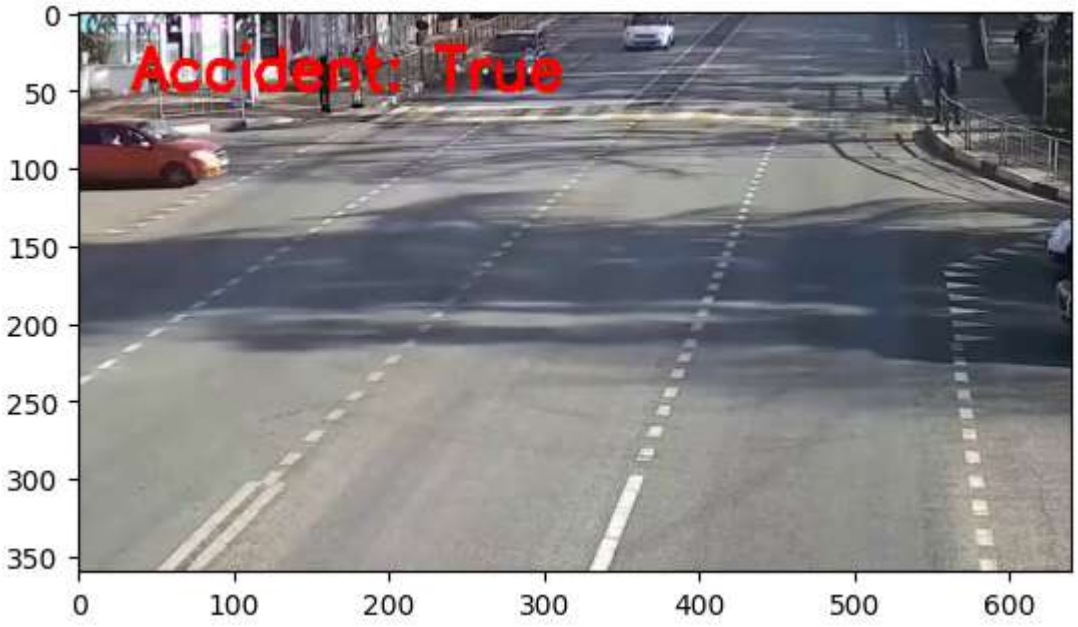

```
1/1 [==============================] - 0s 49ms/step
```



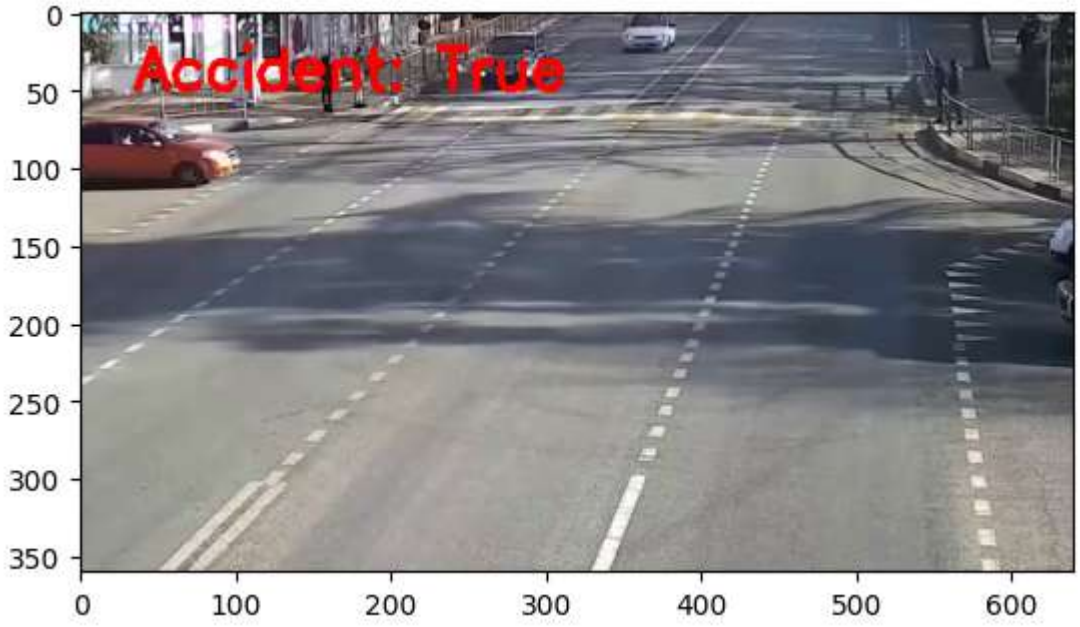
```
1/1 [==============================] - 0s 50ms/step
```



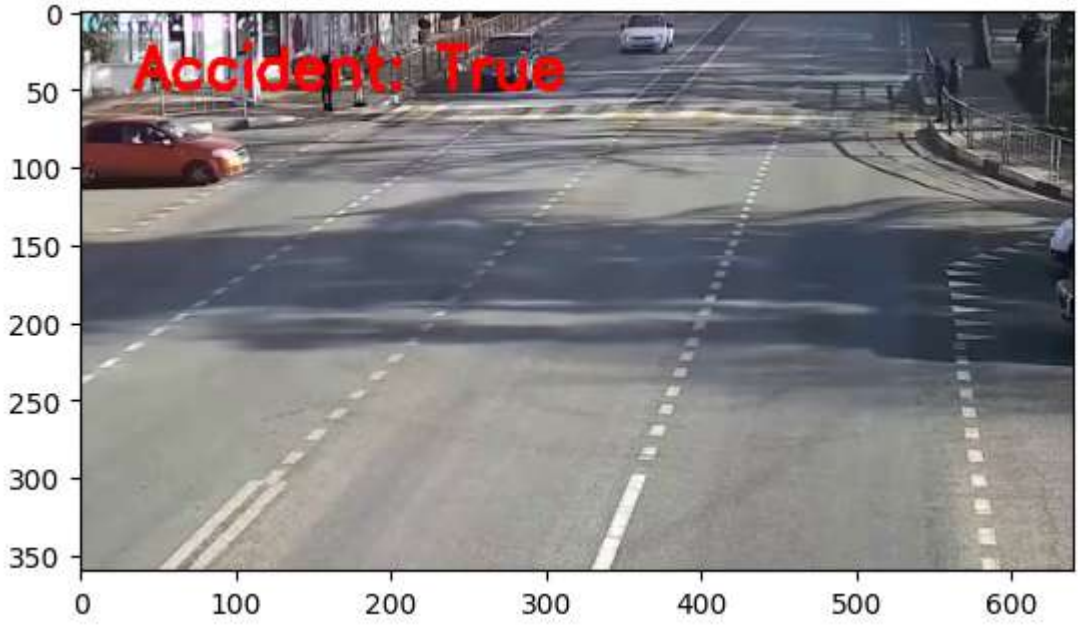

```
1/1 [==============================] - 0s 49ms/step
```



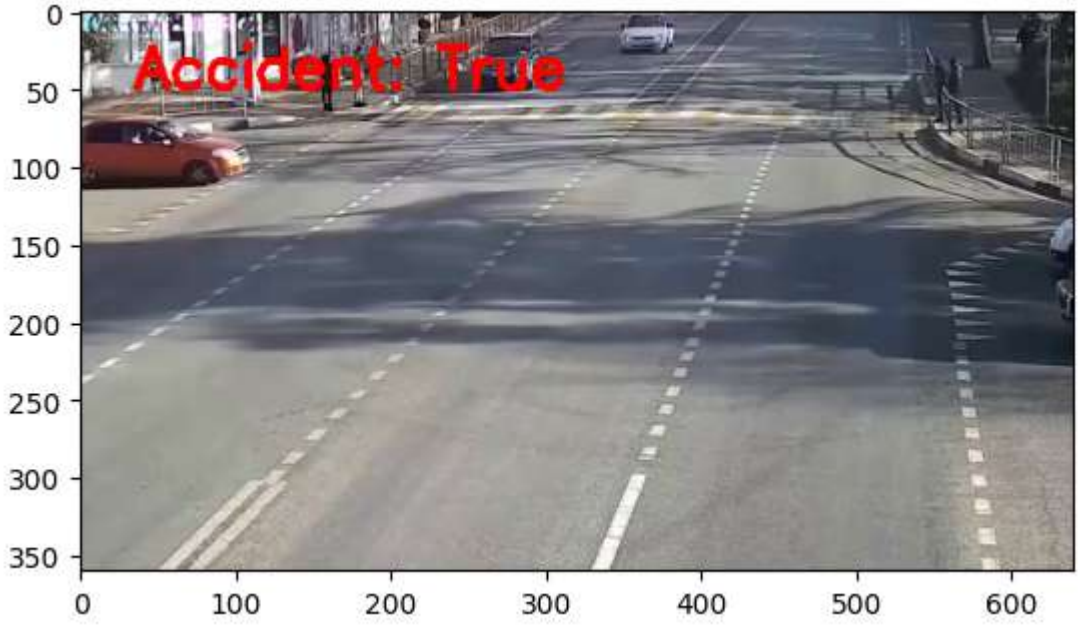

```
1/1 [==============================] - 0s 52ms/step
```



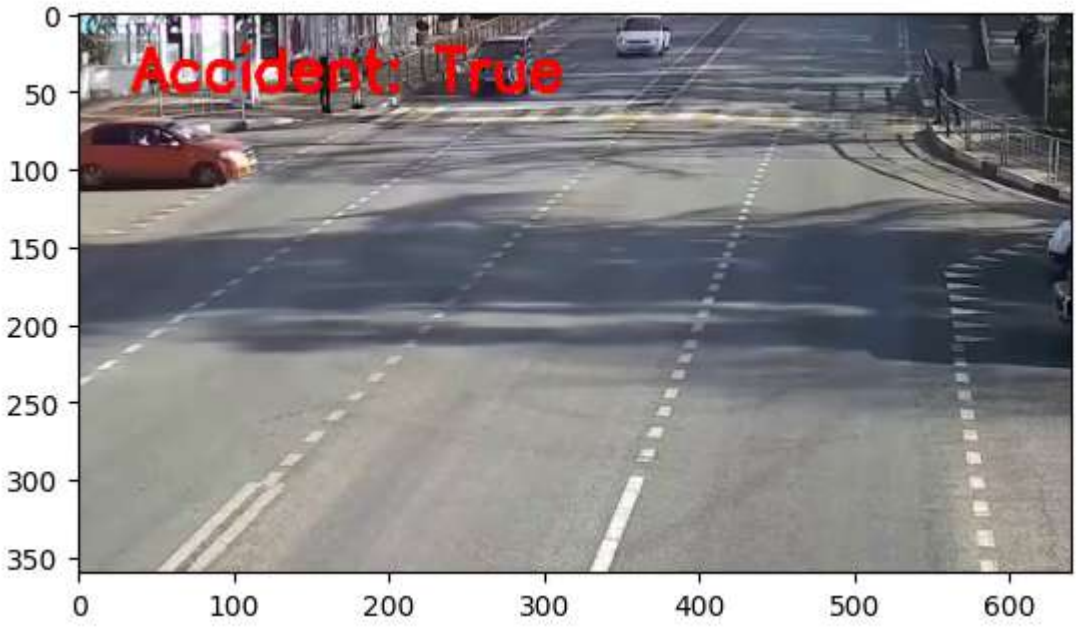

```
1/1 [==============================] - 0s 48ms/step
```



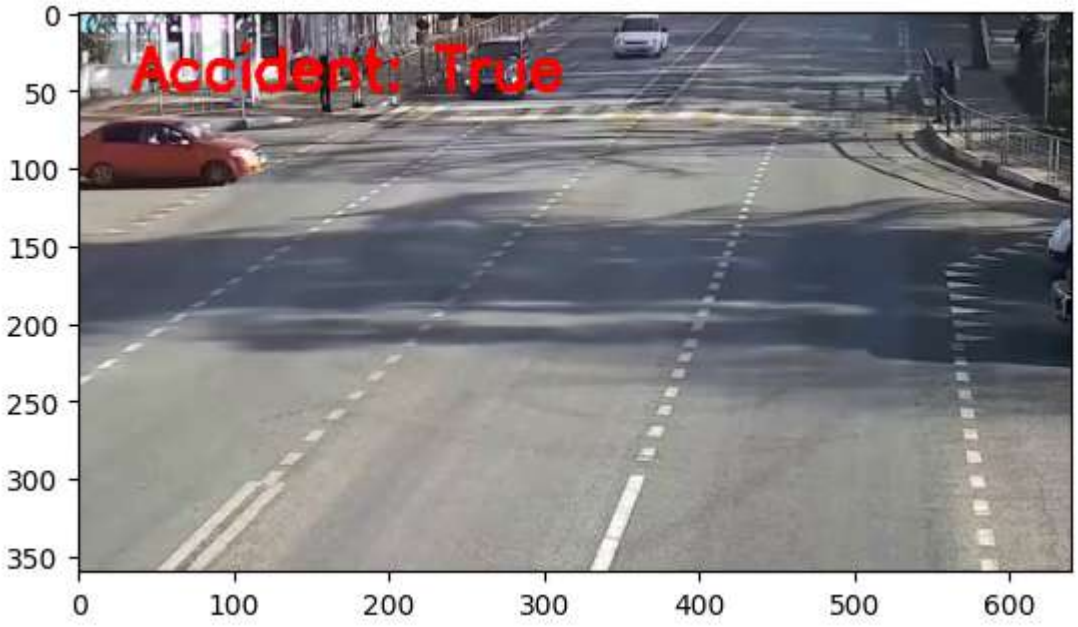

```
1/1 [==============================] - 0s 67ms/step
```



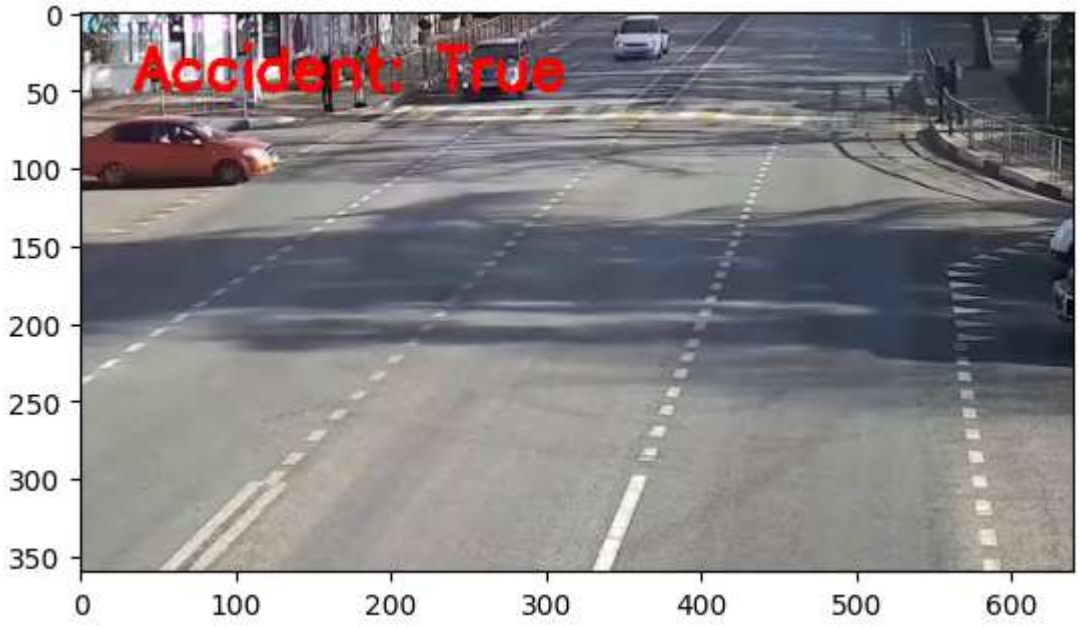
```
1/1 [==============================] - 0s 48ms/step
```



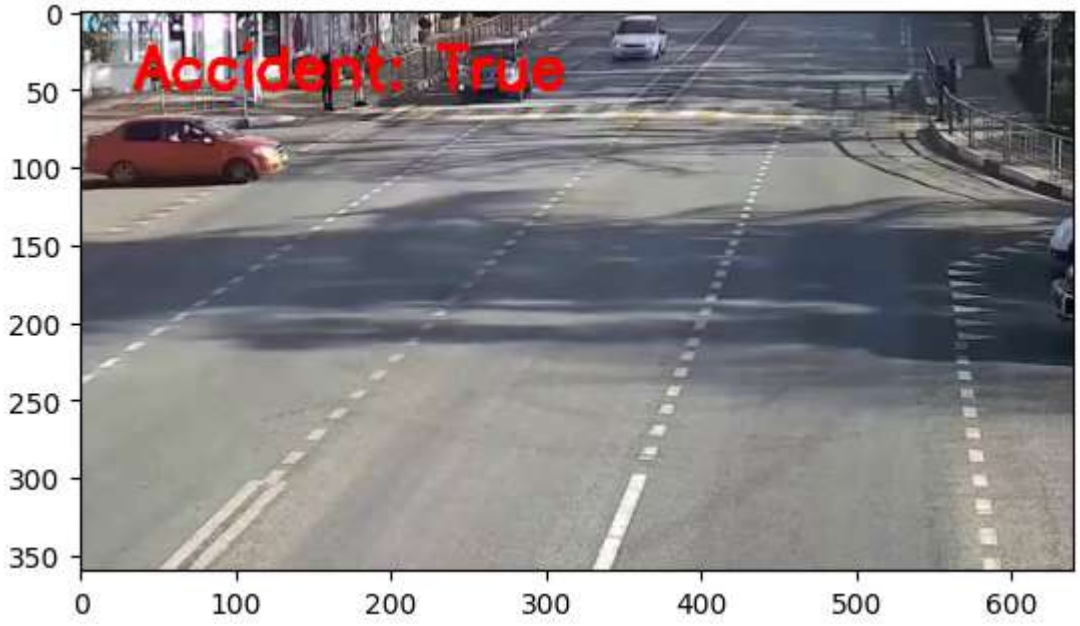

```
1/1 [==============================] - 0s 58ms/step
```



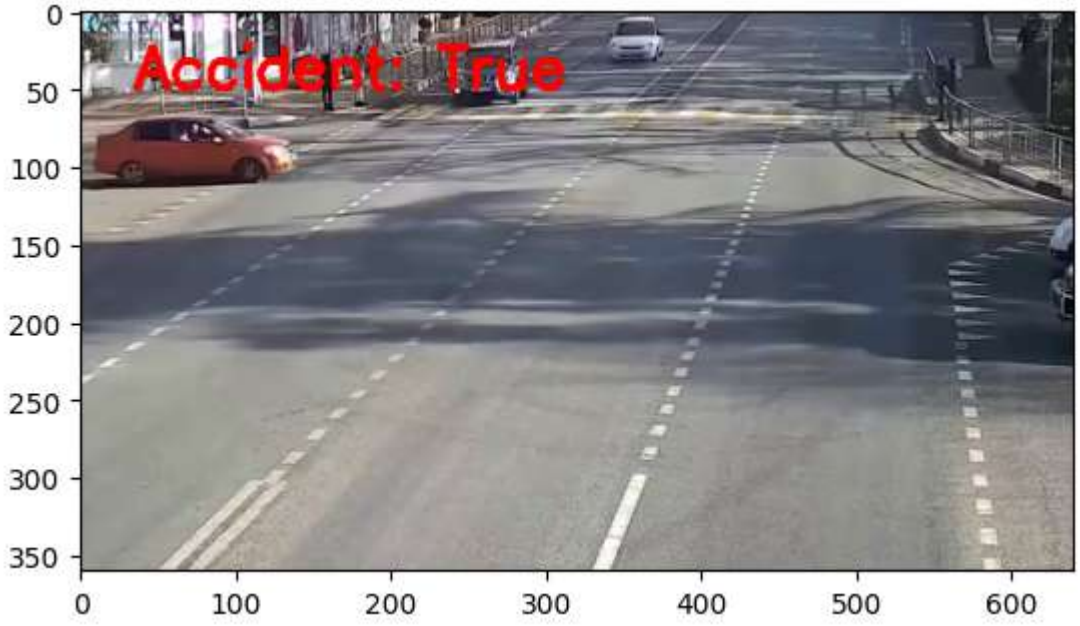

```
1/1 [==============================] - 0s 75ms/step
```



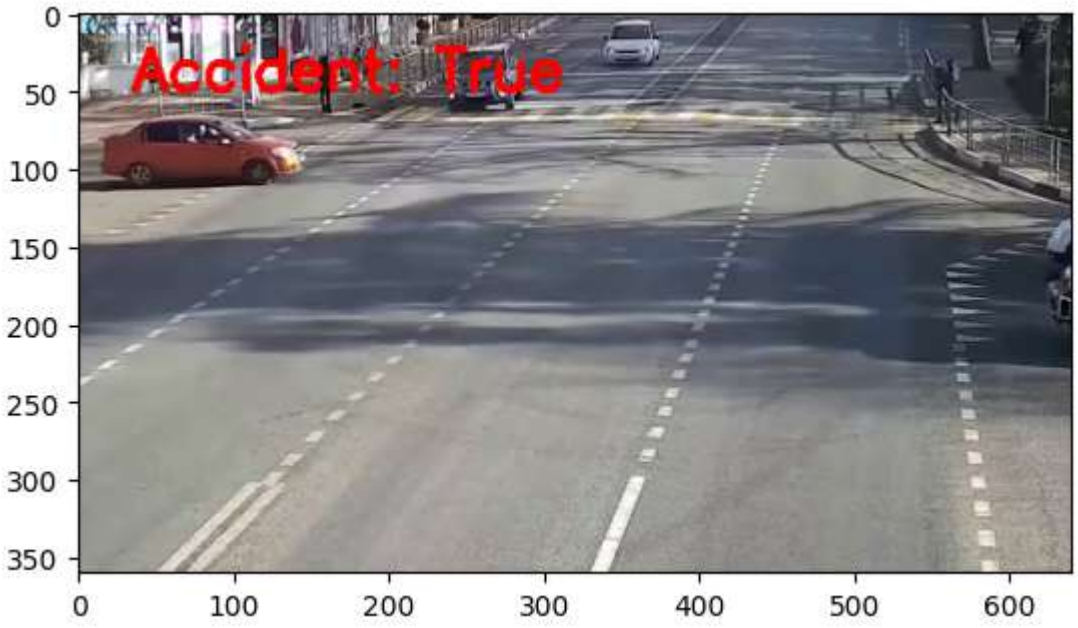

```
1/1 [==============================] - 0s 67ms/step
```



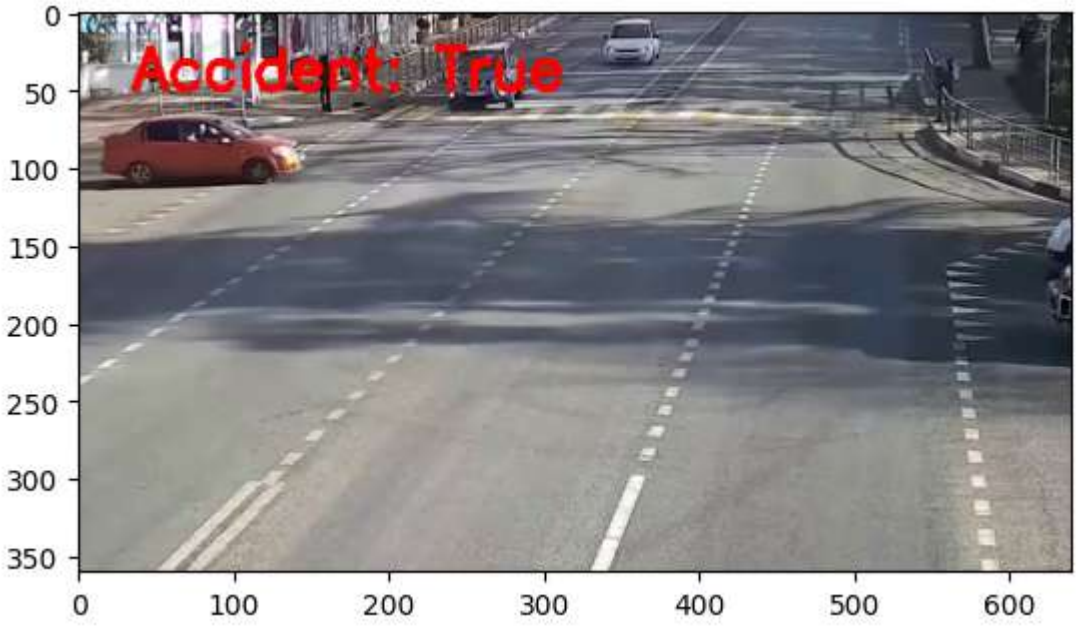

```
1/1 [==============================] - 0s 60ms/step
```



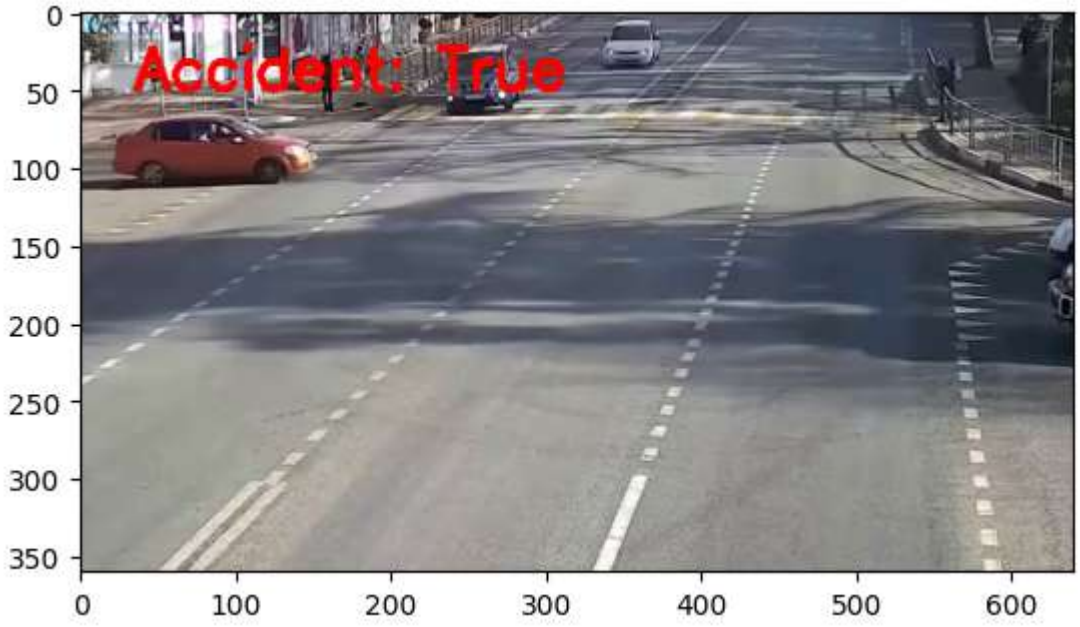
```
1/1 [==============================] - 0s 71ms/step
```



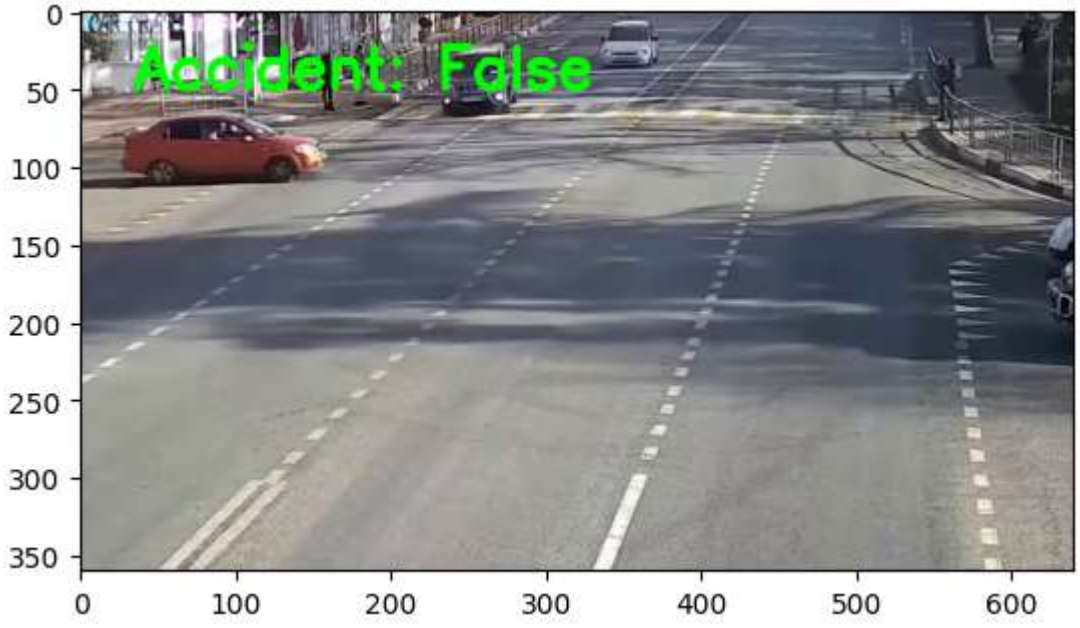

```
1/1 [==============================] - 0s 60ms/step
```



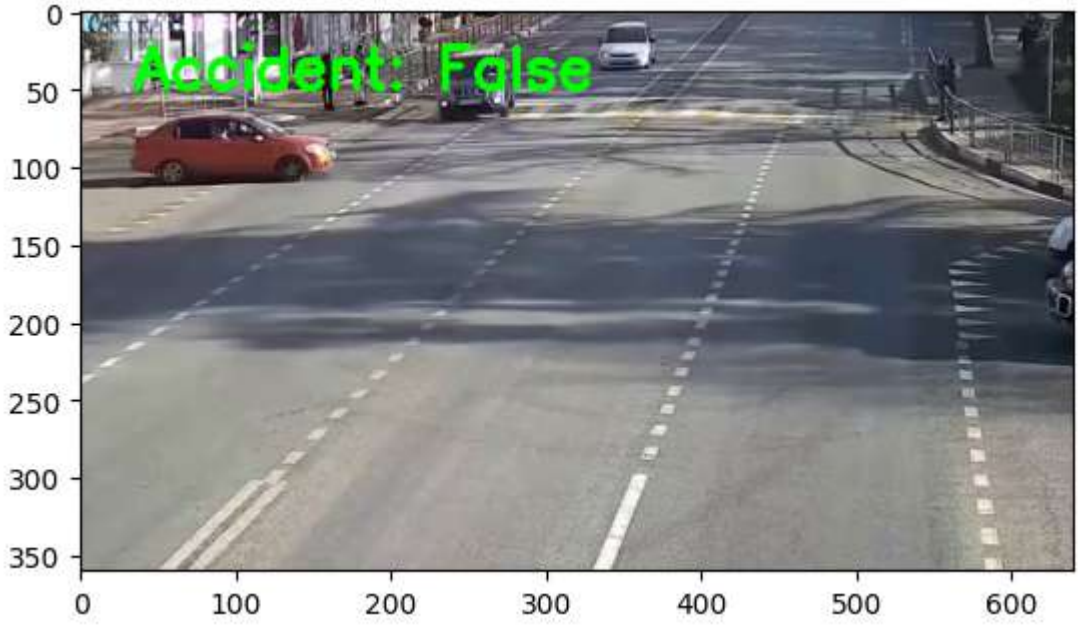

```
1/1 [==============================] - 0s 68ms/step
```



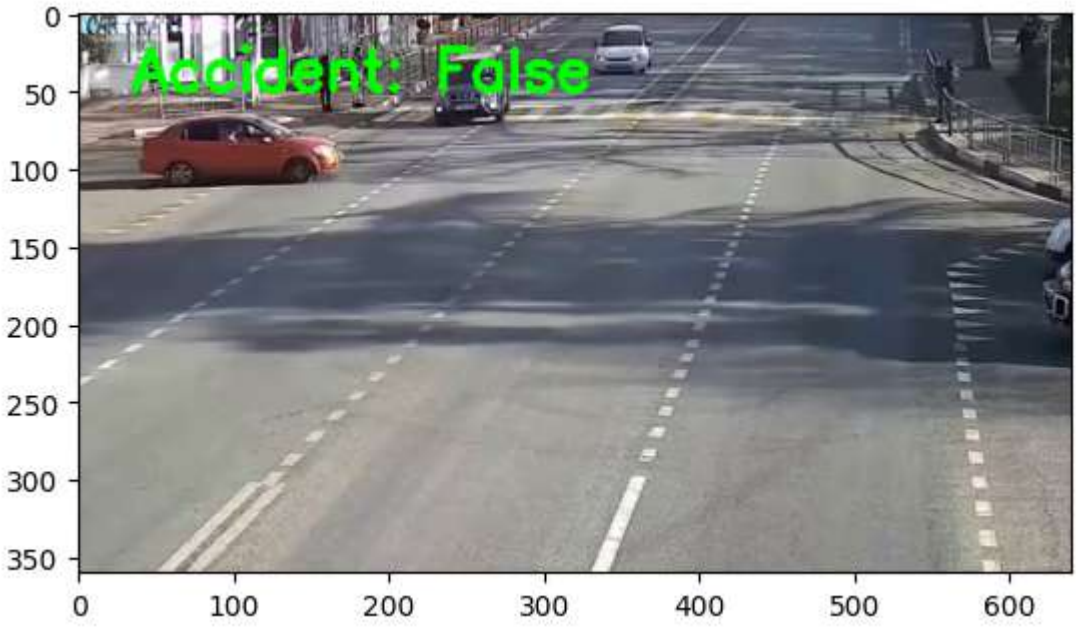

```
1/1 [==============================] - 0s 71ms/step
```



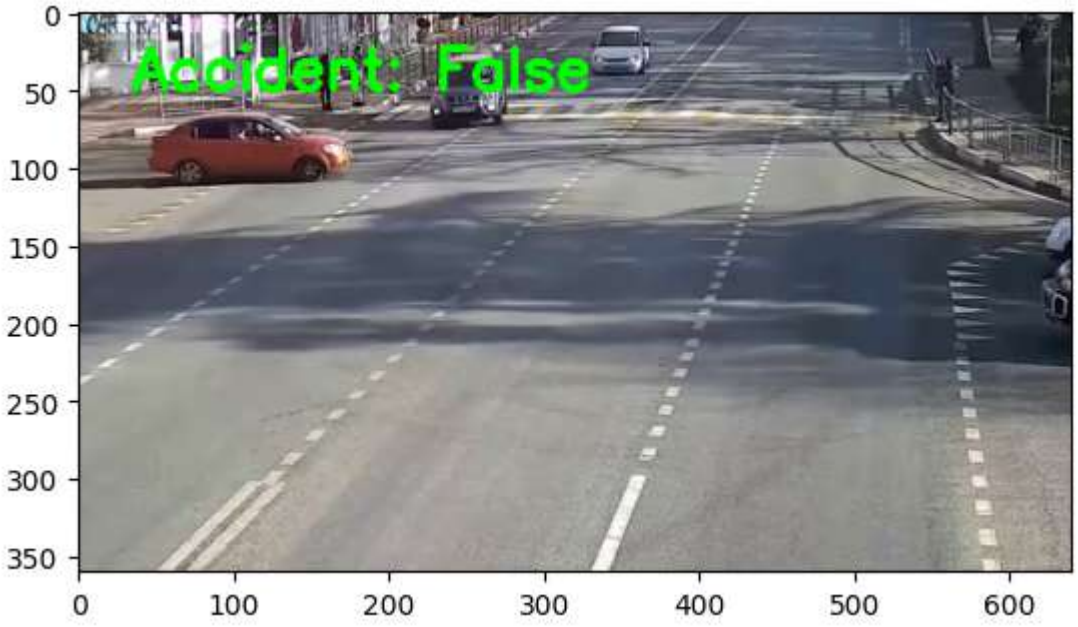

```
1/1 [==============================] - 0s 71ms/step
```



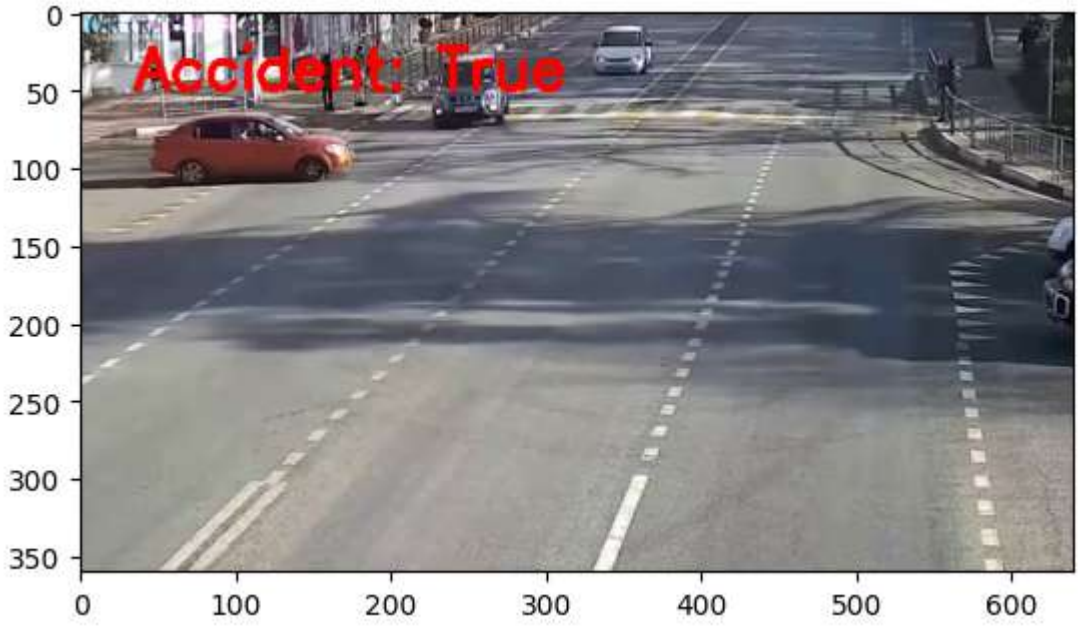
```
1/1 [==============================] - 0s 57ms/step
```



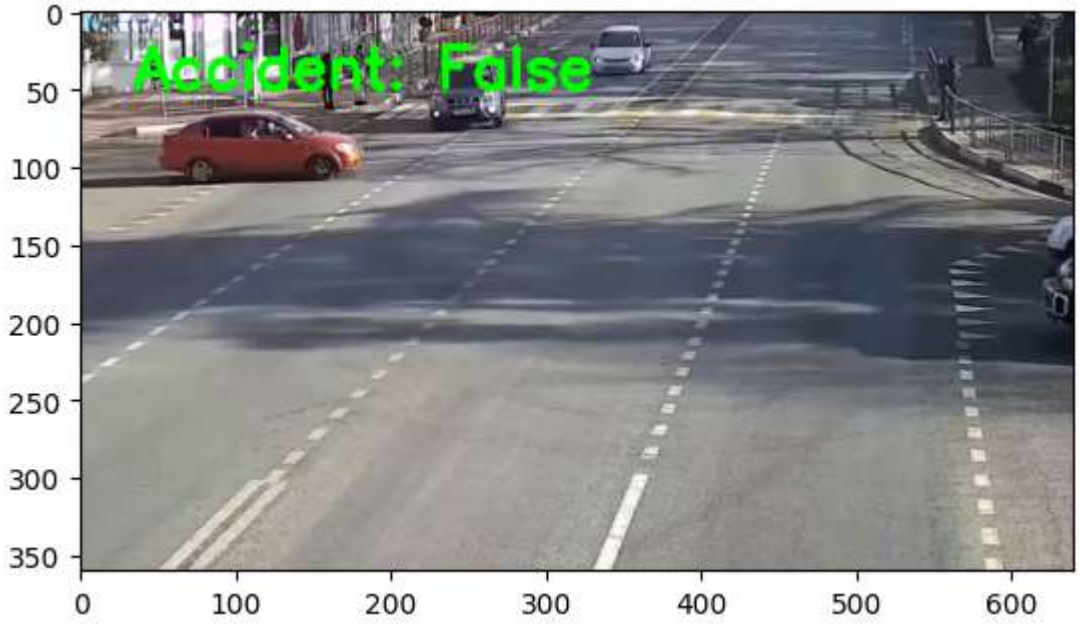

```
1/1 [==============================] - 0s 49ms/step
```



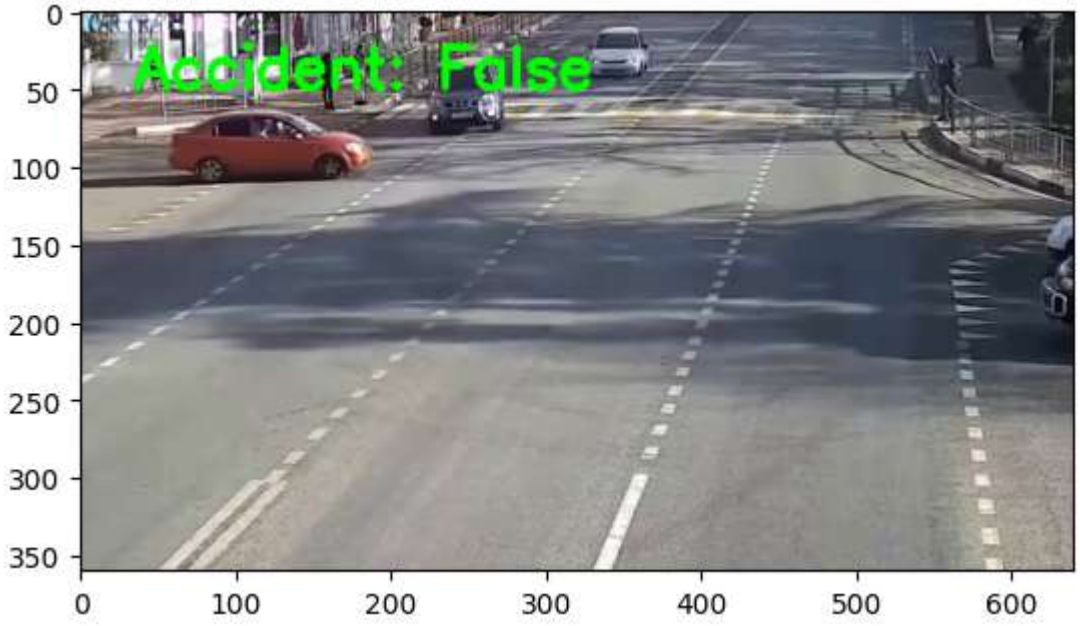

```
1/1 [==============================] - 0s 51ms/step
```



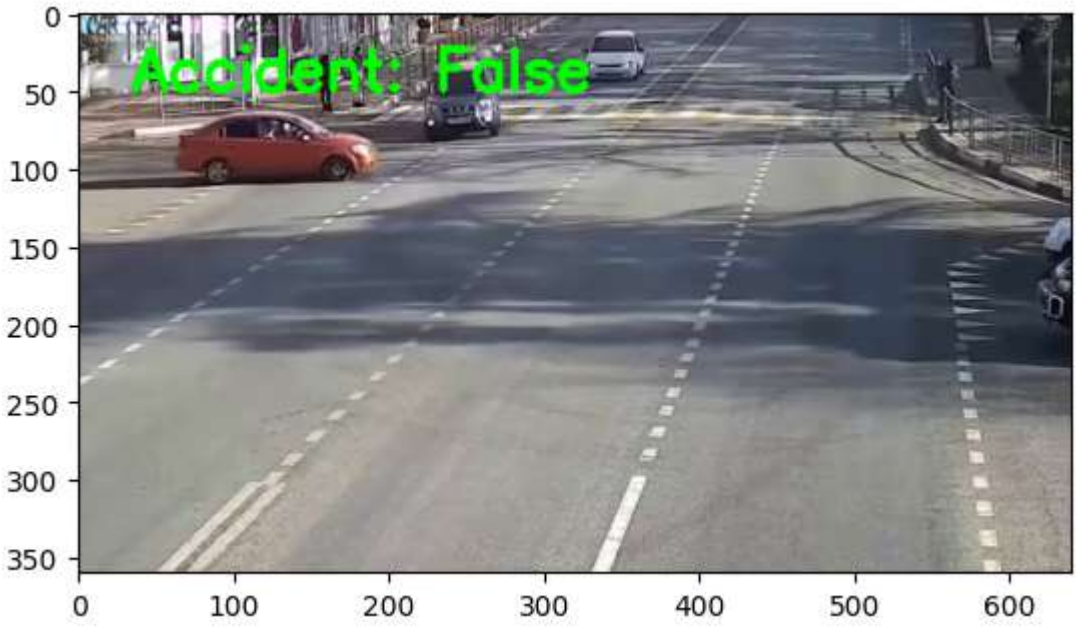

```
1/1 [==============================] - 0s 54ms/step
```



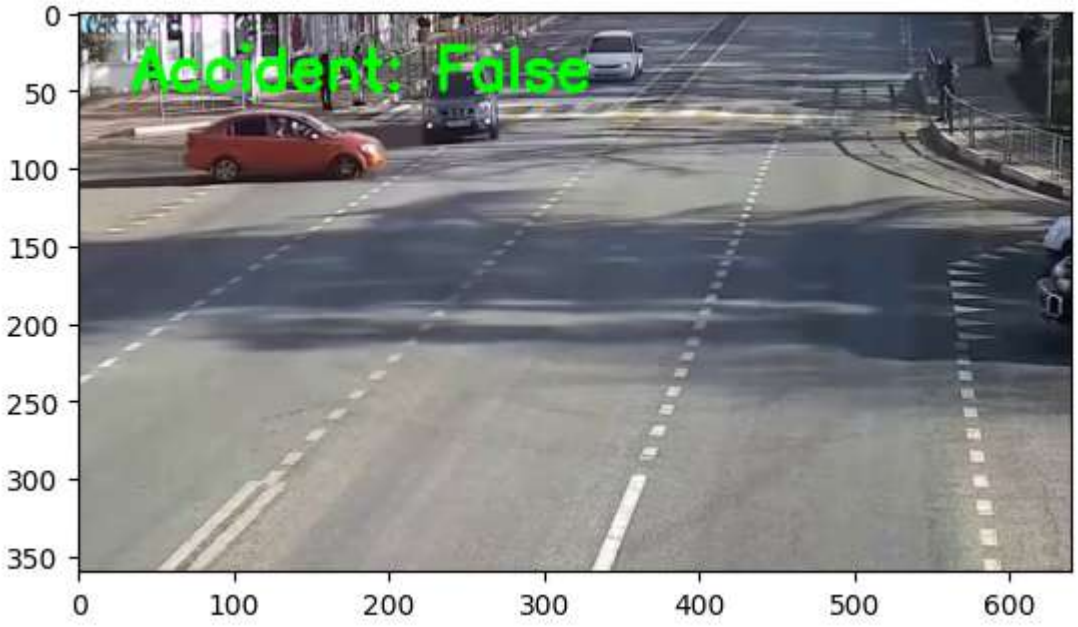

```
1/1 [==============================] - 0s 48ms/step
```



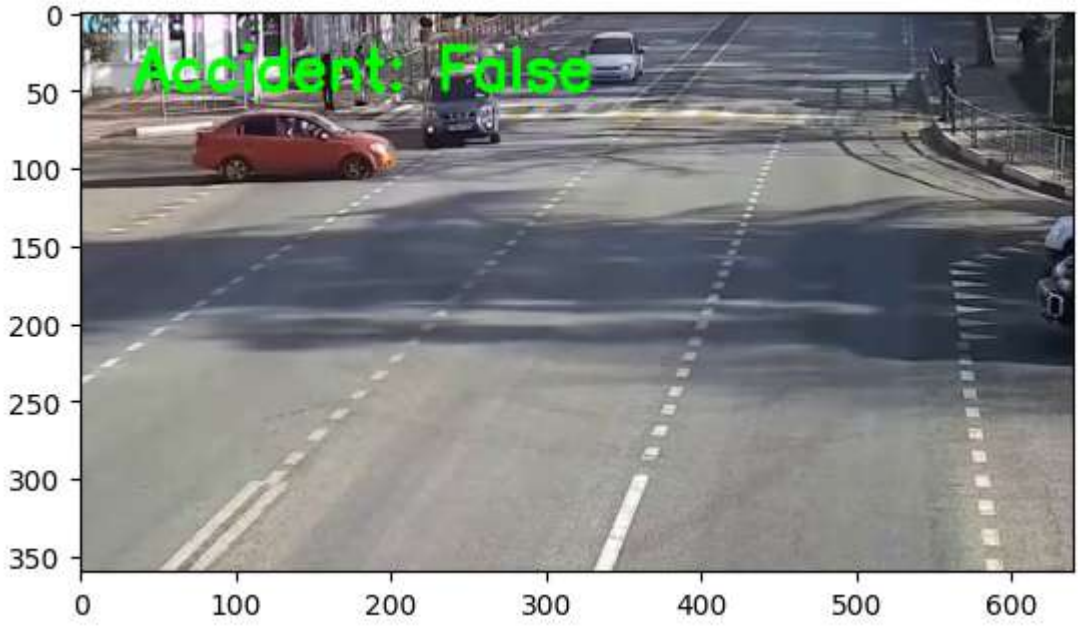
```
1/1 [==============================] - 0s 50ms/step
```



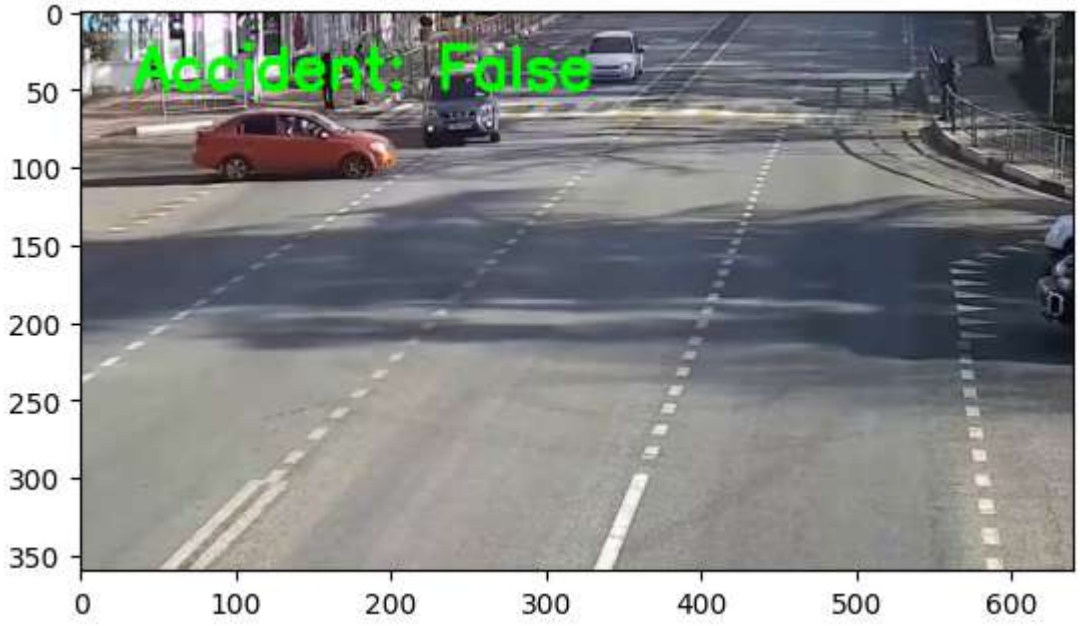

```
1/1 [==============================] - 0s 50ms/step
```



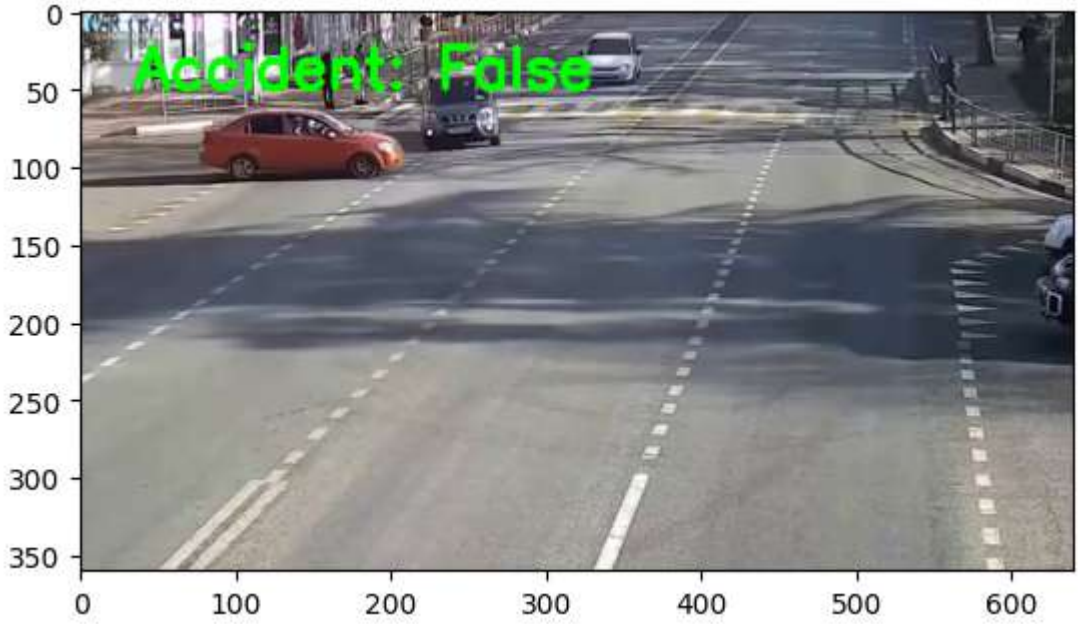

```
1/1 [==============================] - 0s 46ms/step
```



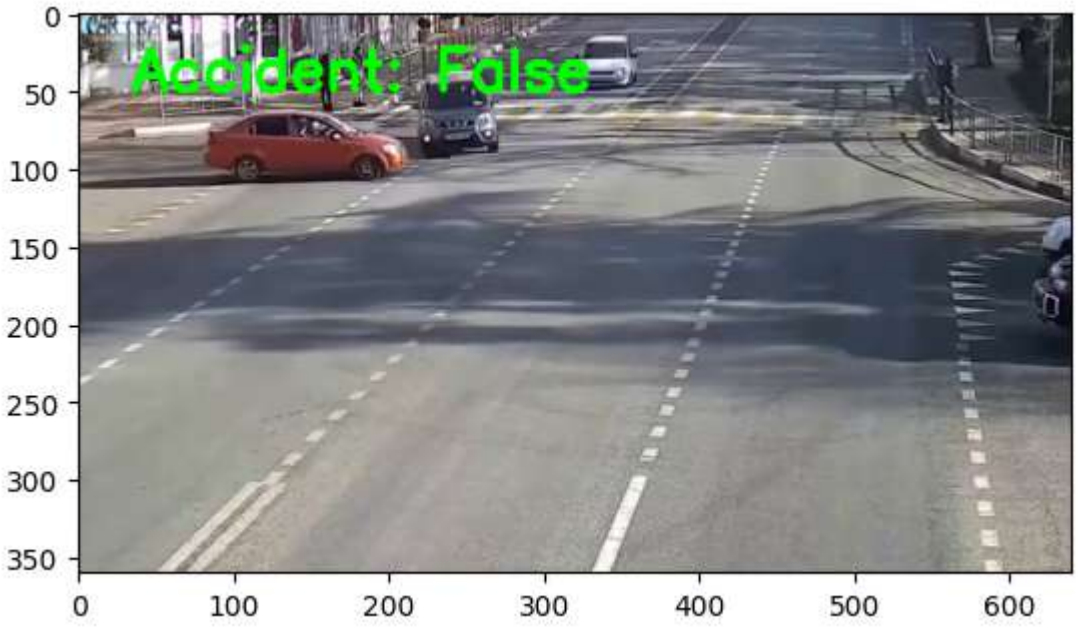

```
1/1 [==============================] - 0s 52ms/step
```



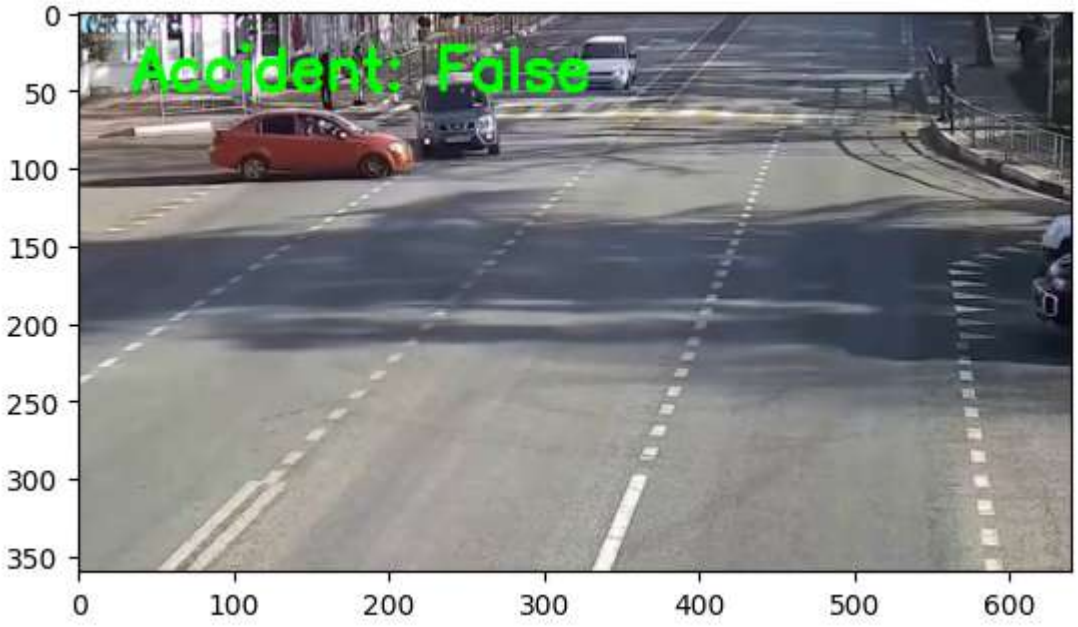

```
1/1 [==============================] - 0s 49ms/step
```



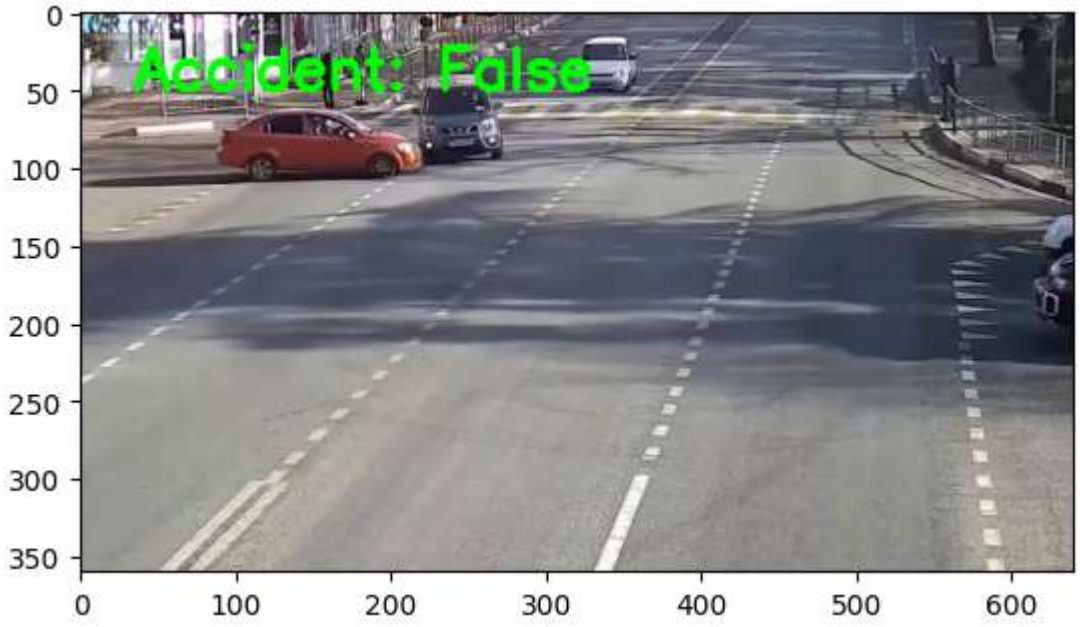
```
1/1 [==============================] - 0s 48ms/step
```



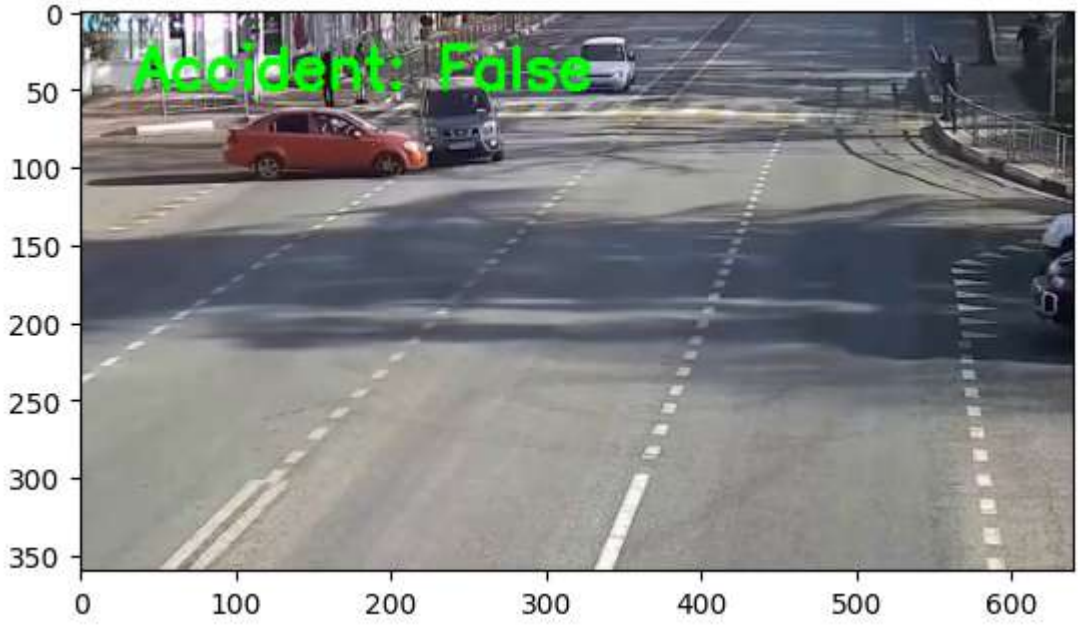

```
1/1 [==============================] - 0s 49ms/step
```



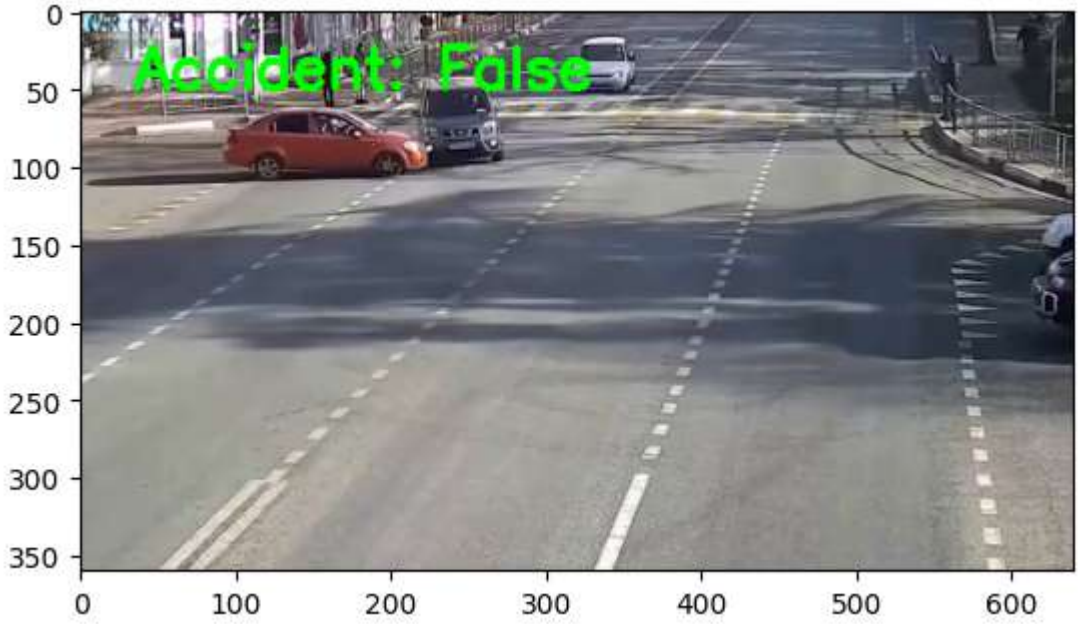

```
1/1 [==============================] - 0s 51ms/step
```



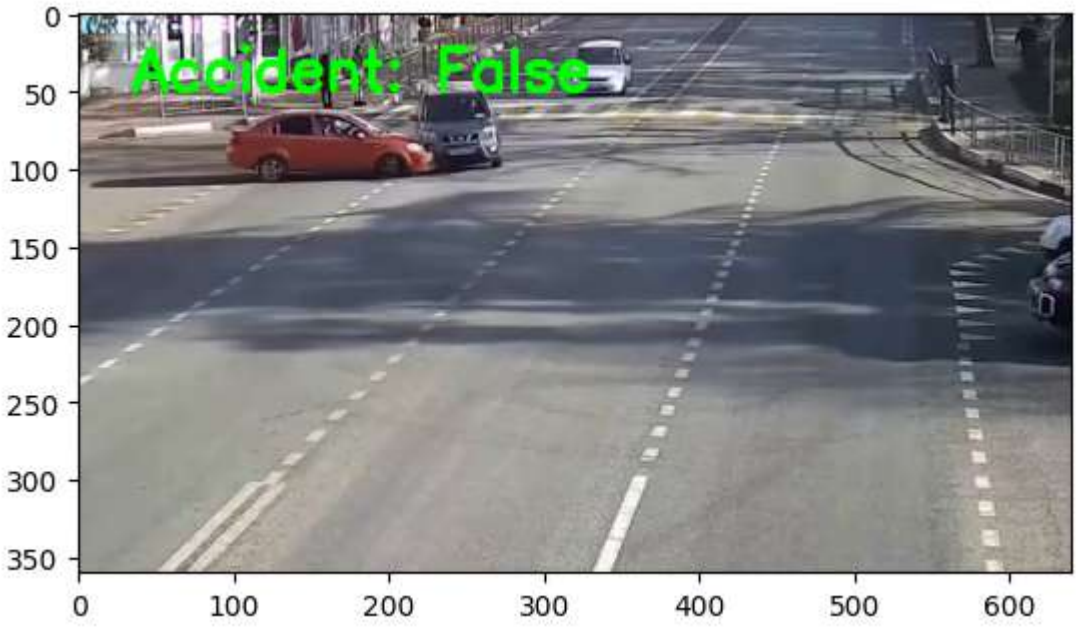

```
1/1 [==============================] - 0s 51ms/step
```



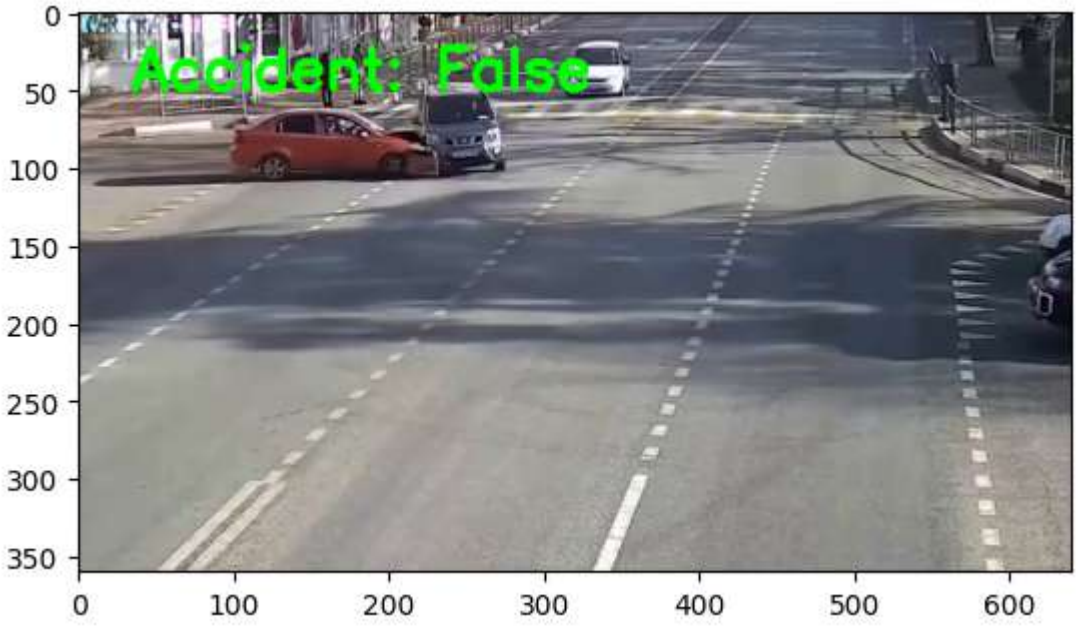

```
1/1 [==============================] - 0s 53ms/step
```



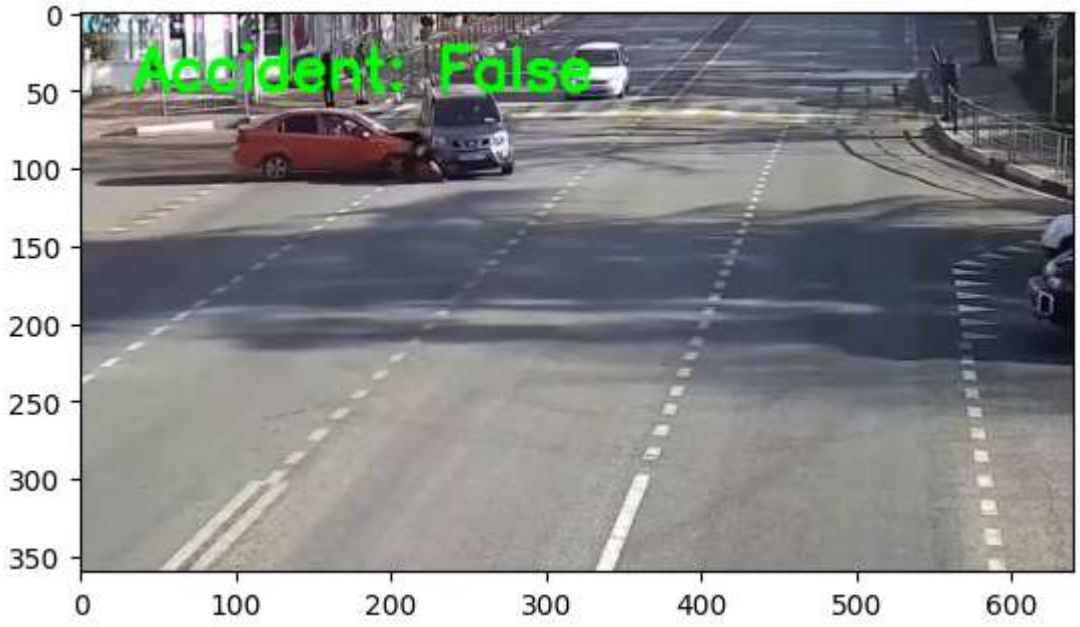
```
1/1 [==============================] - 0s 53ms/step
```



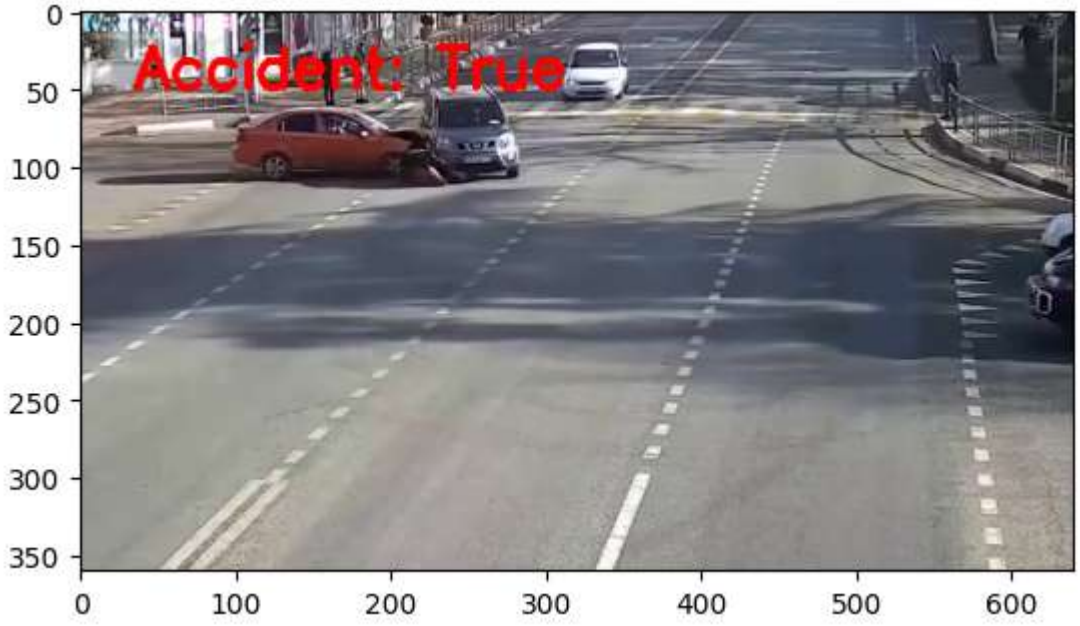

```
1/1 [==============================] - 0s 48ms/step
```



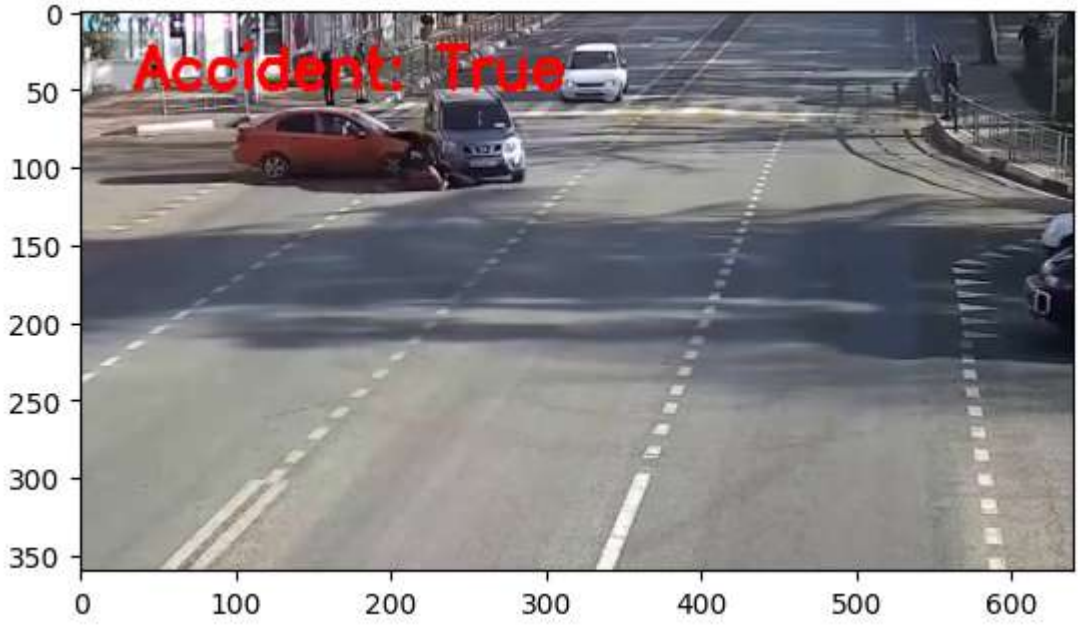

```
1/1 [==============================] - 0s 69ms/step
```



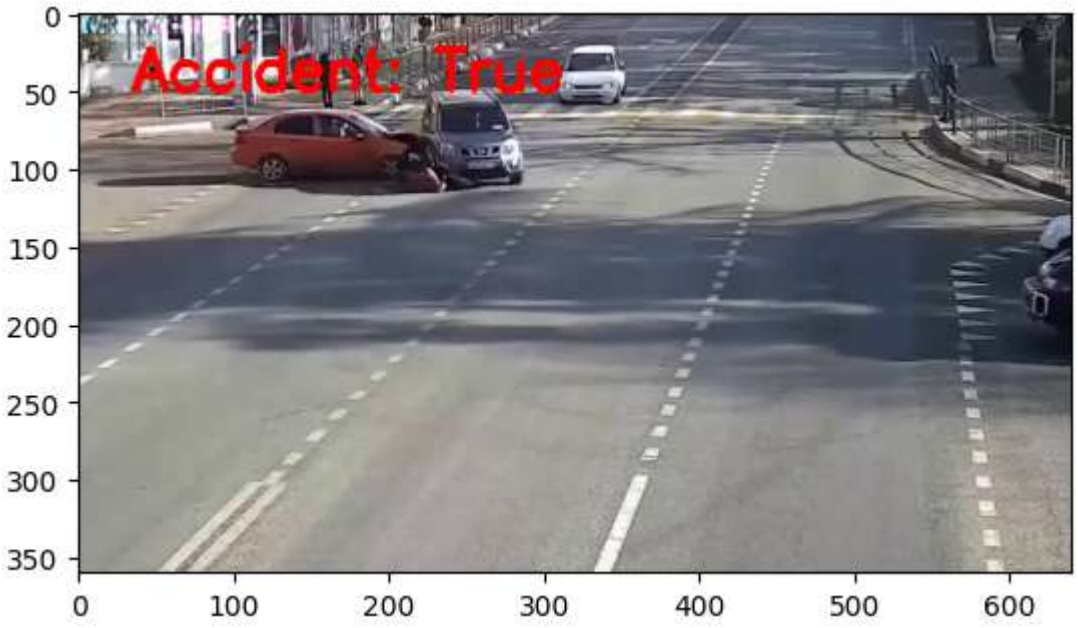

```
1/1 [==============================] - 0s 66ms/step
```



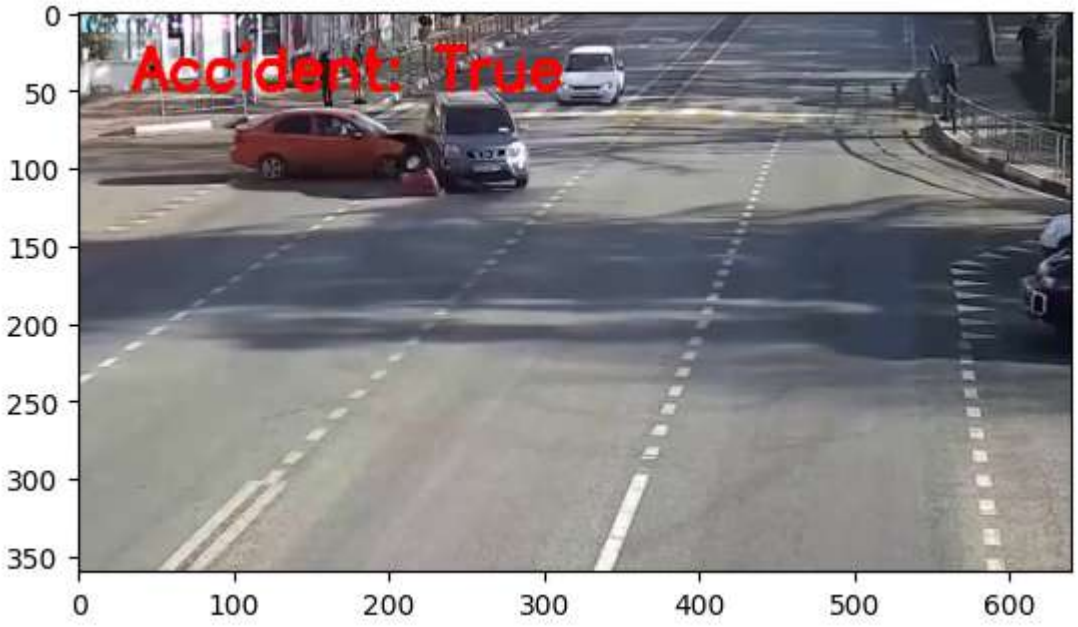

```
1/1 [==============================] - 0s 51ms/step
```



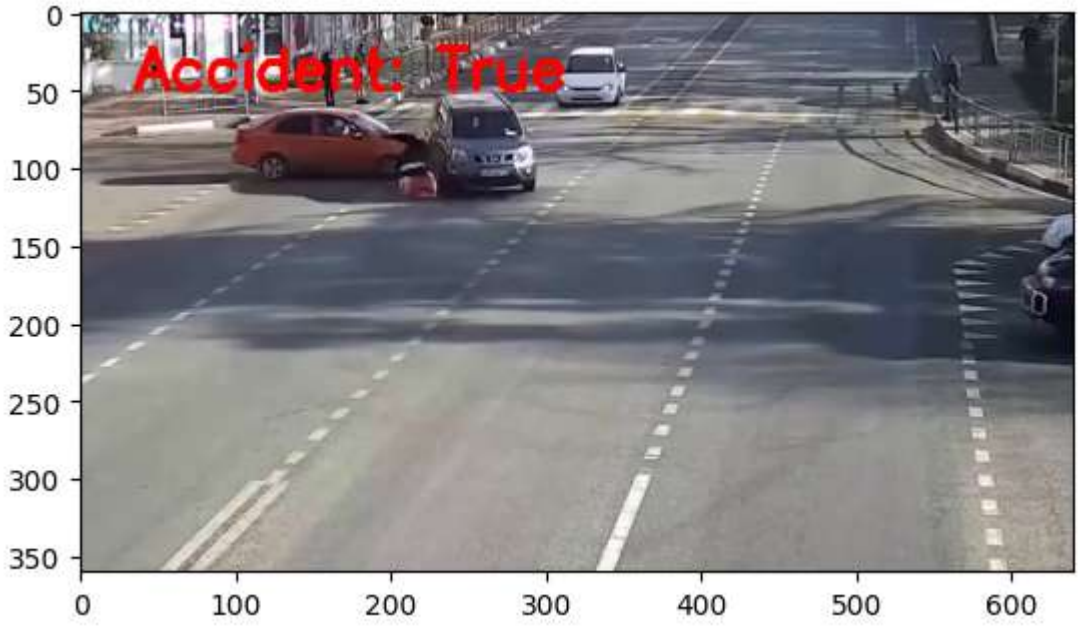
```
1/1 [==============================] - 0s 79ms/step
```



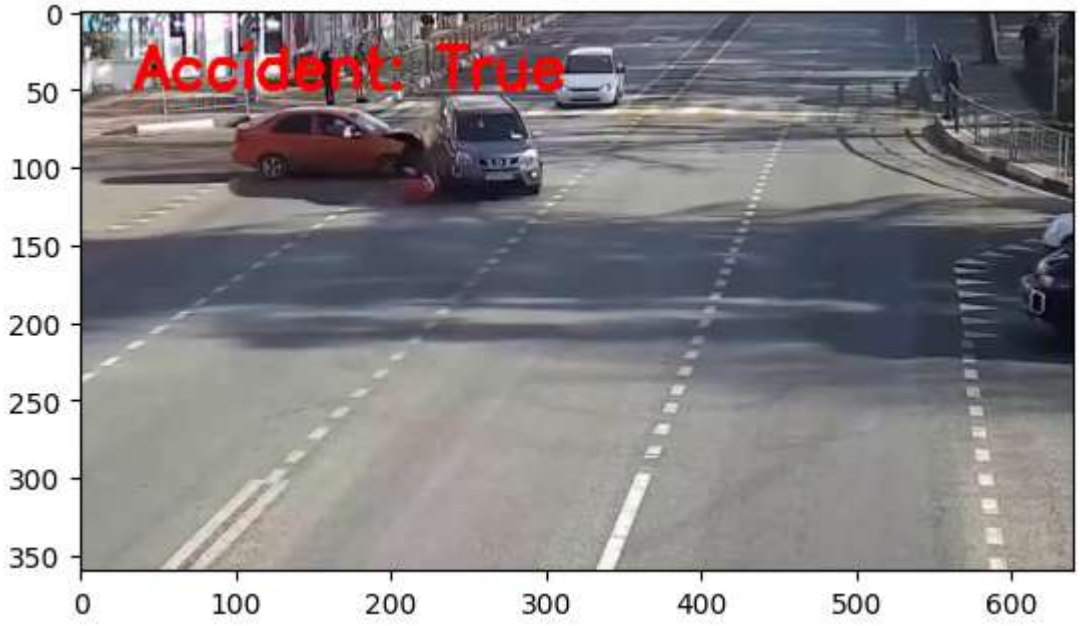

```
1/1 [==============================] - 0s 89ms/step
```



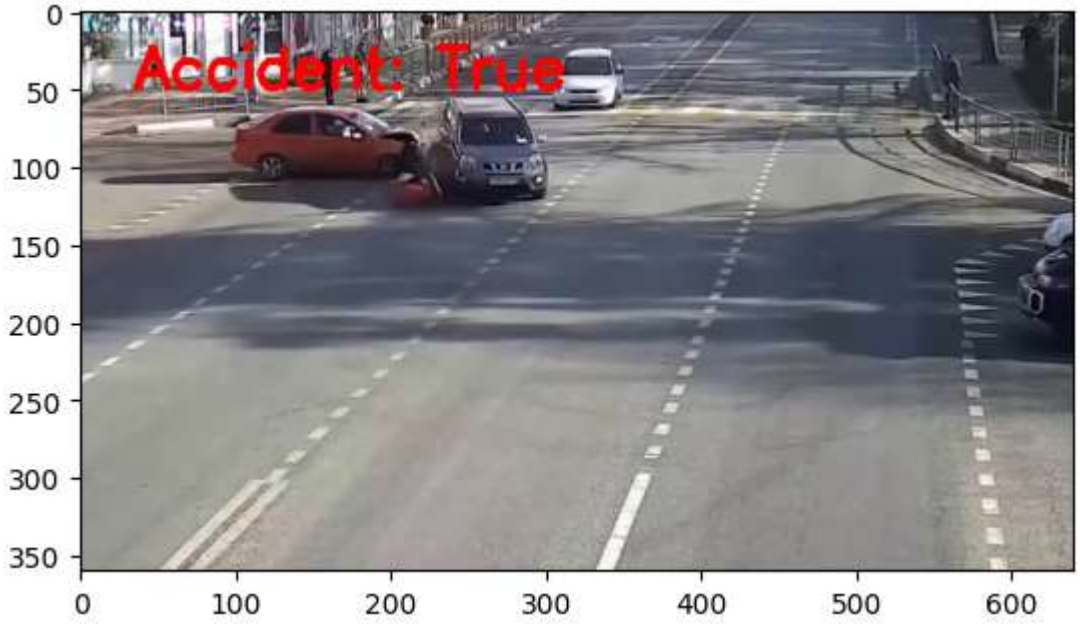

```
1/1 [==============================] - 0s 50ms/step
```



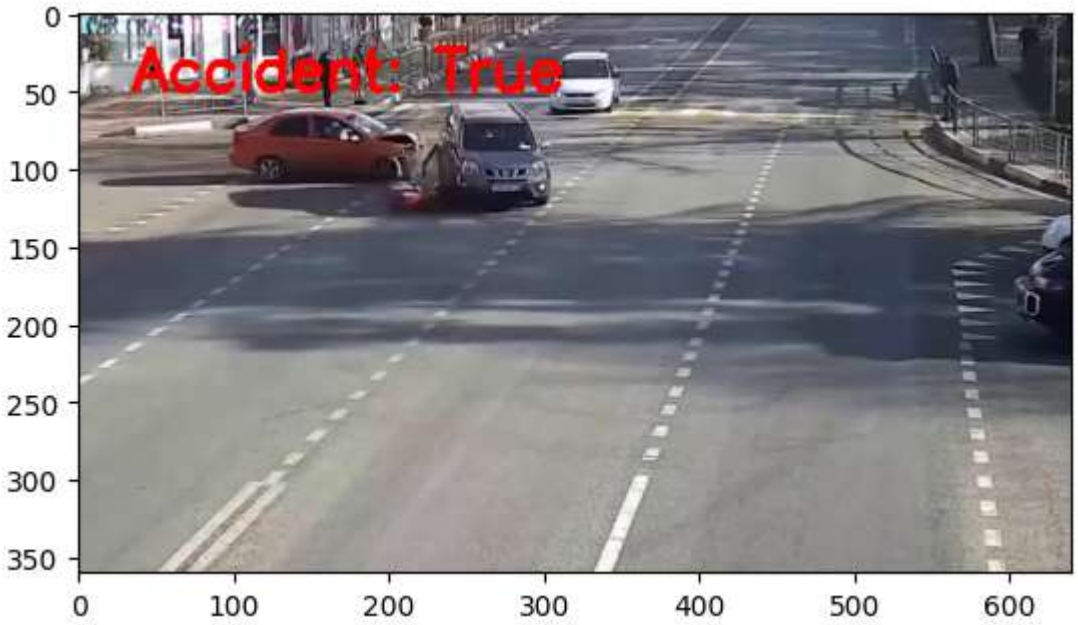

```
1/1 [==============================] - 0s 72ms/step
```



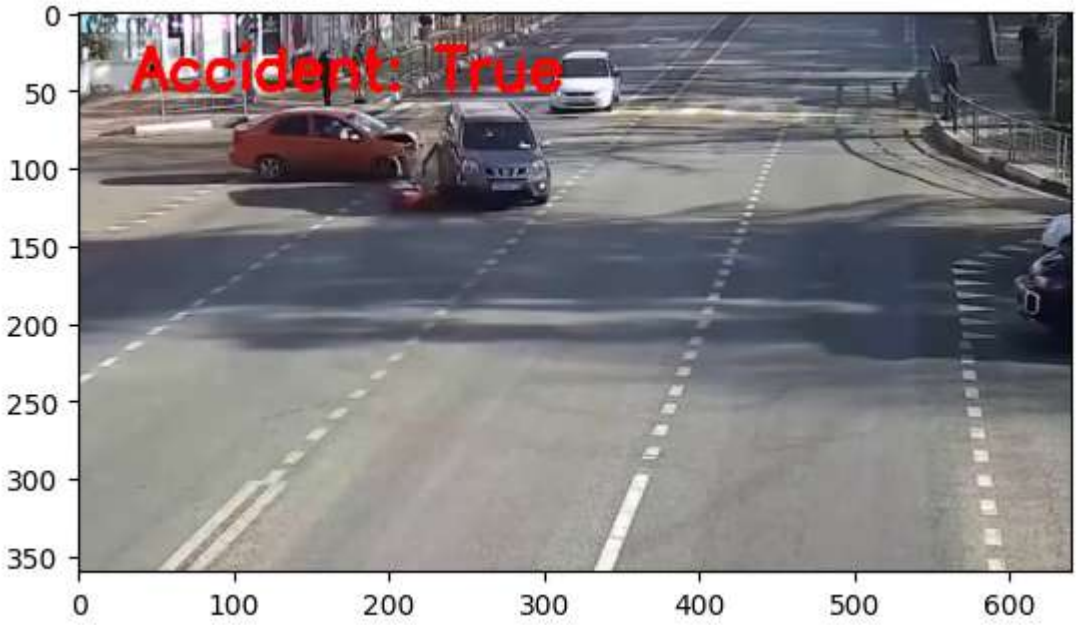

```
1/1 [==============================] - 0s 71ms/step
```



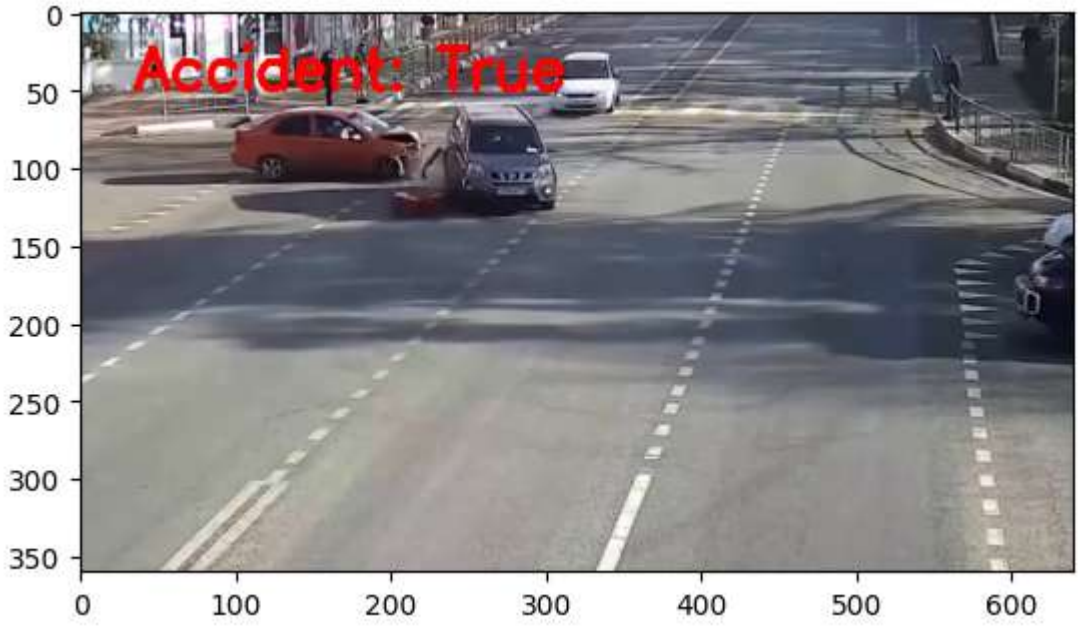
```
1/1 [==============================] - 0s 72ms/step
```



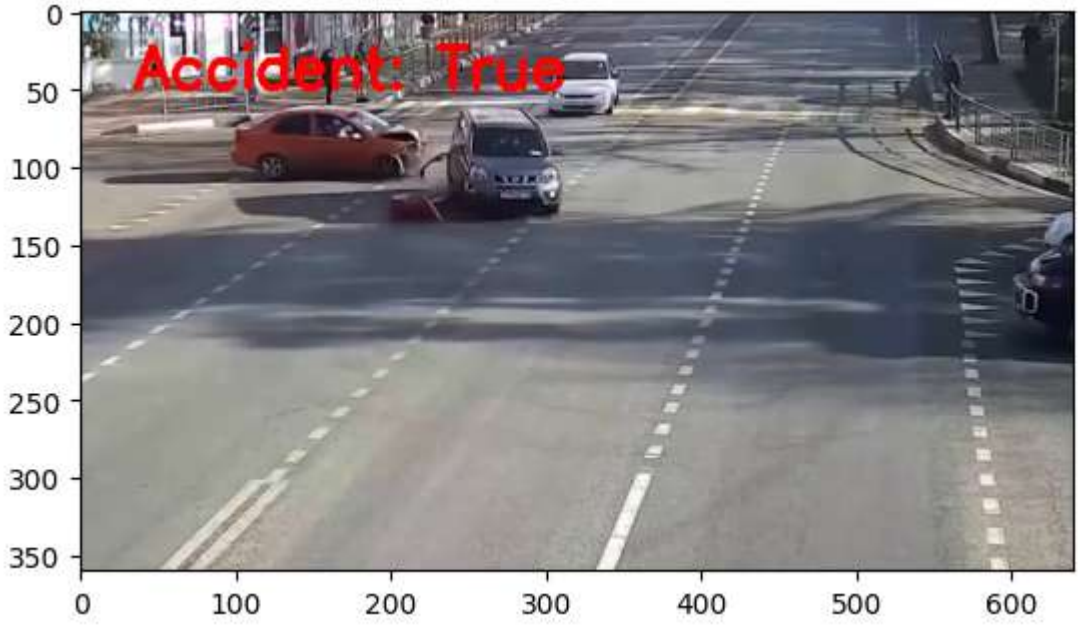

```
1/1 [==============================] - 0s 73ms/step
```



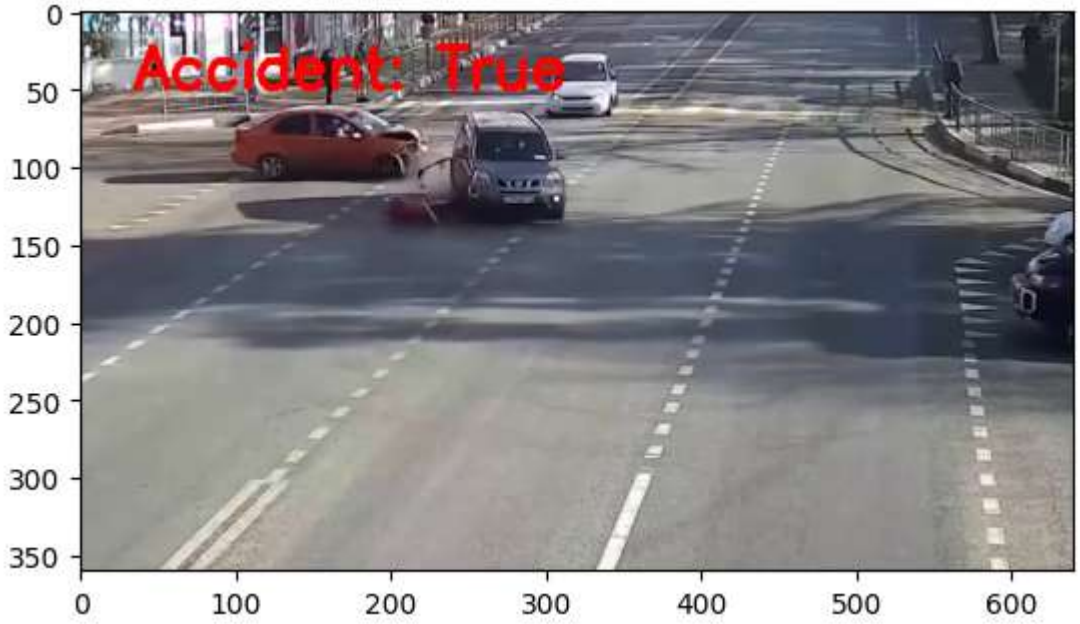

```
1/1 [==============================] - 0s 94ms/step
```



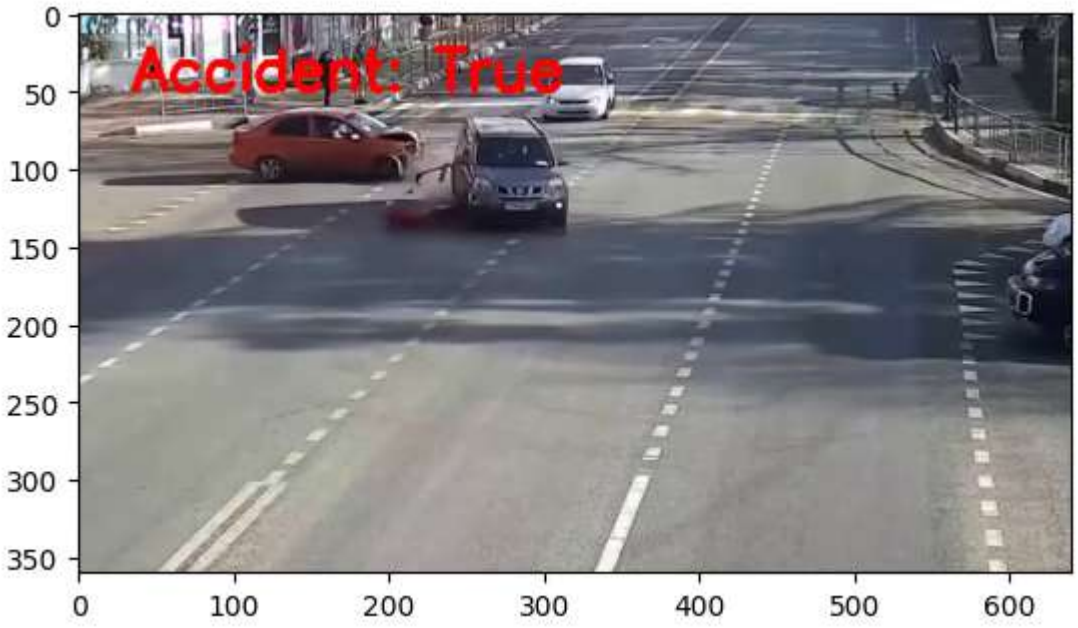

```
1/1 [==============================] - 0s 87ms/step
```



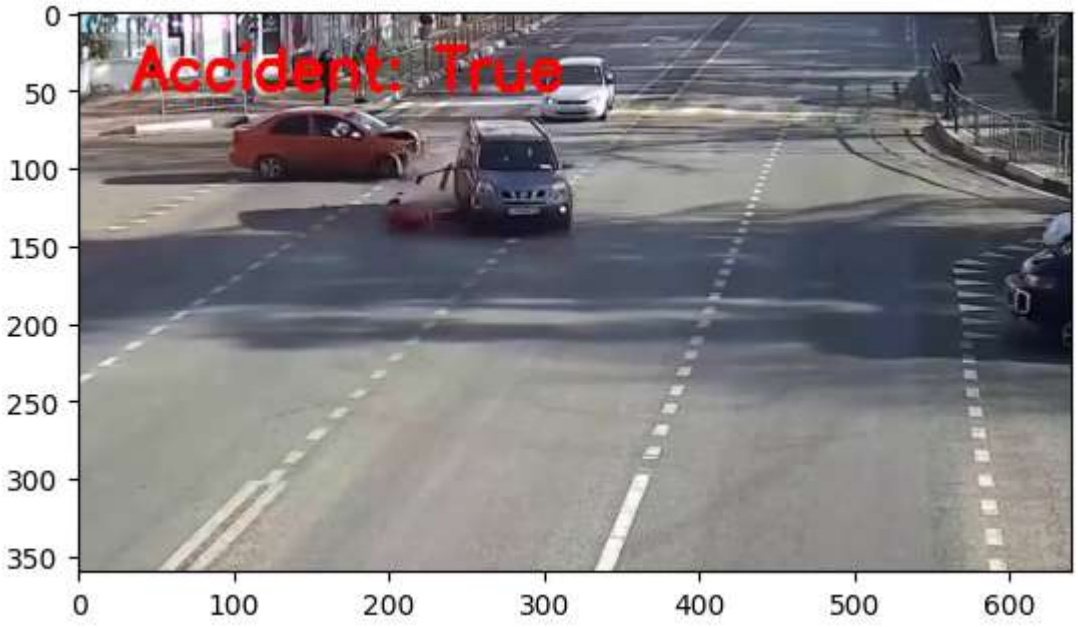

```
1/1 [==============================] - 0s 55ms/step
```



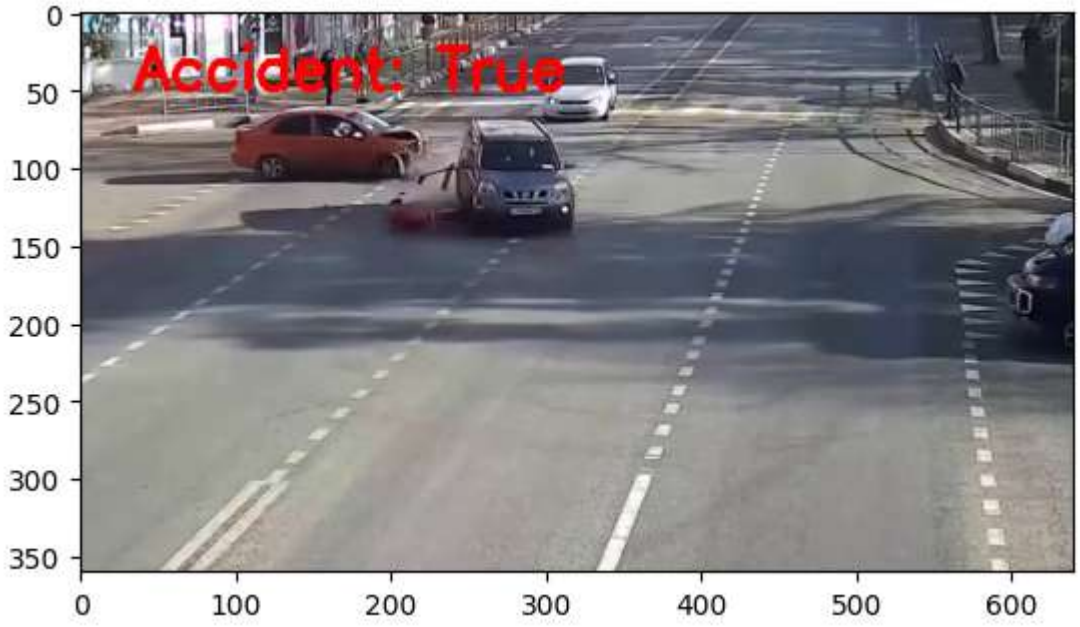
```
1/1 [==============================] - 0s 50ms/step
```



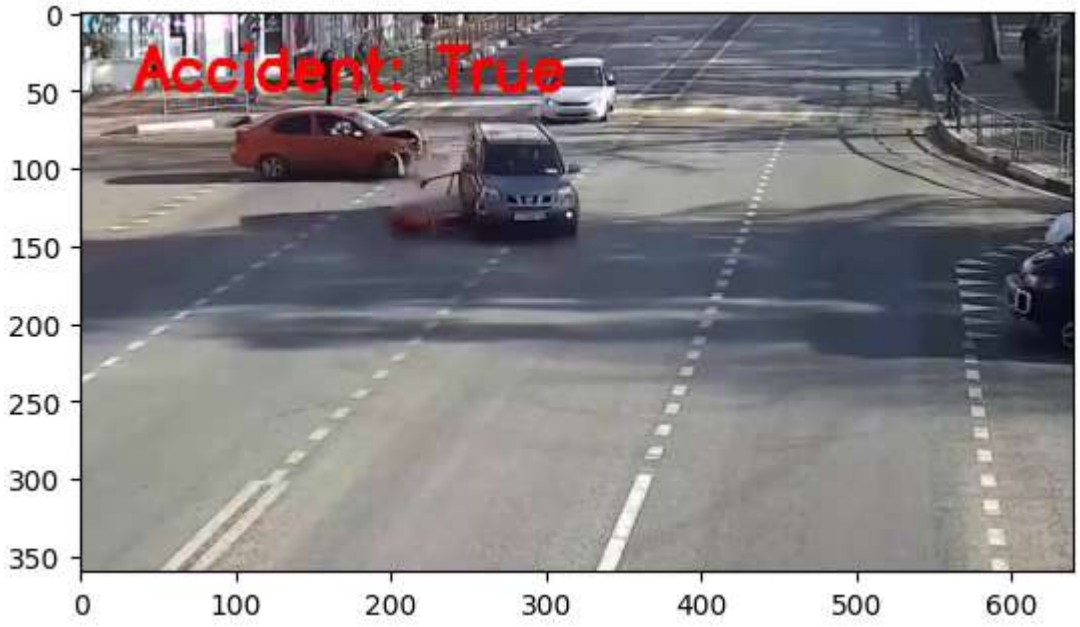

```
1/1 [==============================] - 0s 52ms/step
```



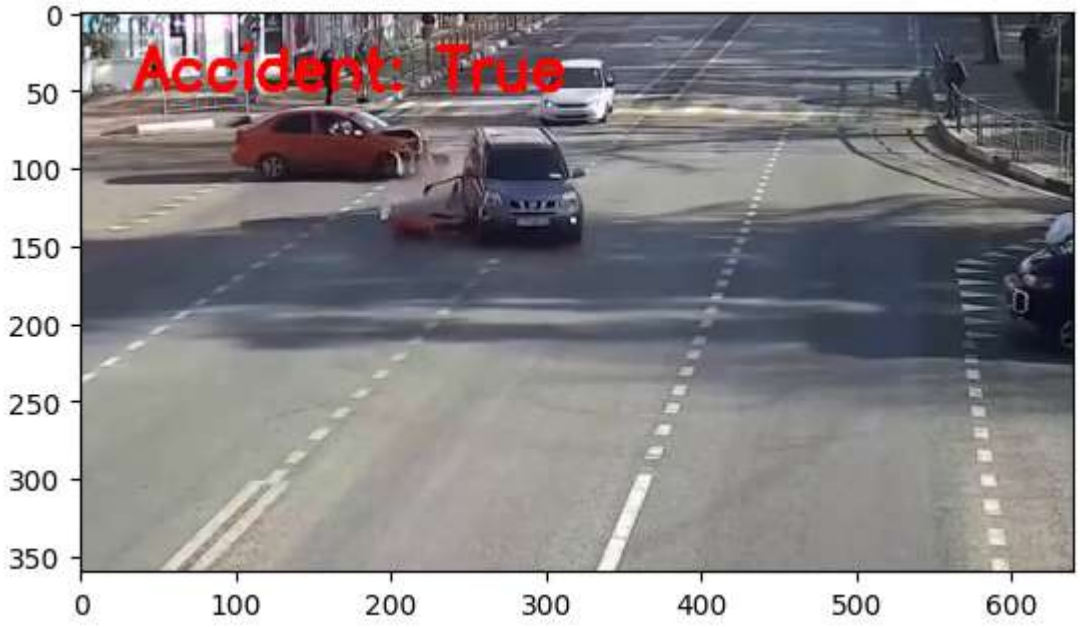

```
1/1 [==============================] - 0s 58ms/step
```



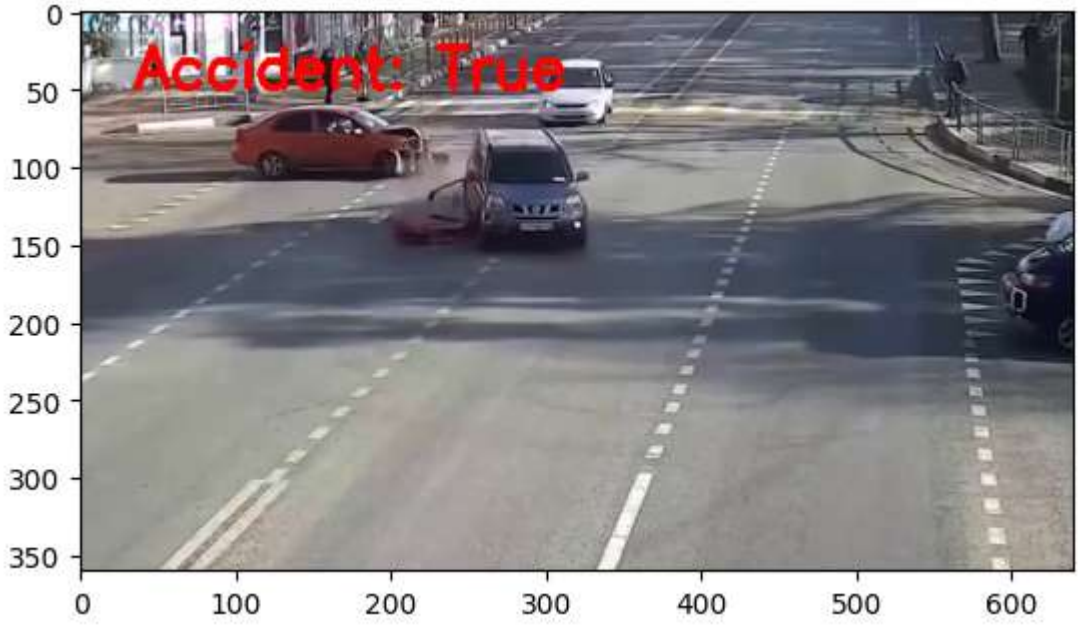

```
Notification has been sent on Telegram
1/1 [==============================] - 0s 52ms/step
```



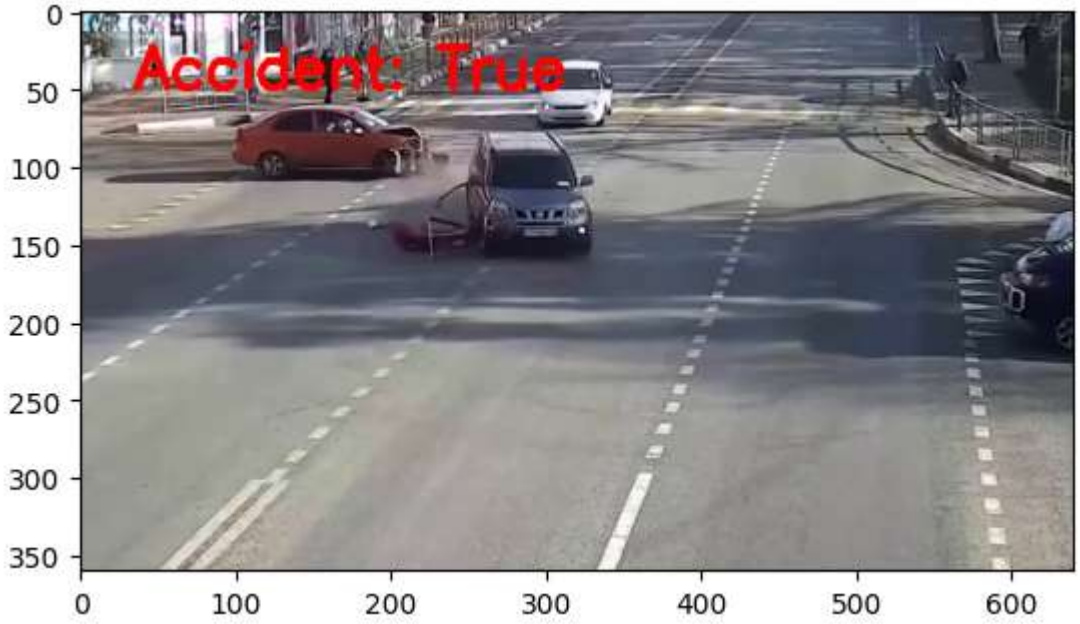

```
1/1 [==============================] - 0s 51ms/step
```



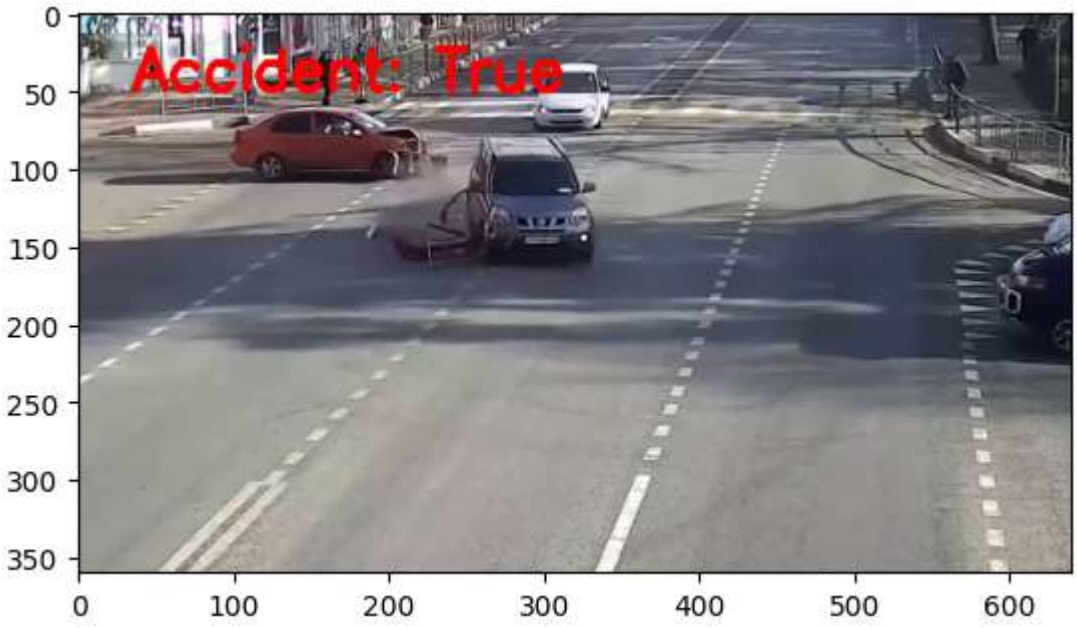

```
1/1 [==============================] - 0s 59ms/step
```



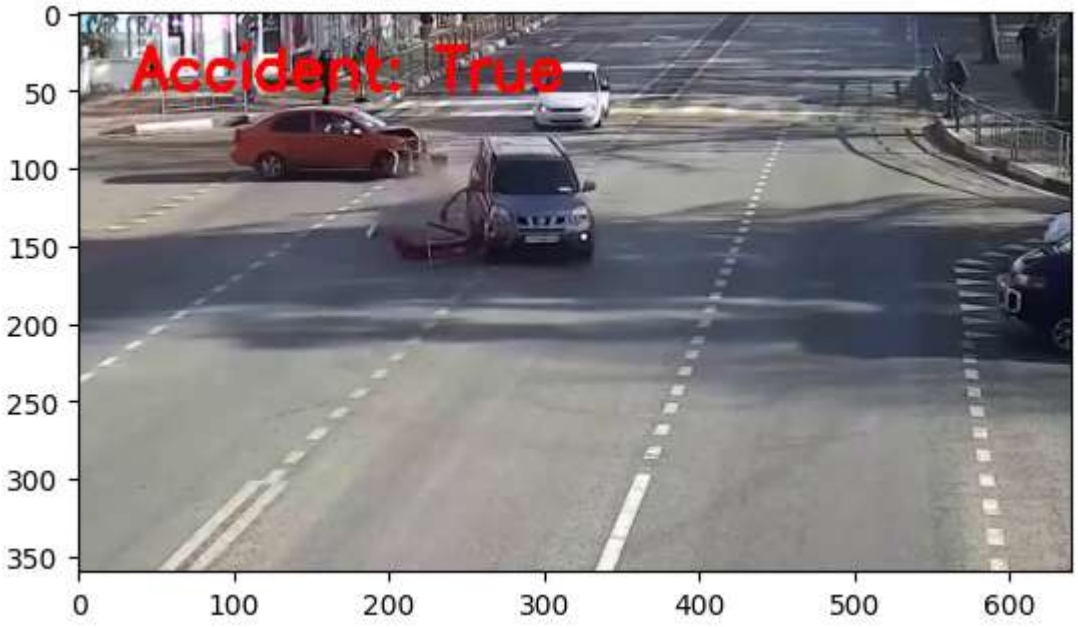

```
1/1 [==============================] - 0s 55ms/step
```



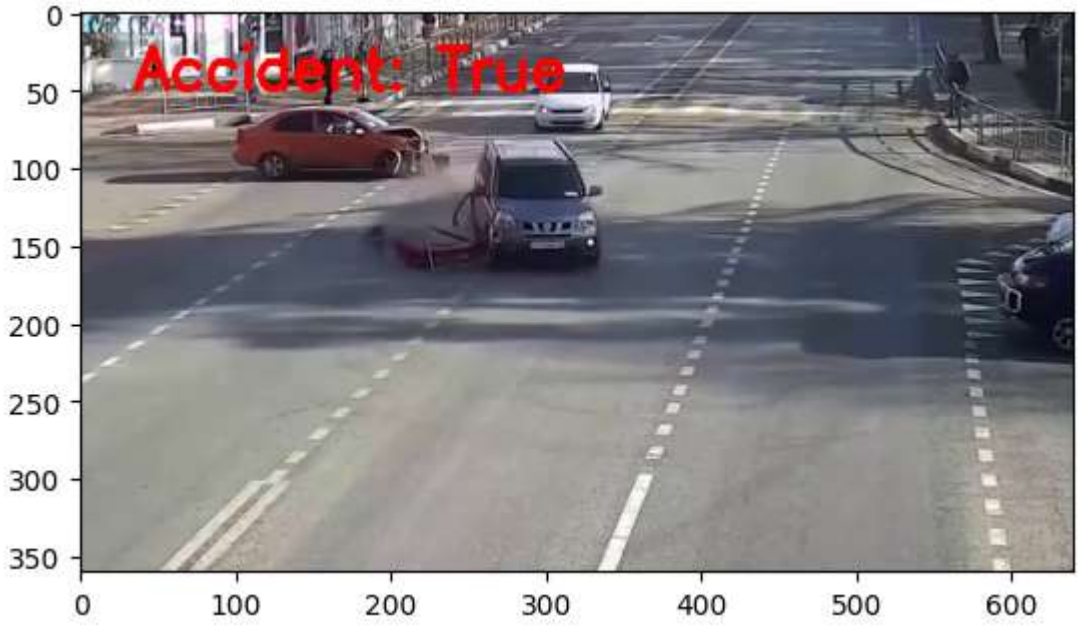
```
1/1 [==============================] - 0s 72ms/step
```



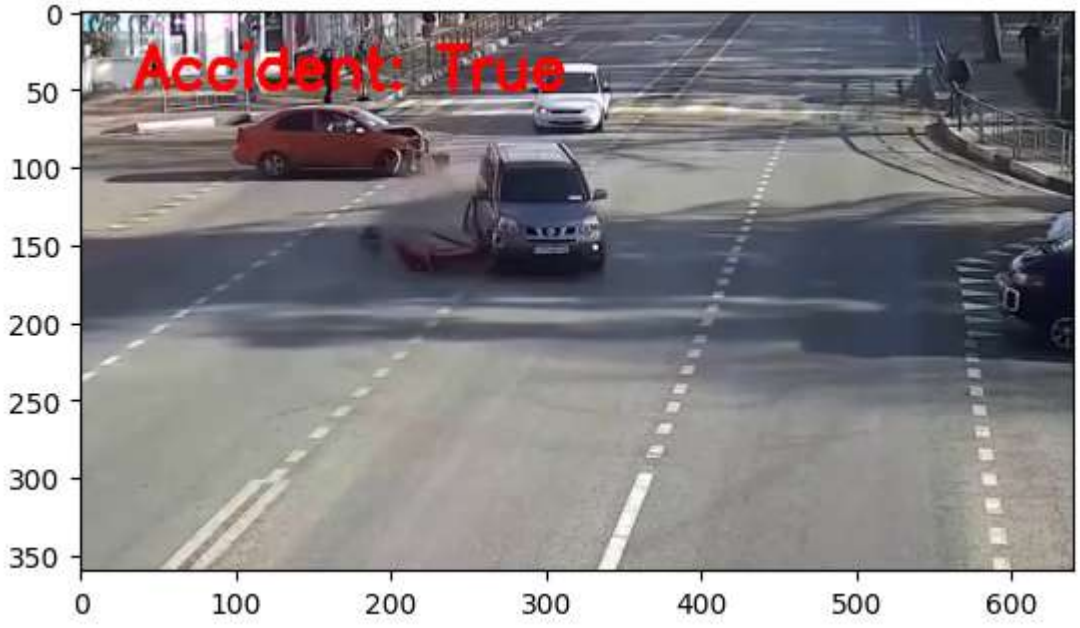

```
1/1 [==============================] - 0s 100ms/step
```



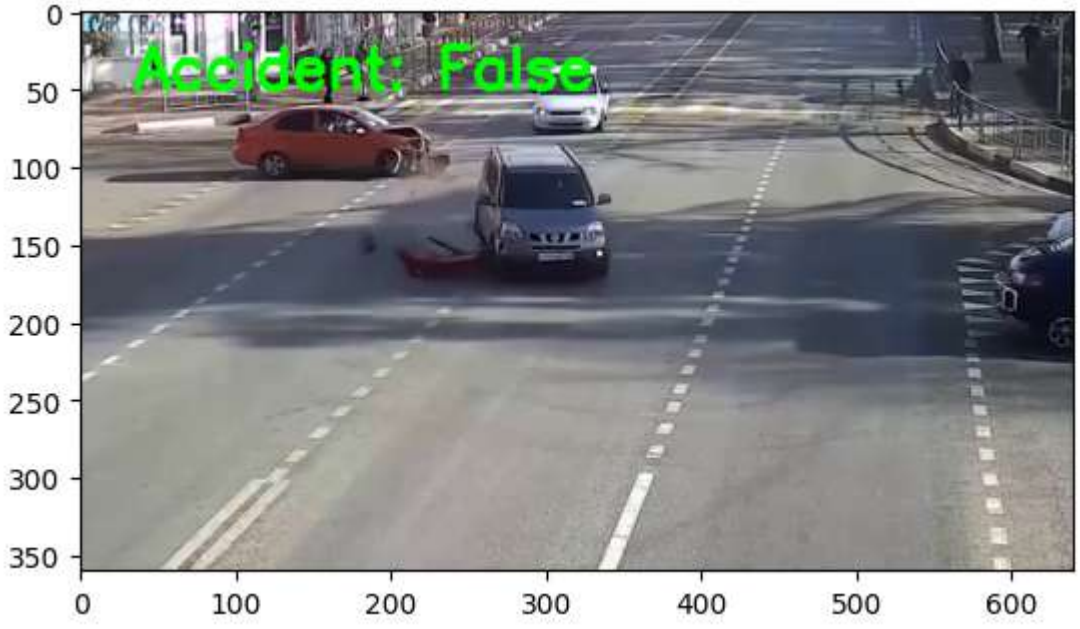

```
1/1 [==============================] - 0s 70ms/step
```



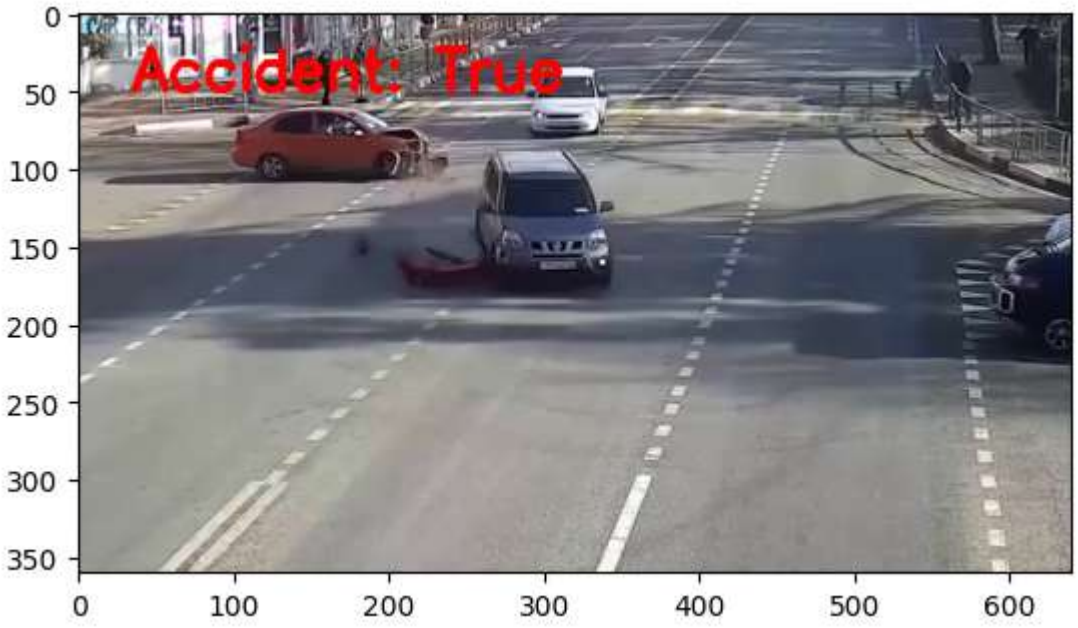

```
1/1 [==============================] - 0s 82ms/step
```



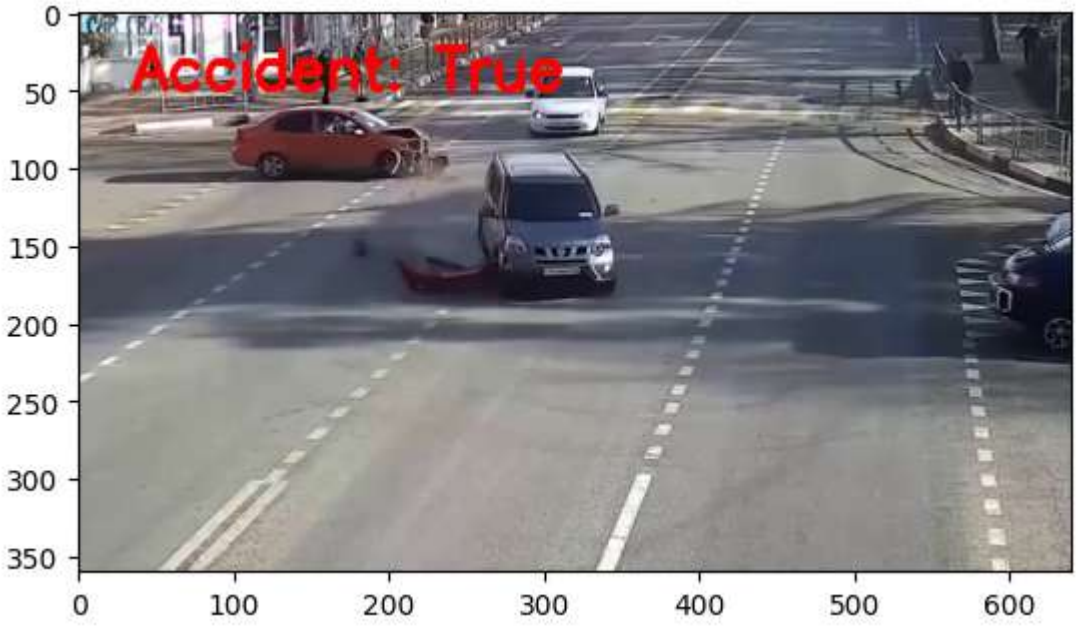

```
1/1 [==============================] - 0s 82ms/step
```



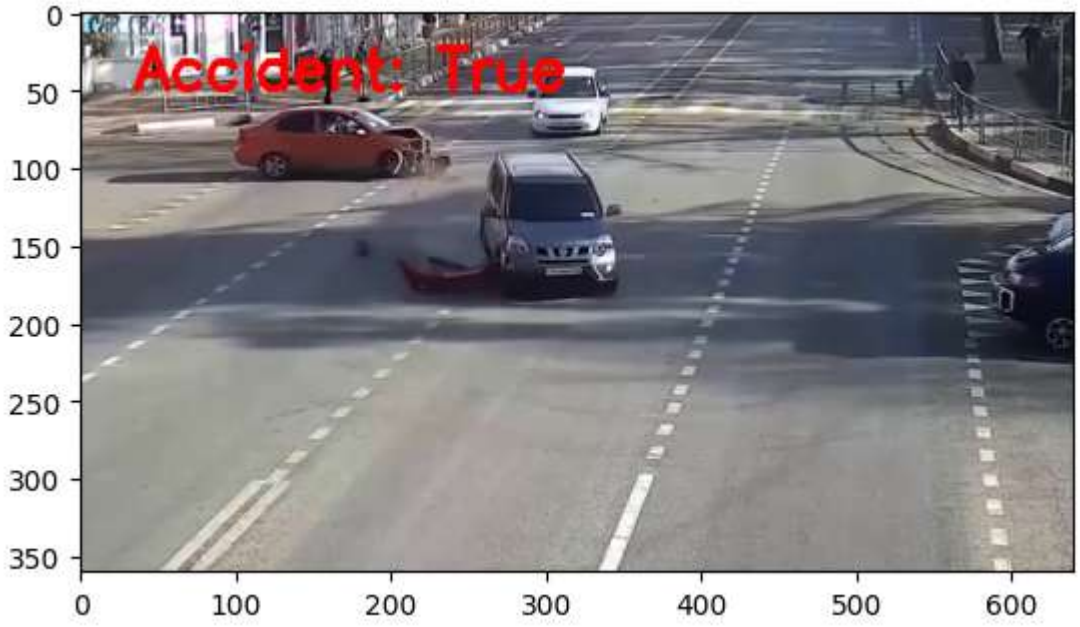
```
1/1 [==============================] - 0s 55ms/step
```



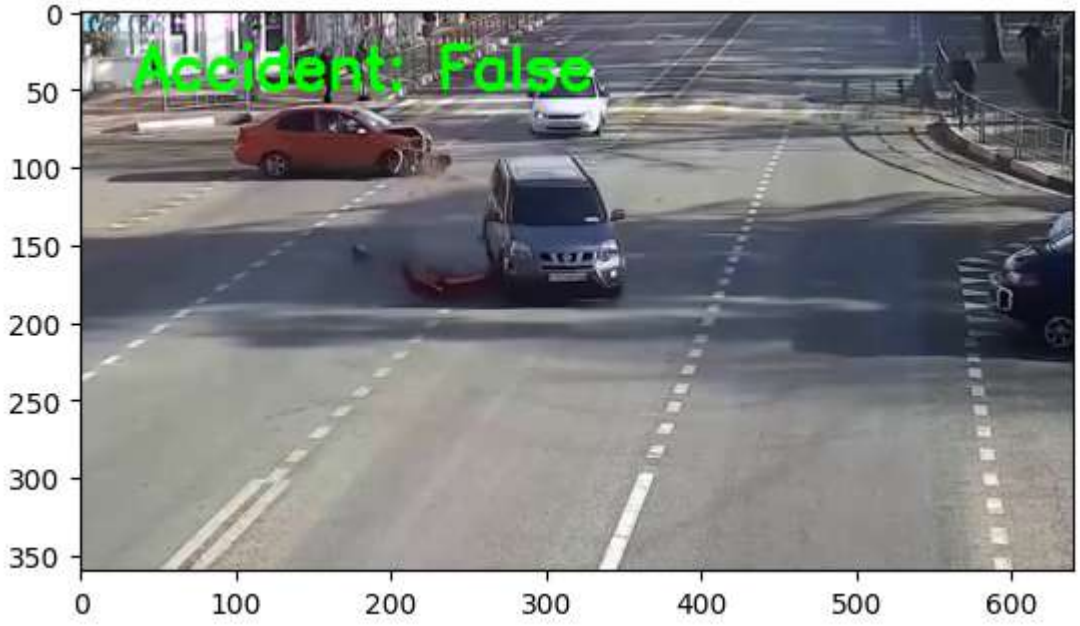

```
1/1 [==============================] - 0s 47ms/step
```



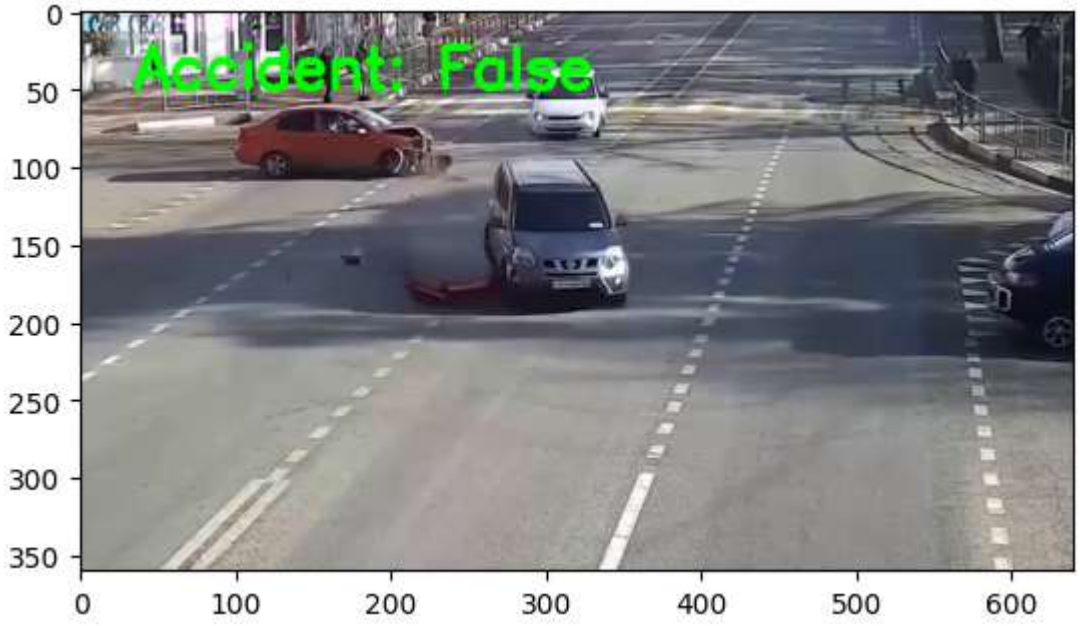

```
1/1 [==============================] - 0s 47ms/step
```



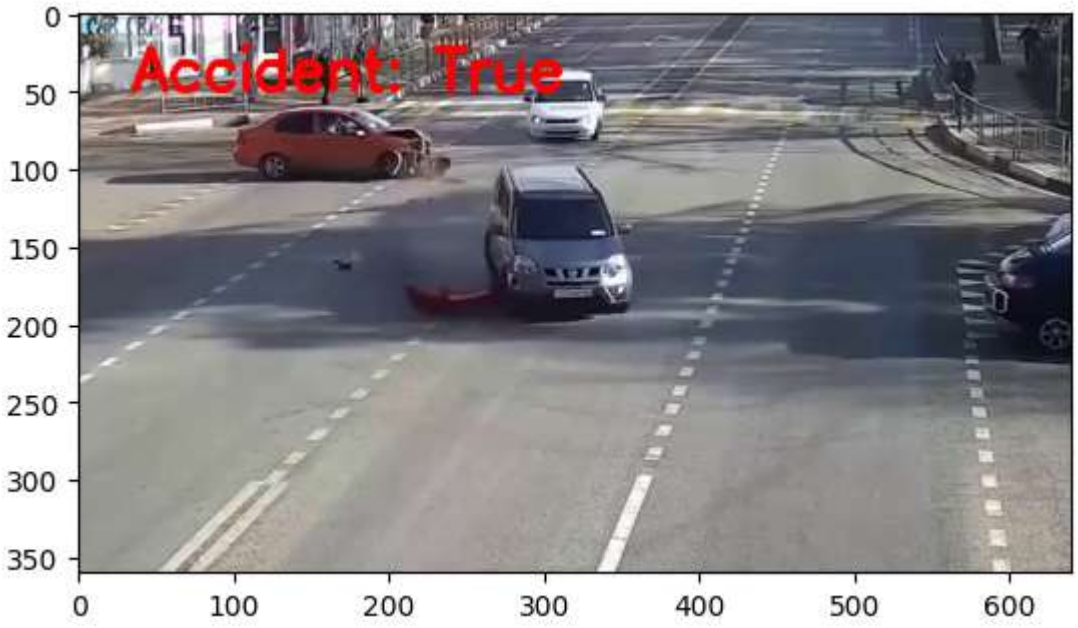

```
1/1 [==============================] - 0s 49ms/step
```



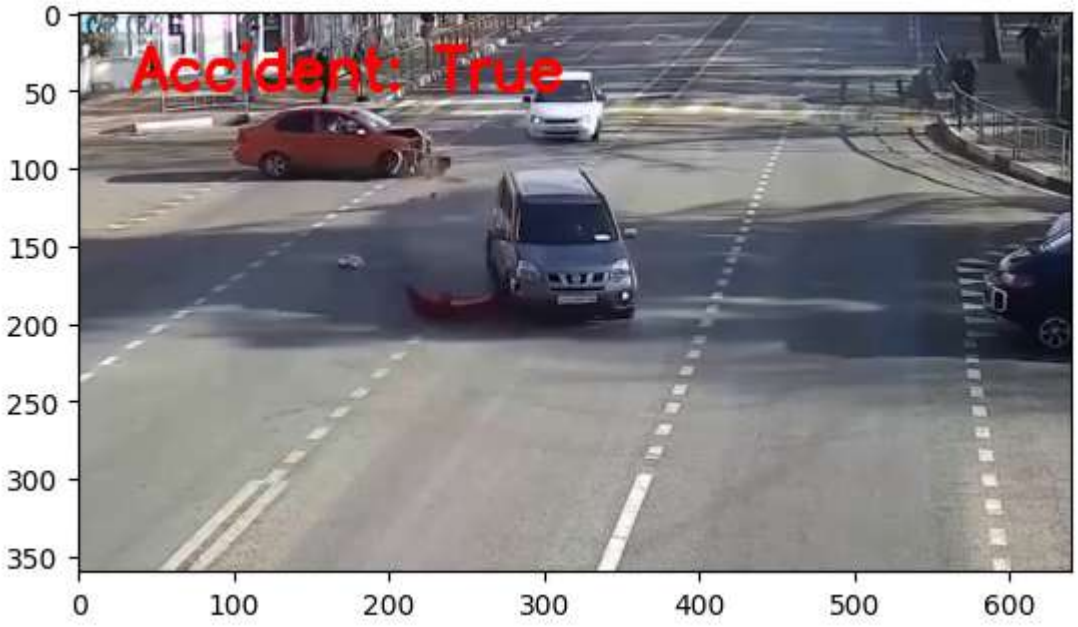

```
1/1 [==============================] - 0s 78ms/step
```



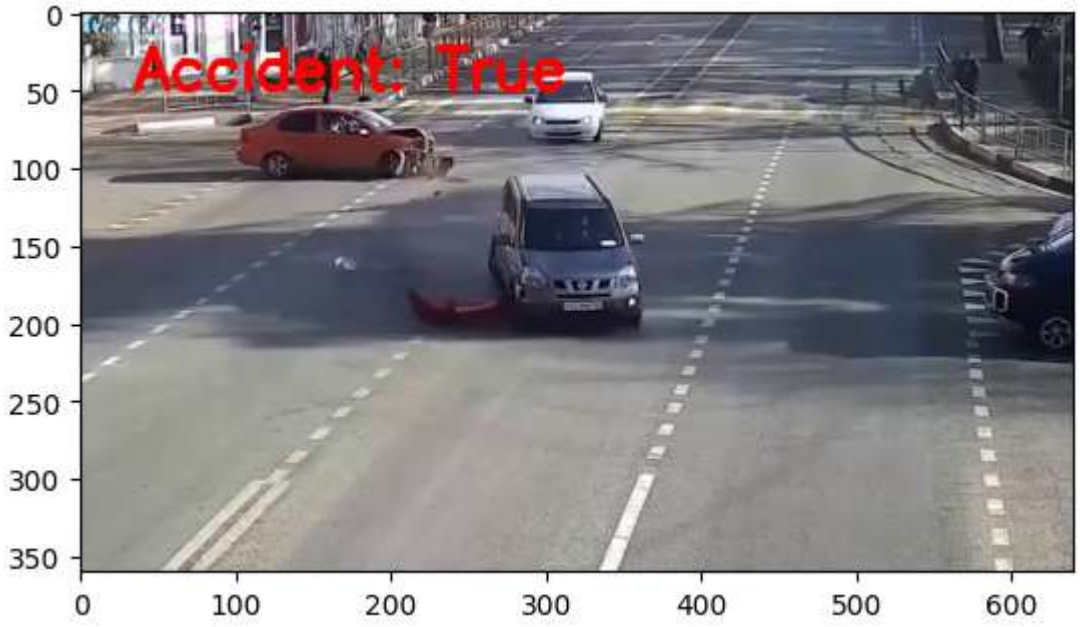
```
1/1 [==============================] - 0s 82ms/step
```



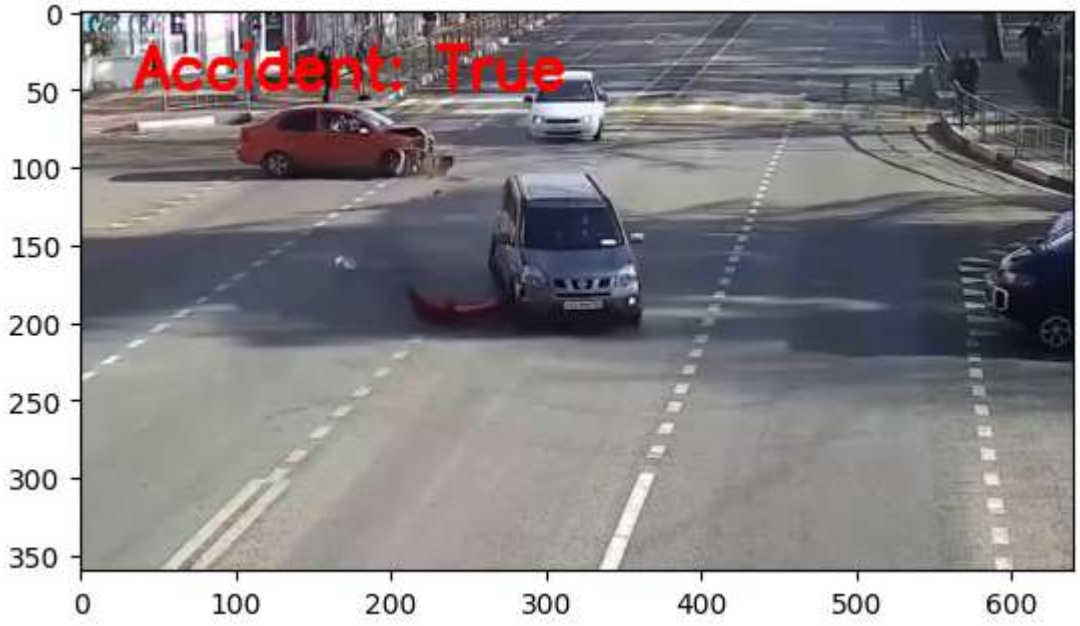

```
1/1 [==============================] - 0s 52ms/step
```



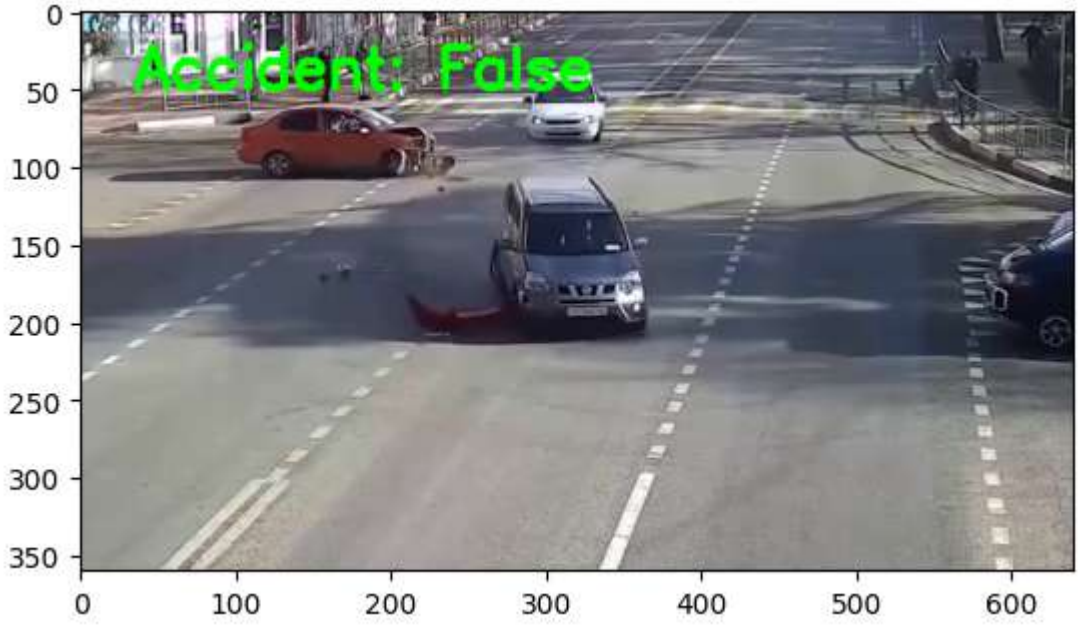

```
1/1 [==============================] - 0s 63ms/step
```



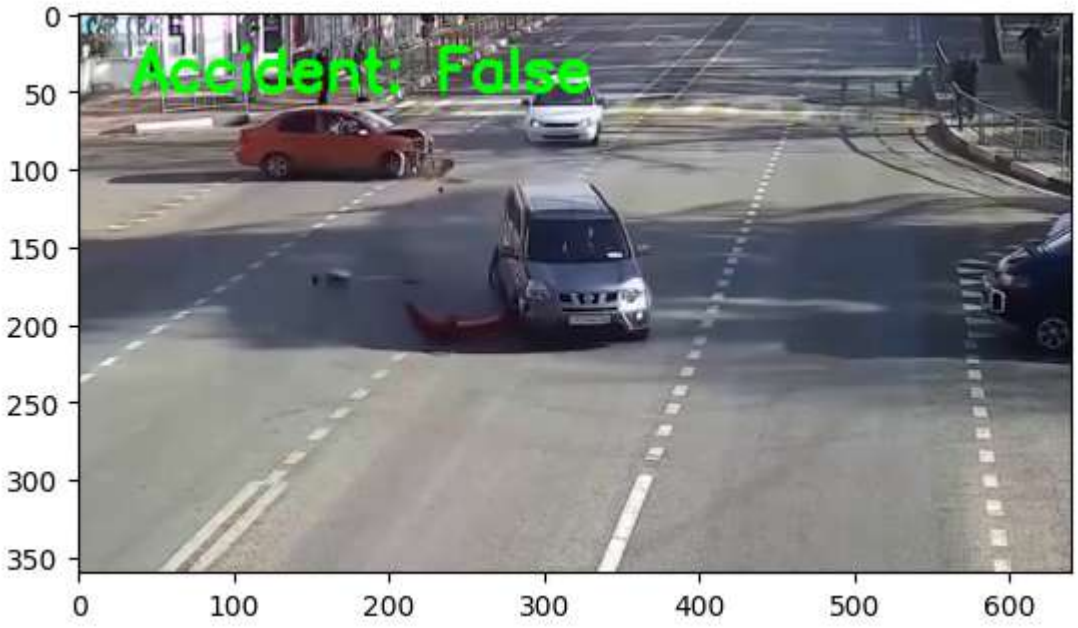

```
1/1 [==============================] - 0s 48ms/step
```



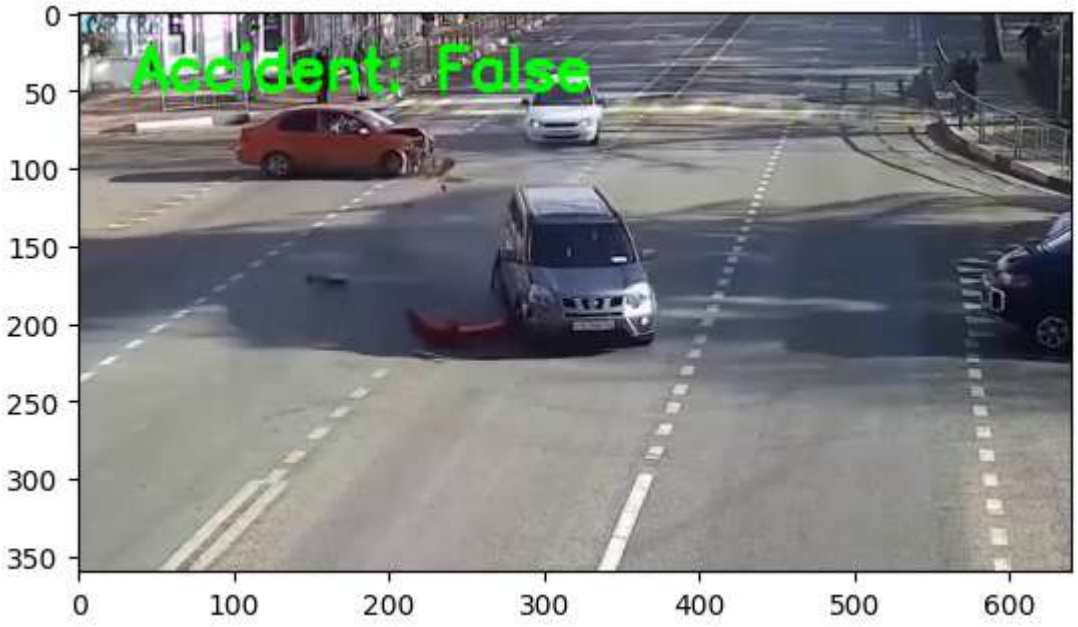

```
1/1 [==============================] - 0s 62ms/step
```



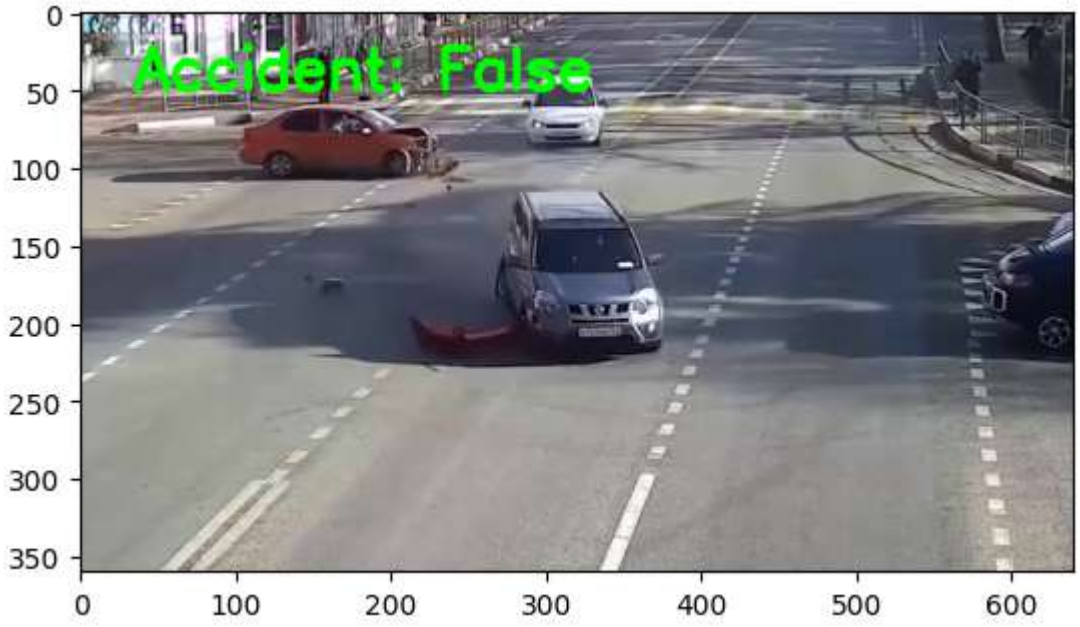
```
1/1 [==============================] - 0s 50ms/step
```



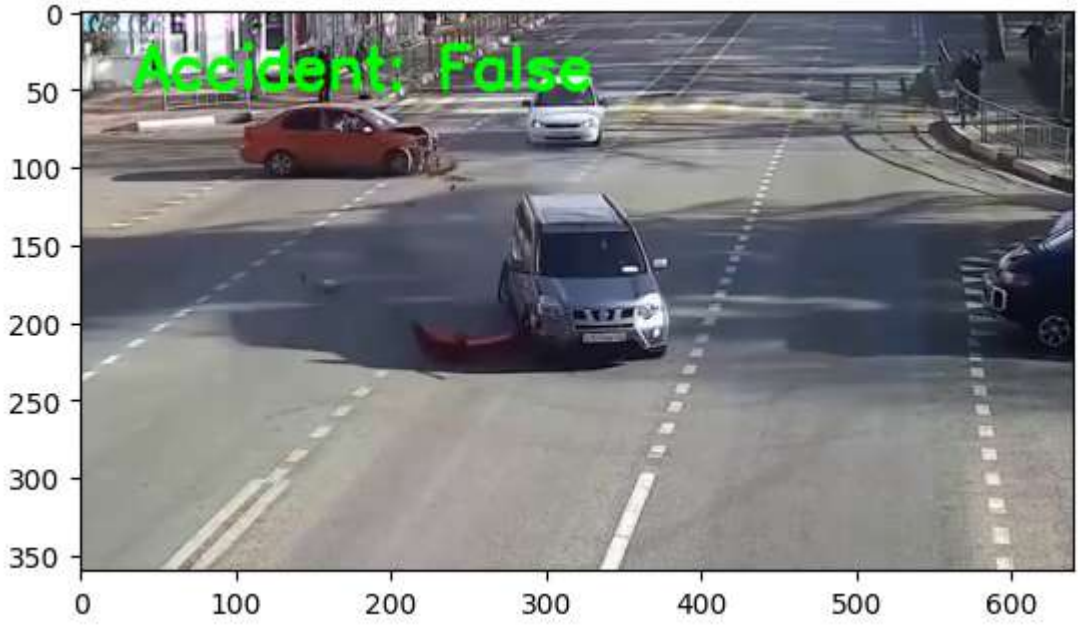

```
1/1 [==============================] - 0s 54ms/step
```



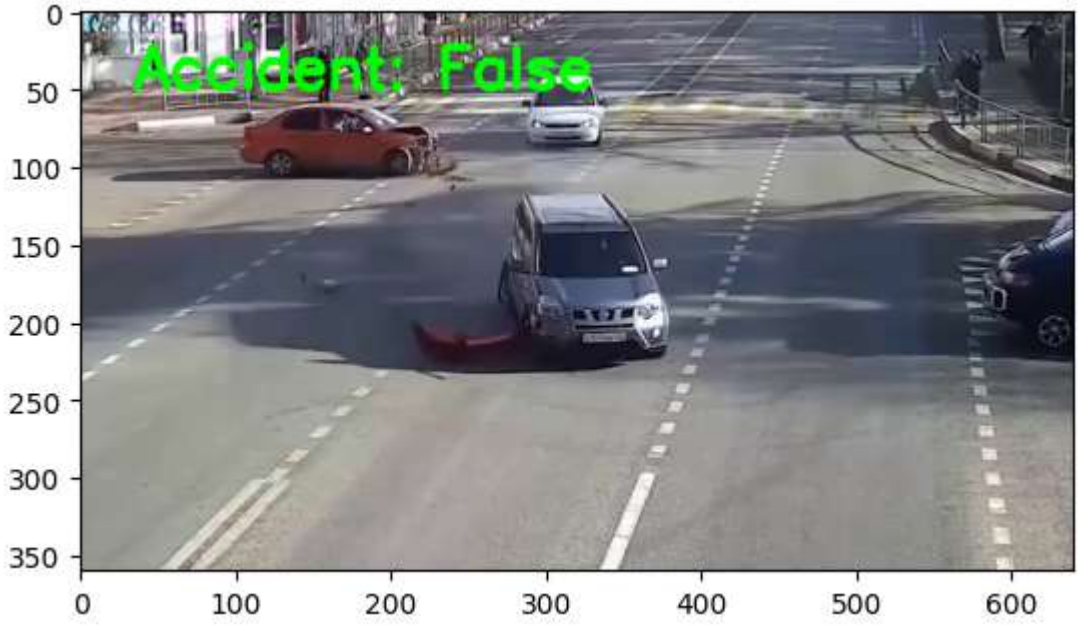

```
1/1 [==============================] - 0s 48ms/step
```



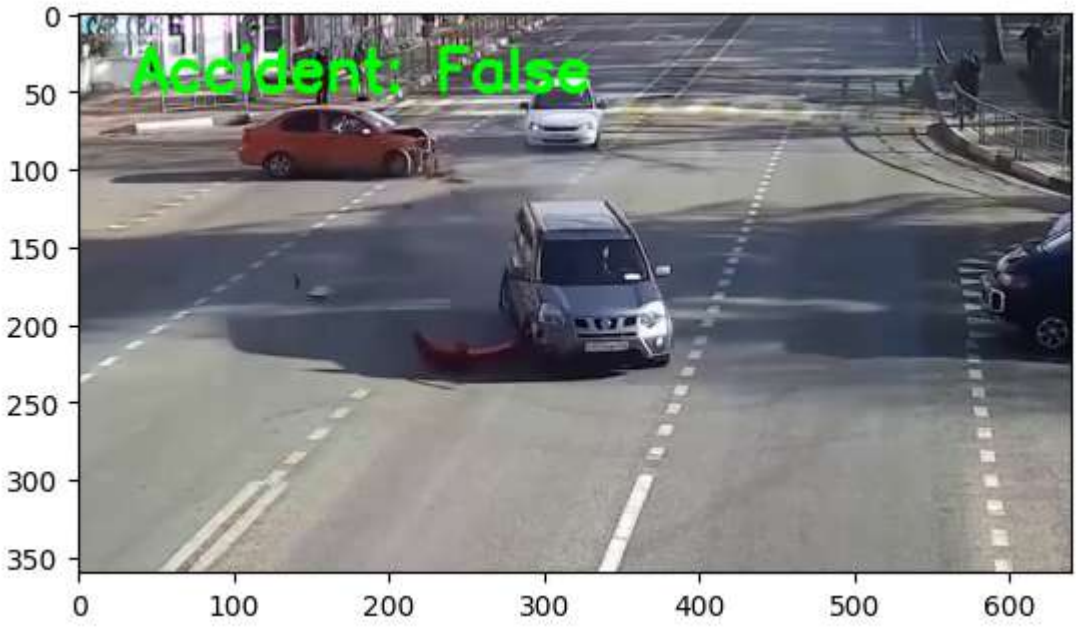

```
1/1 [==============================] - 0s 50ms/step
```



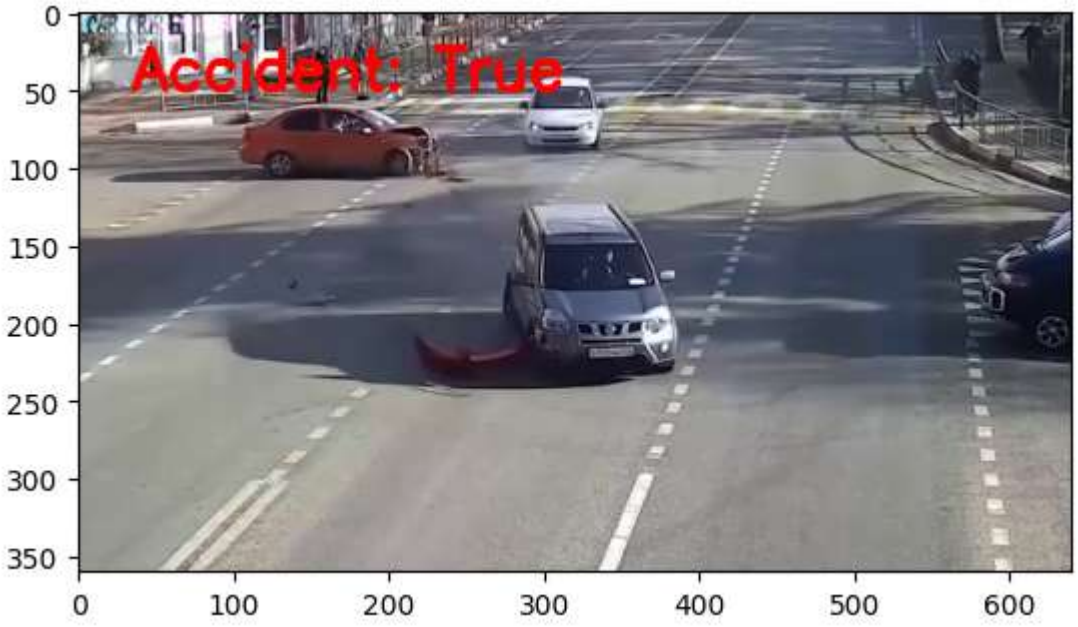

```
1/1 [==============================] - 0s 48ms/step
```



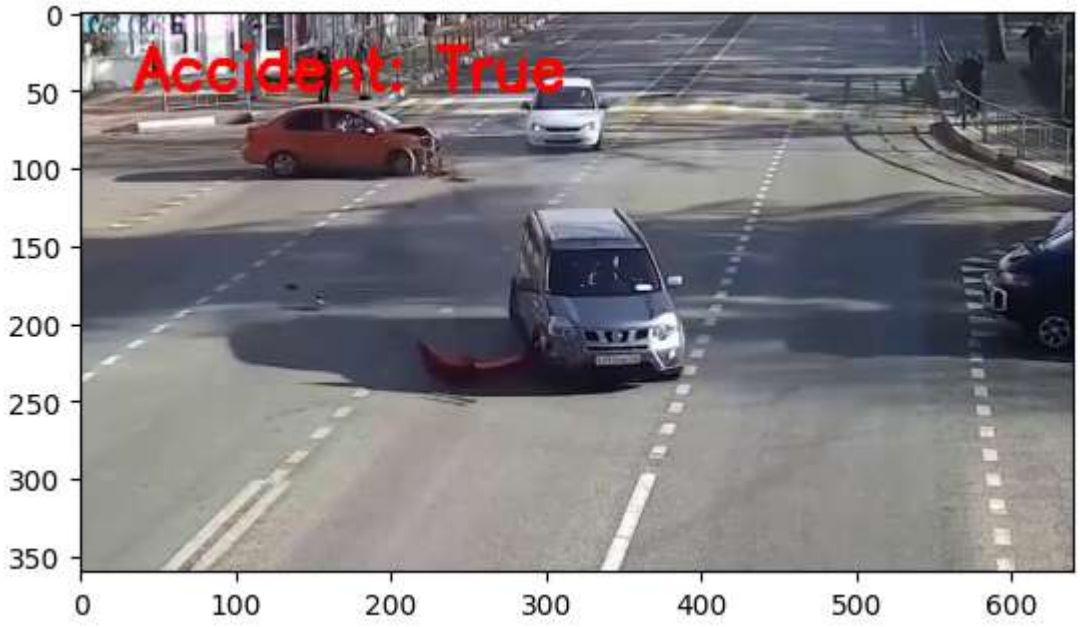
```
1/1 [==============================] - 0s 48ms/step
```



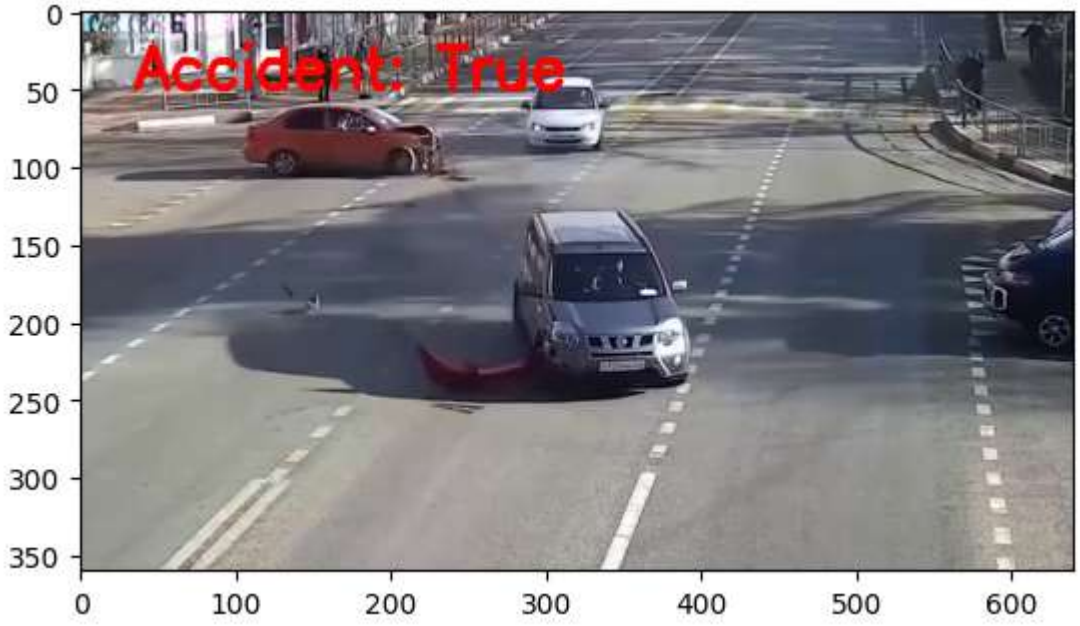

```
1/1 [==============================] - 0s 49ms/step
```



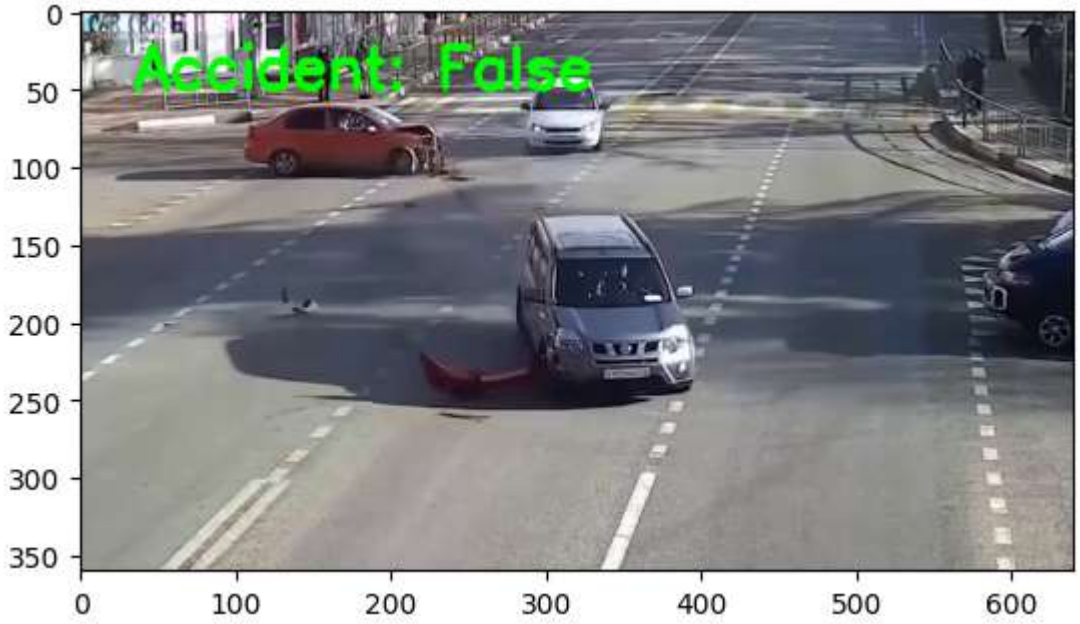

```
1/1 [==============================] - 0s 48ms/step
```



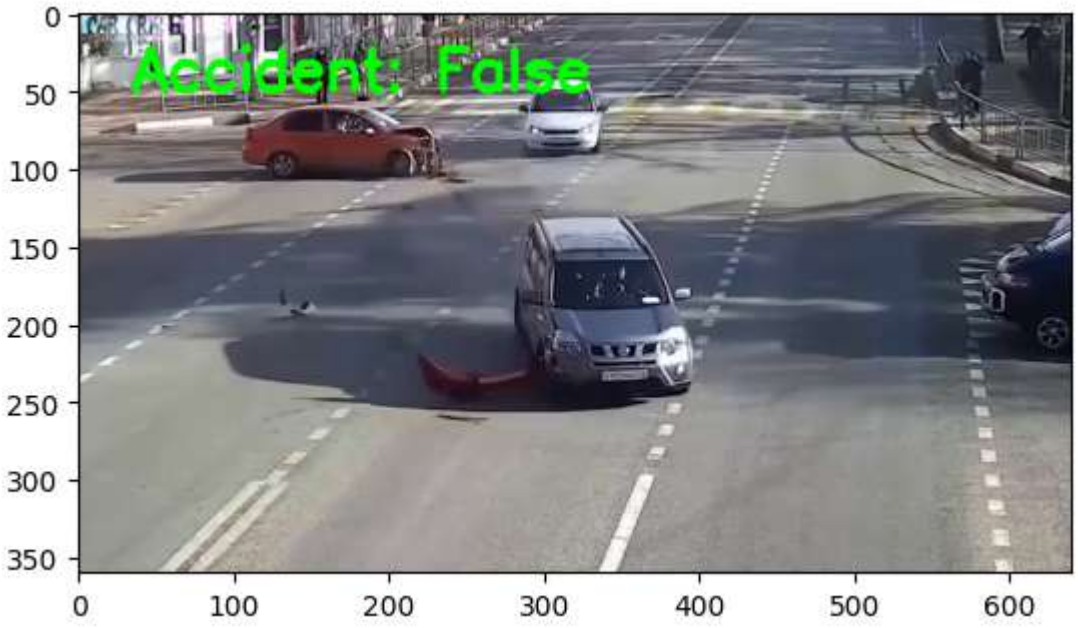

```
1/1 [==============================] - 0s 52ms/step
```



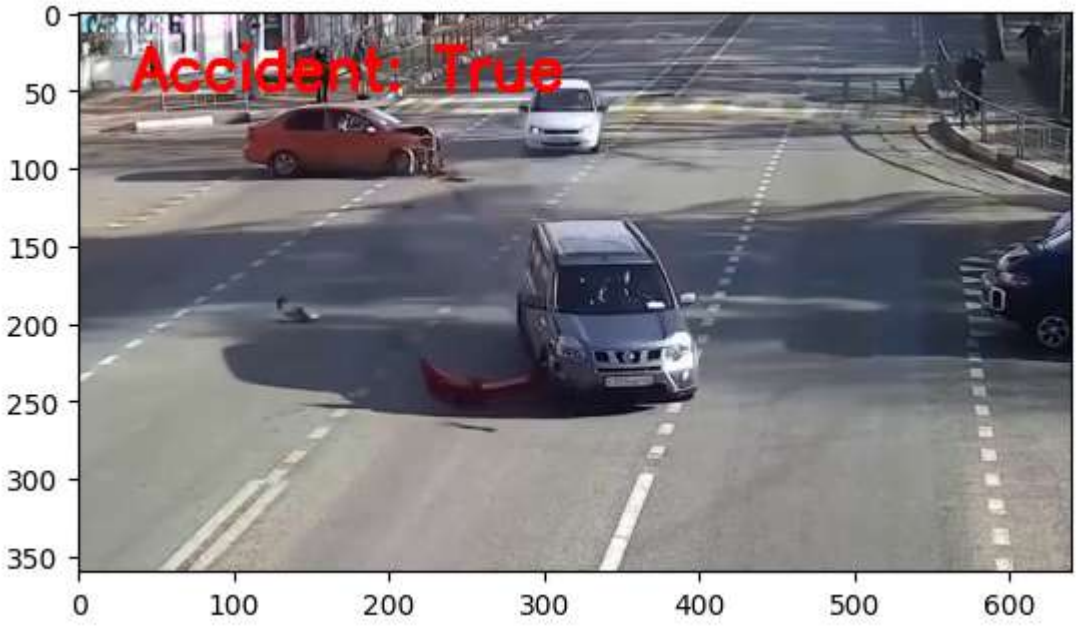

```
1/1 [==============================] - 0s 48ms/step
```



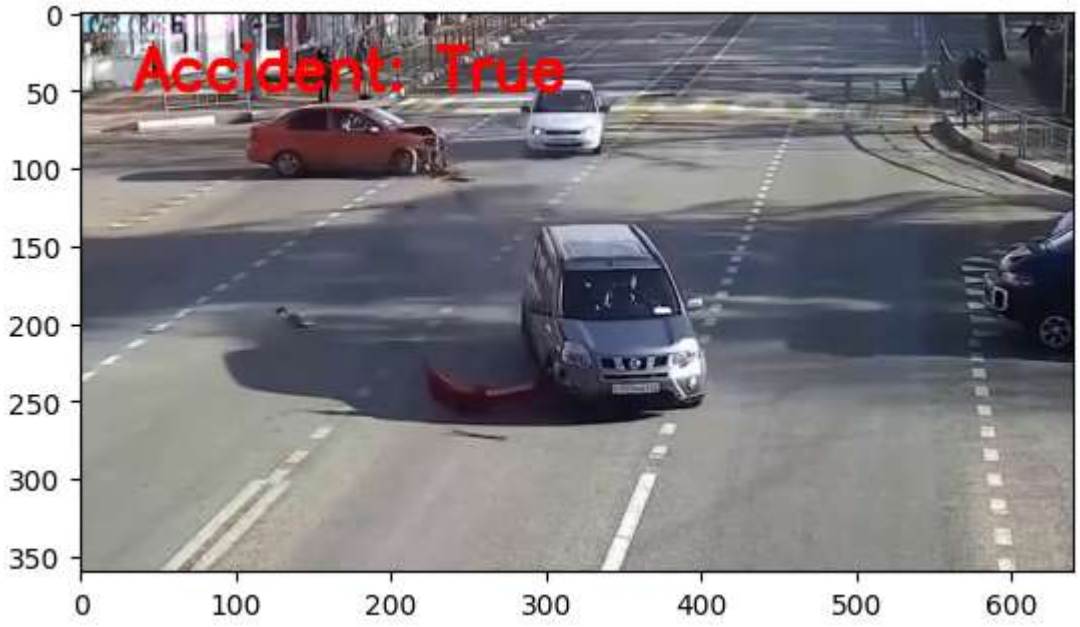
```
1/1 [==============================] - 0s 49ms/step
```



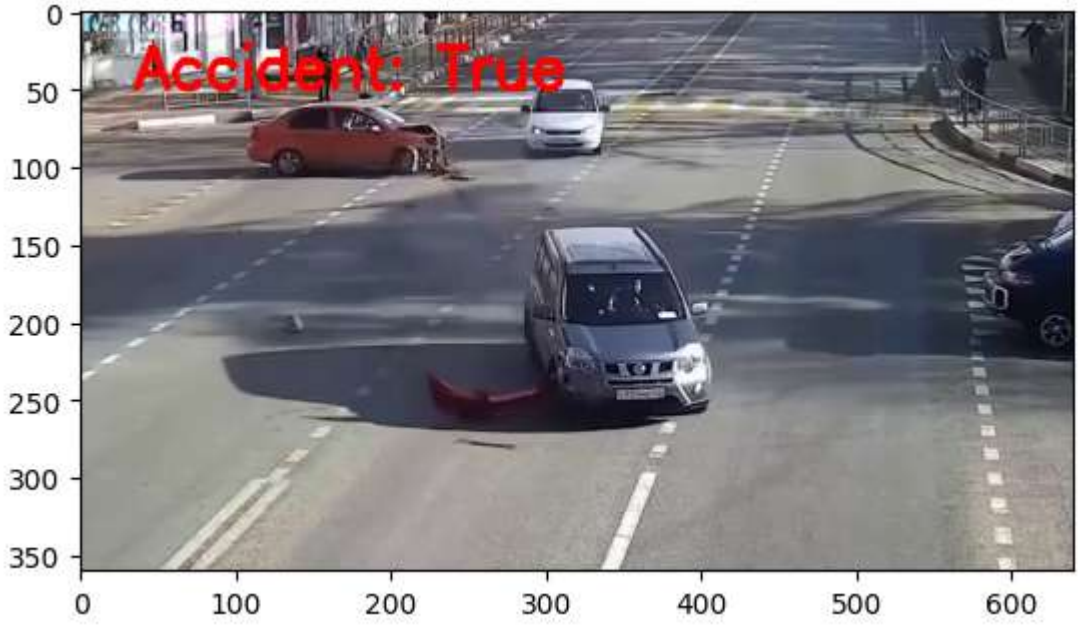

```
1/1 [==============================] - 0s 49ms/step
```



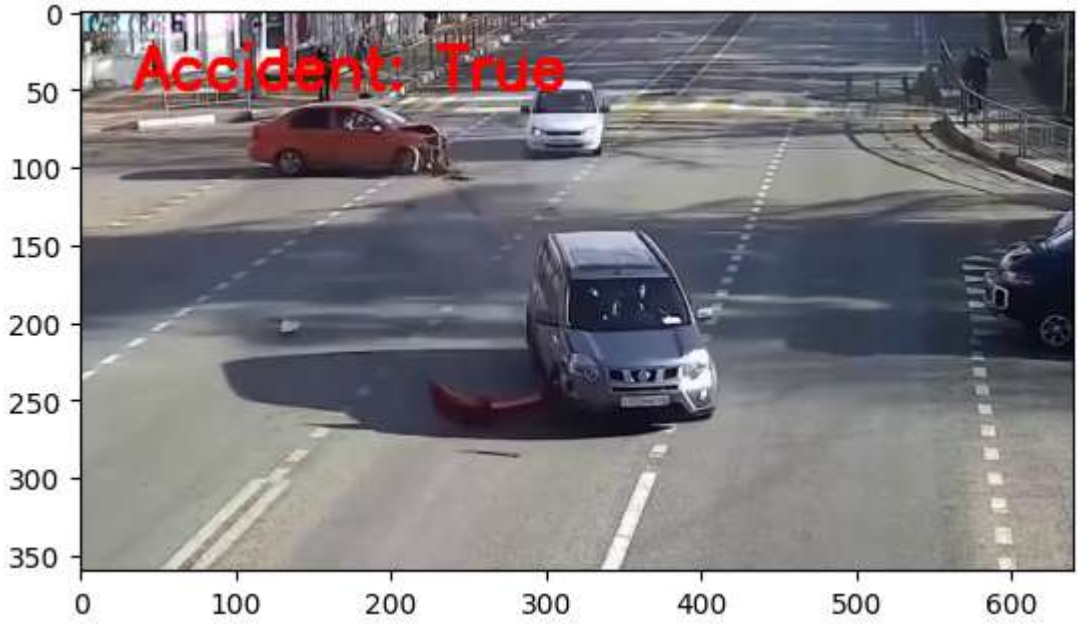

```
1/1 [==============================] - 0s 61ms/step
```



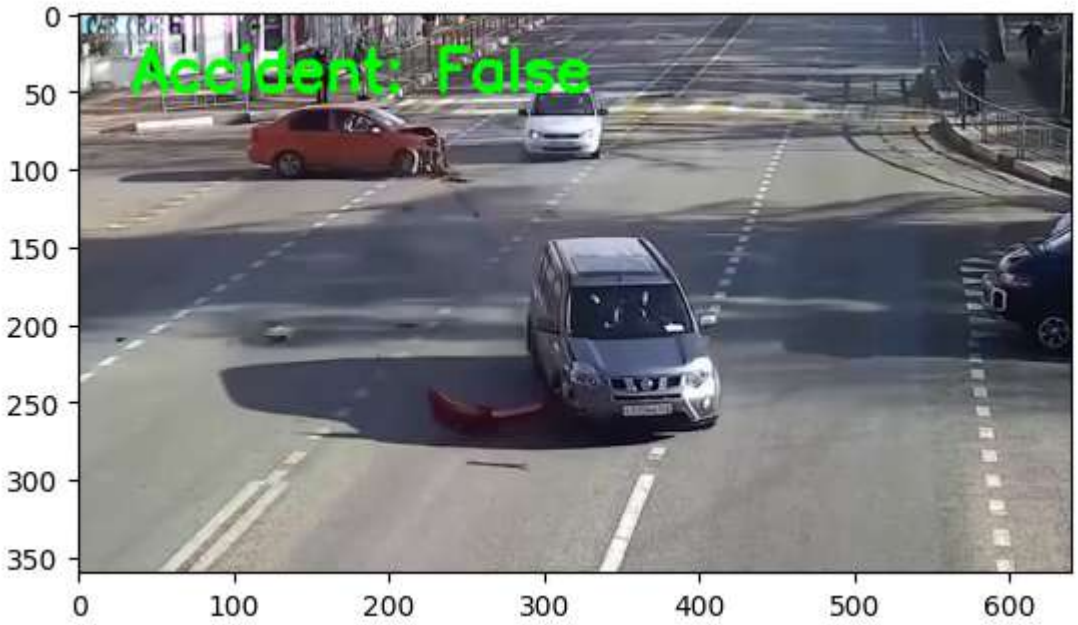

```
1/1 [==============================] - 0s 50ms/step
```



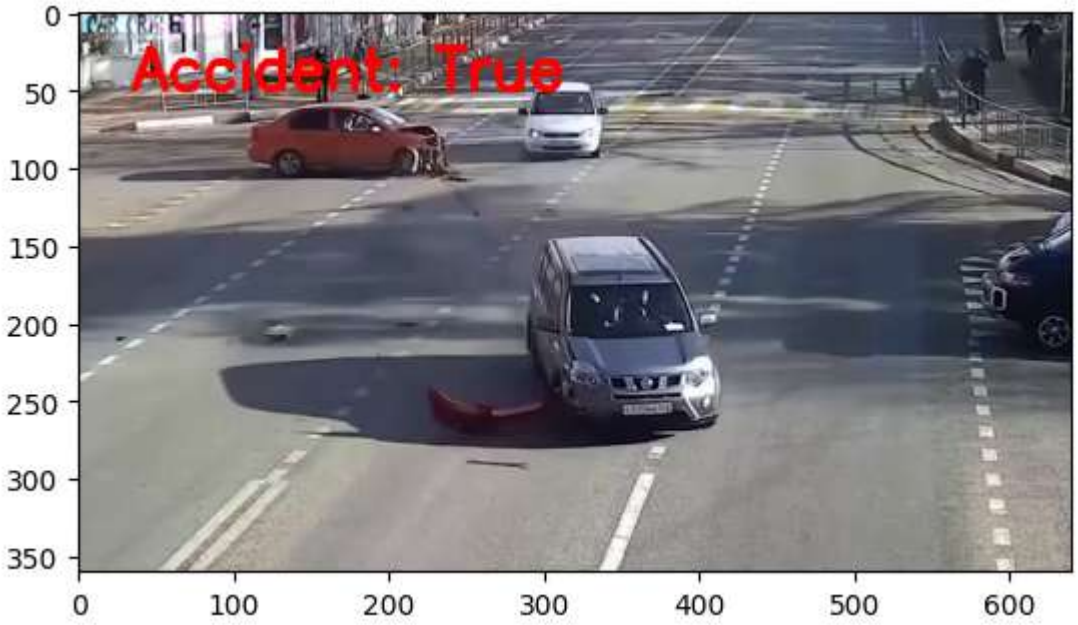

```
1/1 [==============================] - 0s 55ms/step
```



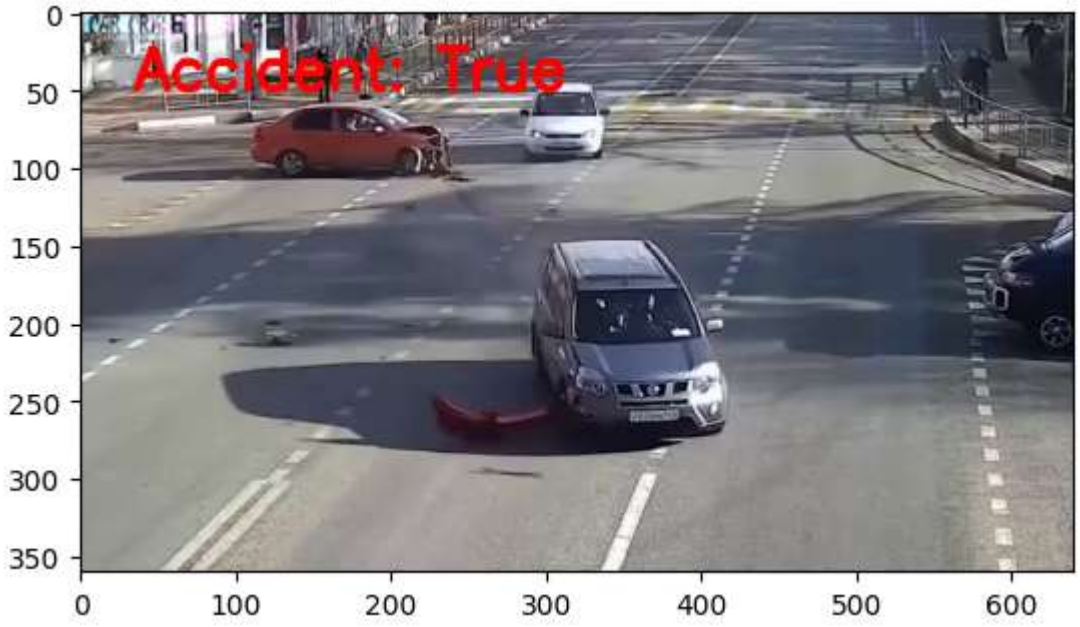
```
1/1 [==============================] - 0s 83ms/step
```



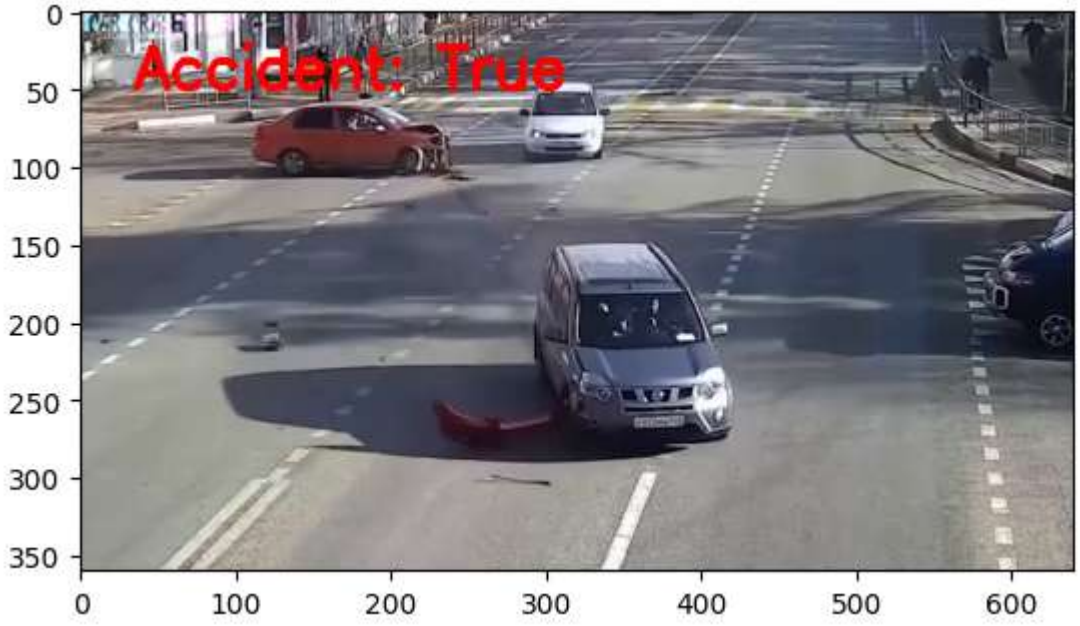

```
1/1 [==============================] - 0s 73ms/step
```



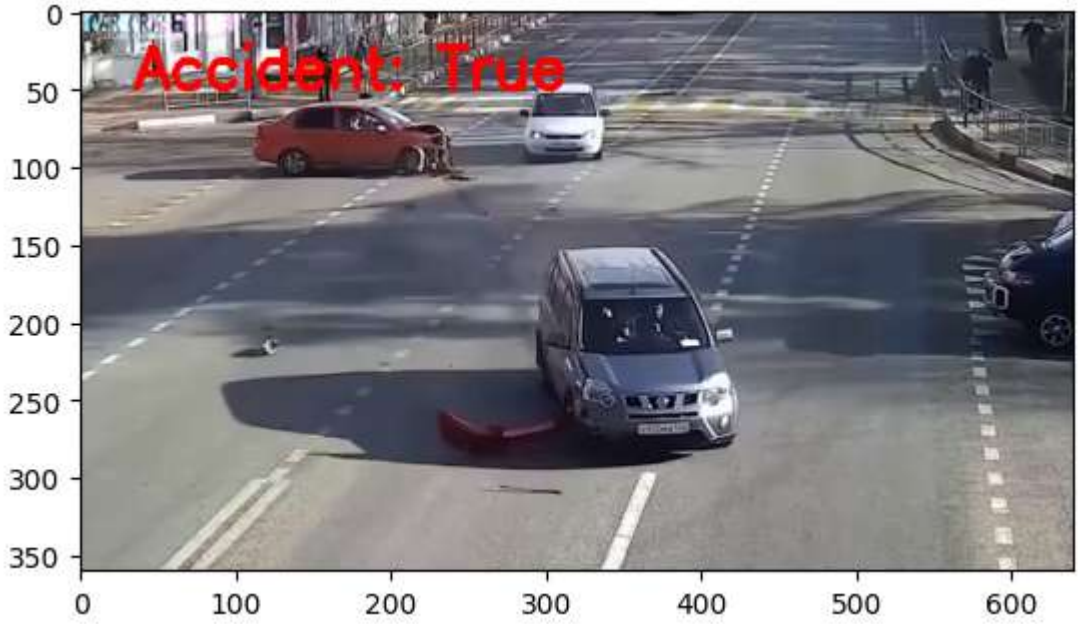

```
1/1 [==============================] - 0s 52ms/step
```



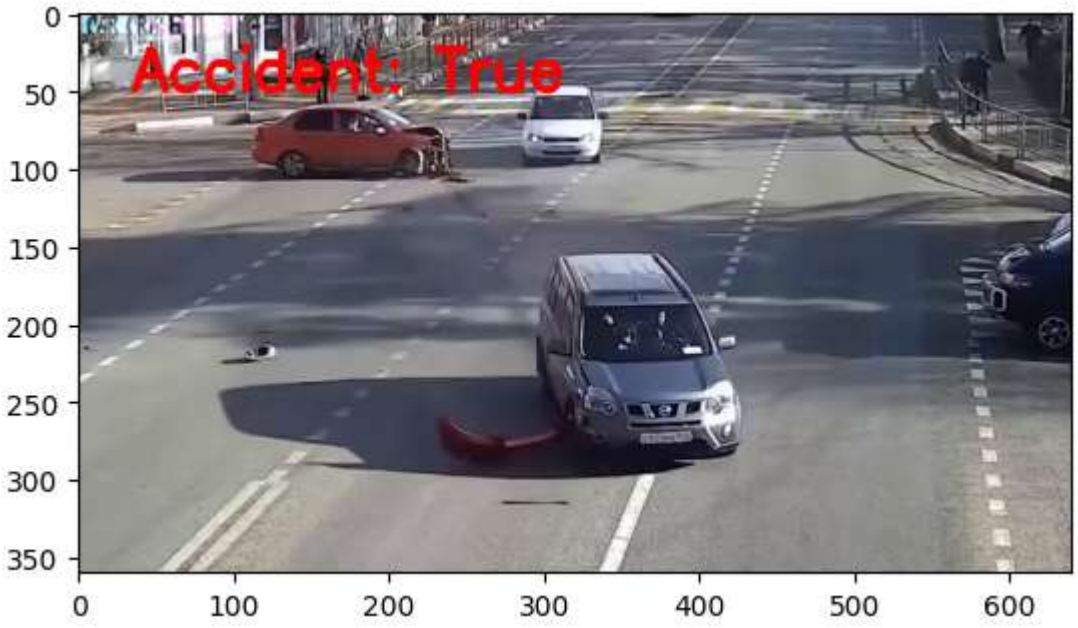

```
1/1 [==============================] - 0s 50ms/step
```



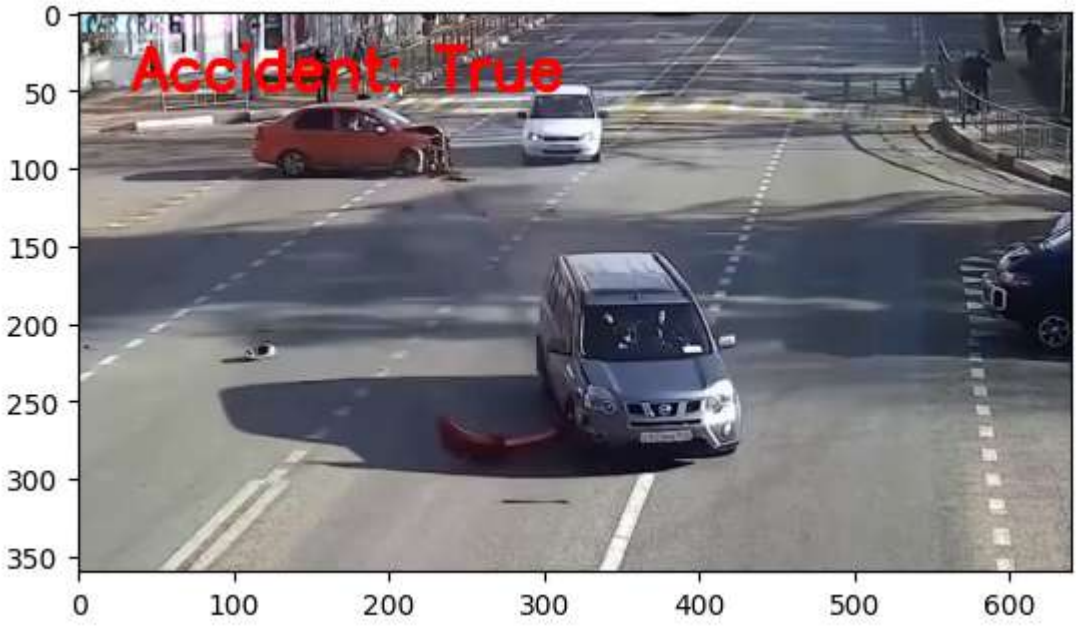

```
1/1 [==============================] - 0s 58ms/step
```



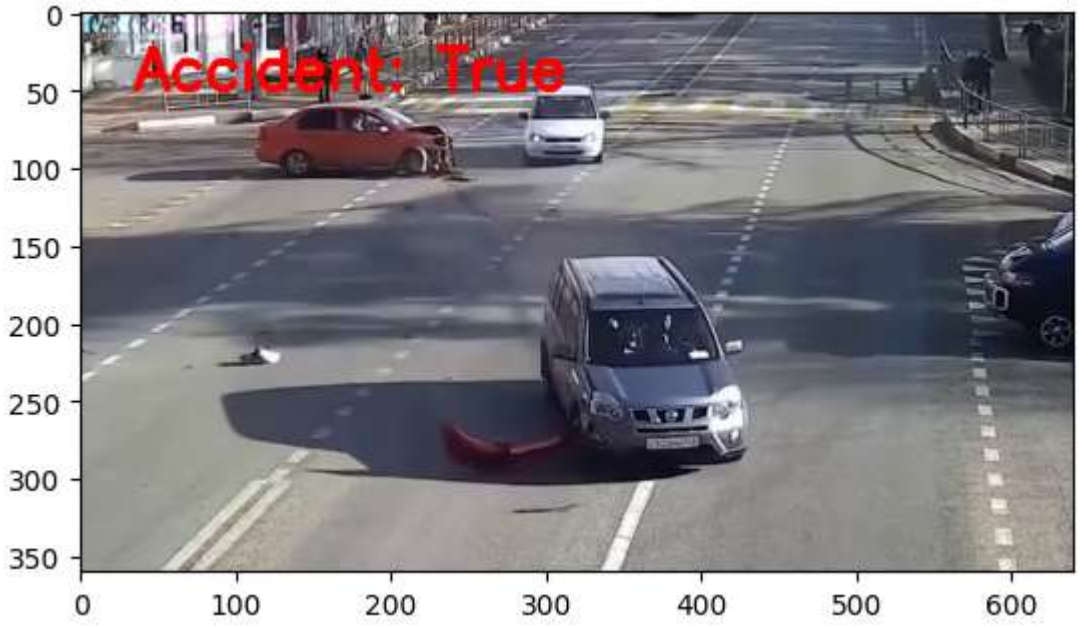
```
1/1 [==============================] - 0s 57ms/step
```



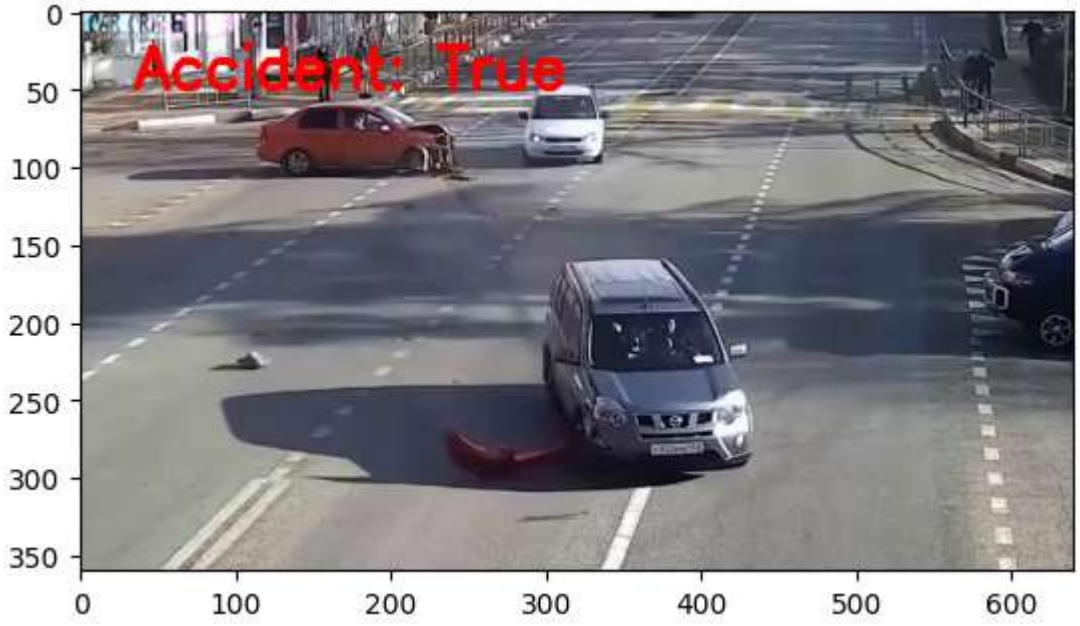

```
1/1 [==============================] - 0s 57ms/step
```



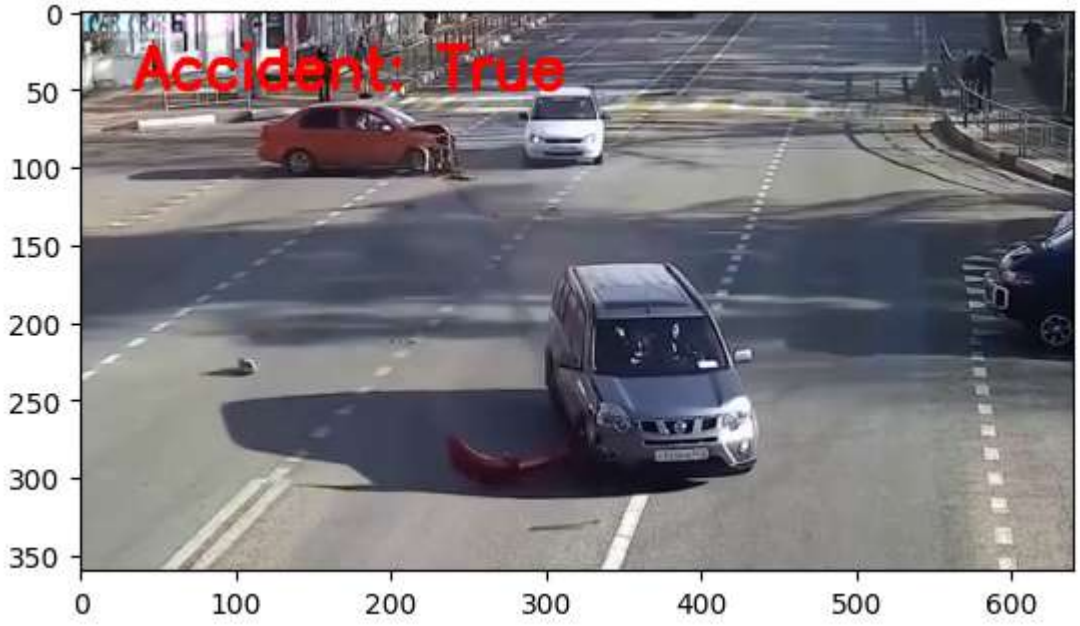

```
1/1 [==============================] - 0s 69ms/step
```



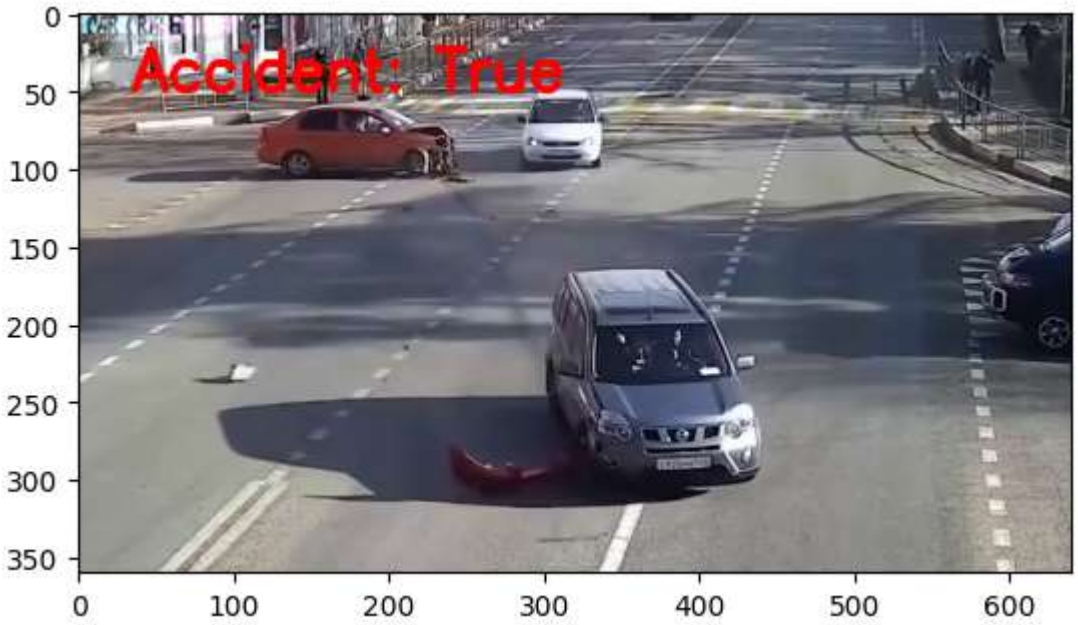

```
1/1 [==============================] - 0s 67ms/step
```



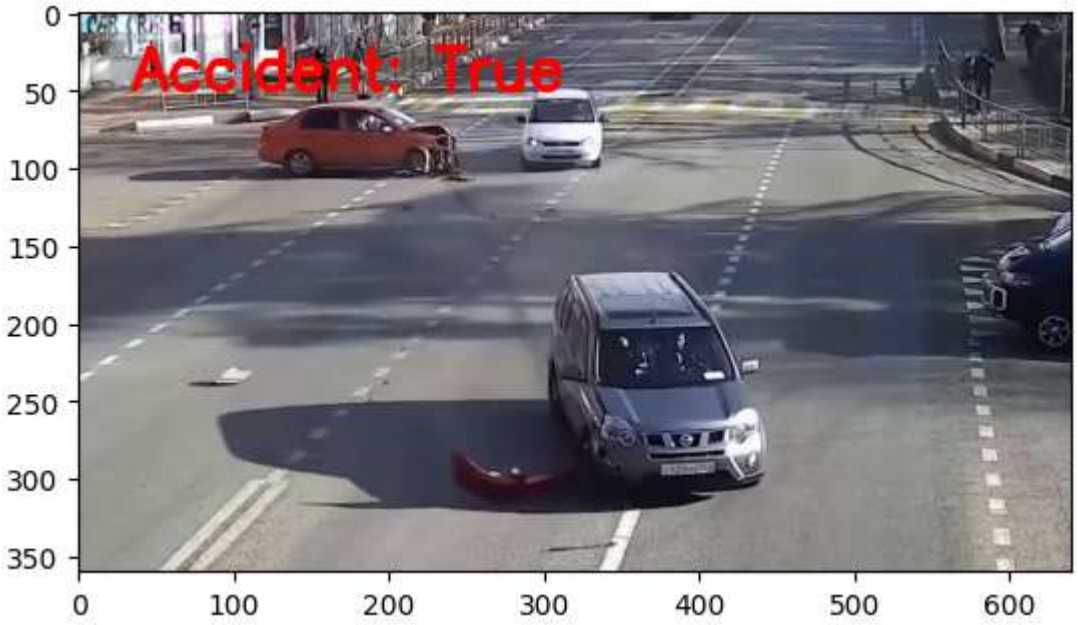

```
1/1 [==============================] - 0s 50ms/step
```



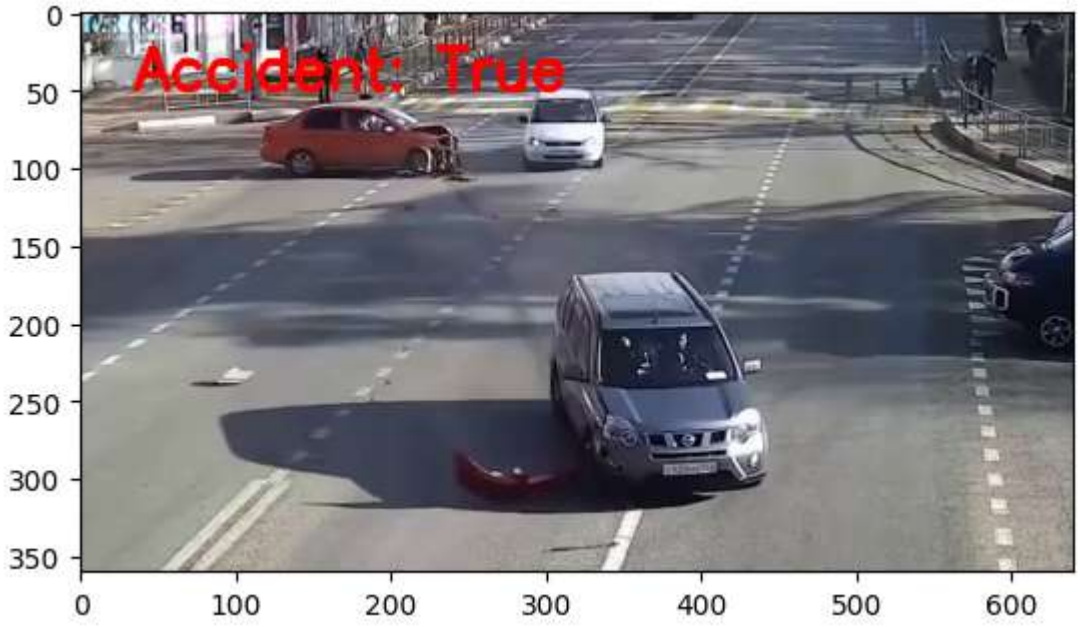
```
1/1 [==============================] - 0s 77ms/step
```



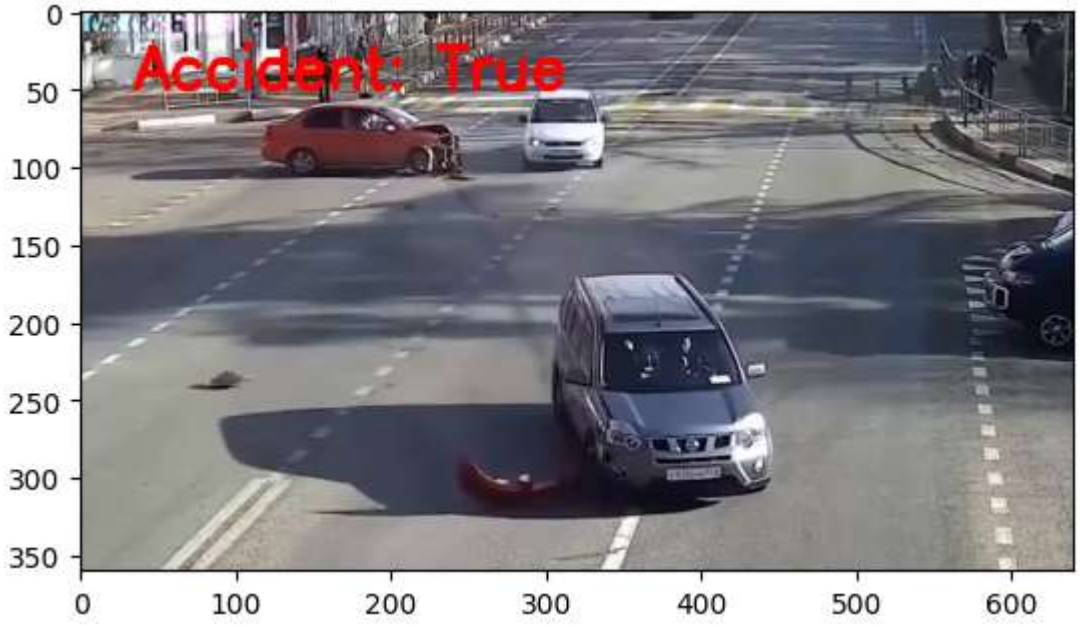

```
1/1 [==============================] - 0s 50ms/step
```



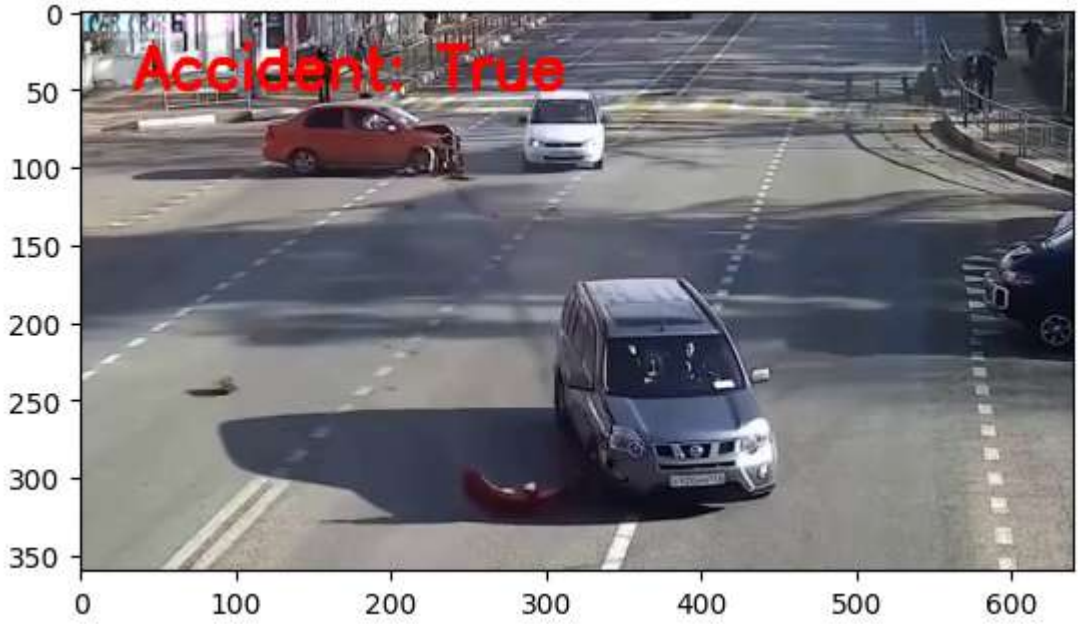

```
1/1 [==============================] - 0s 49ms/step
```



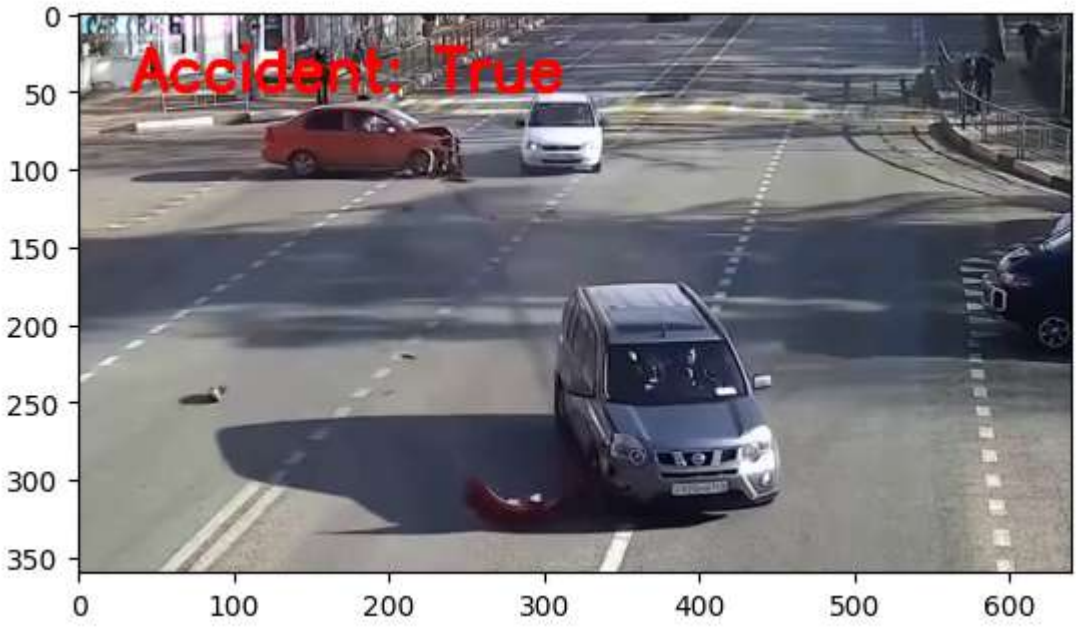

```
1/1 [==============================] - 0s 51ms/step
```



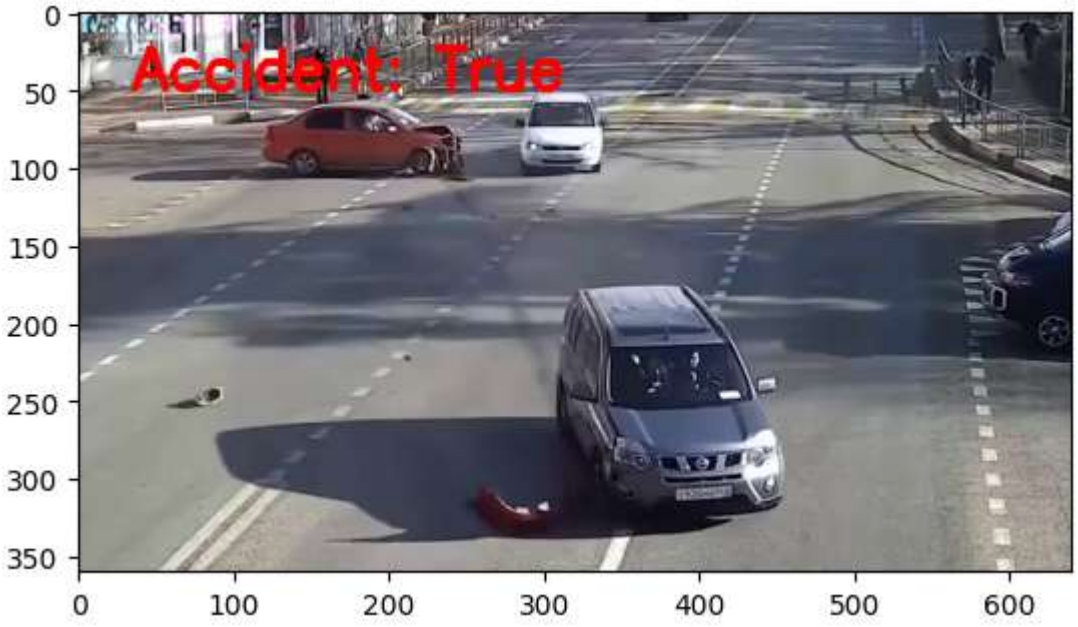

```
1/1 [==============================] - 0s 48ms/step
```



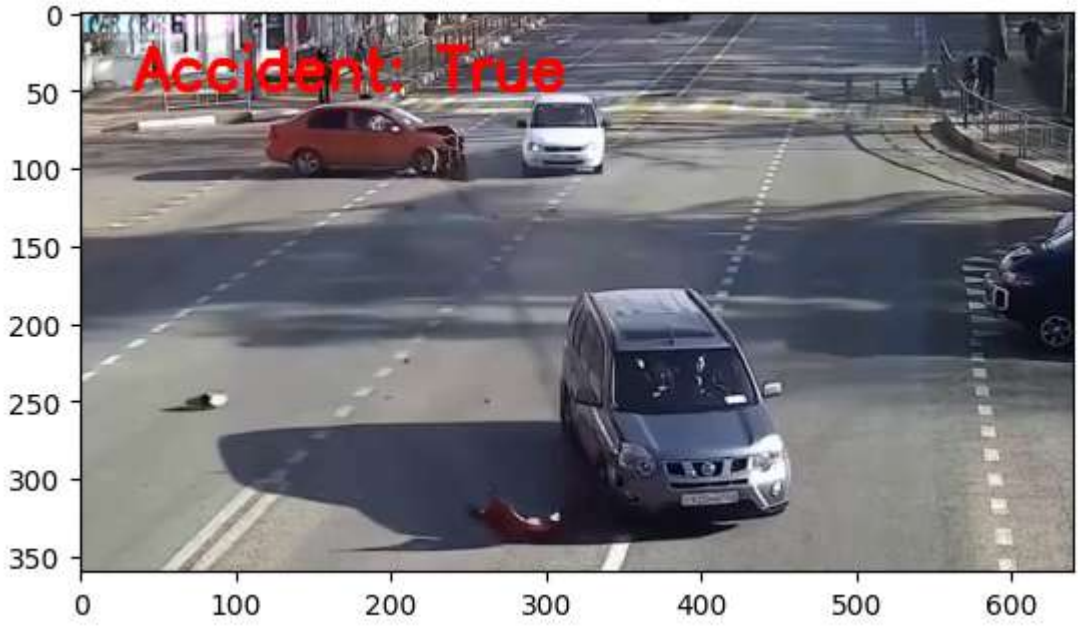
```
1/1 [==============================] - 0s 53ms/step
```



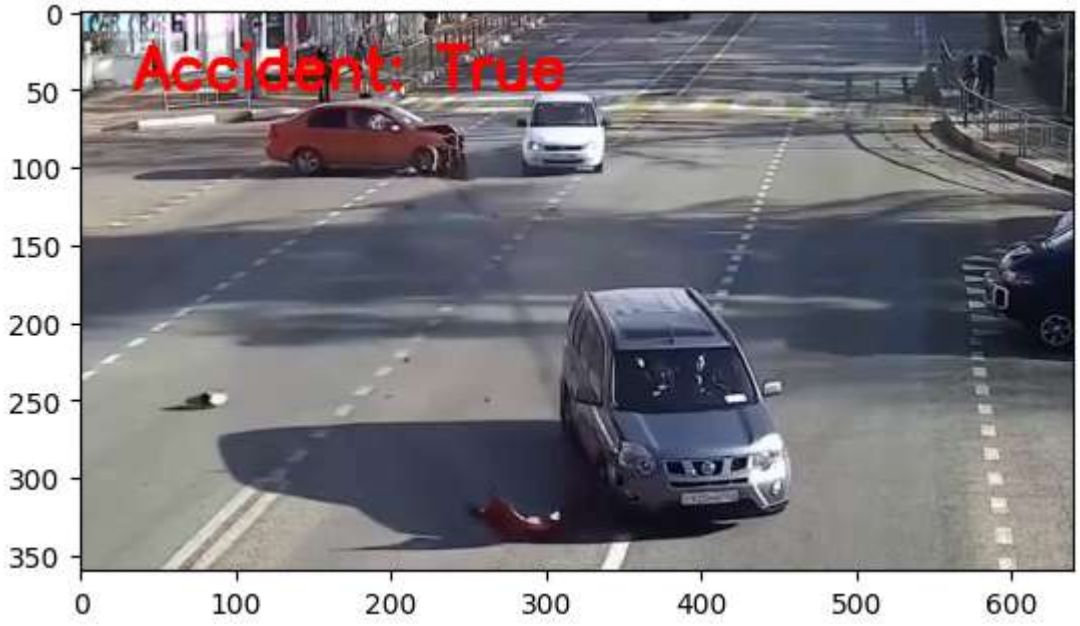

```
1/1 [==============================] - 0s 51ms/step
```



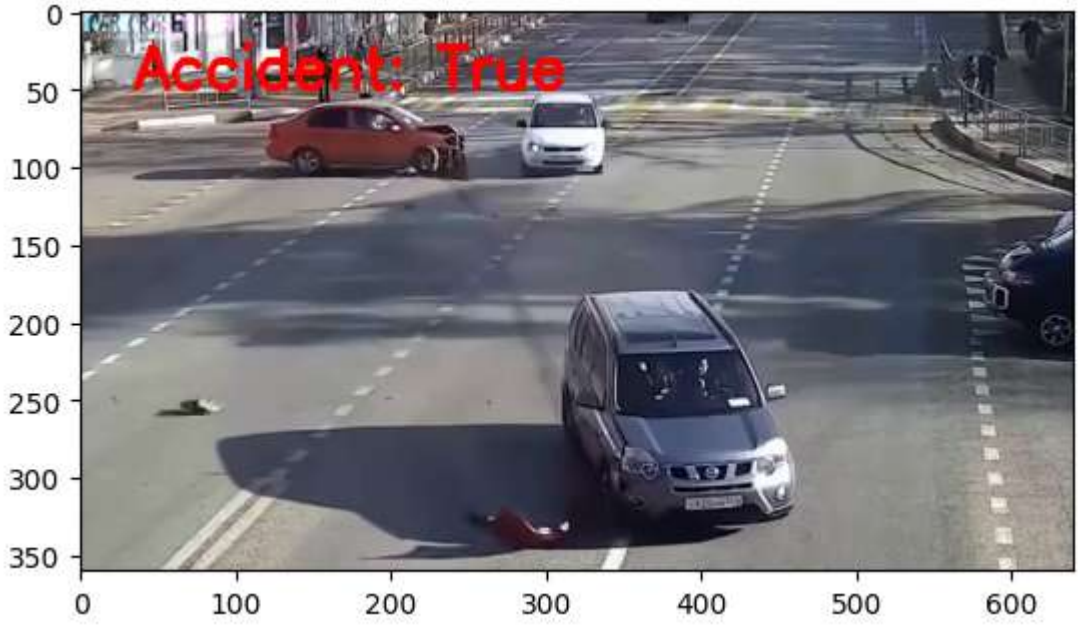

```
1/1 [==============================] - 0s 48ms/step
```



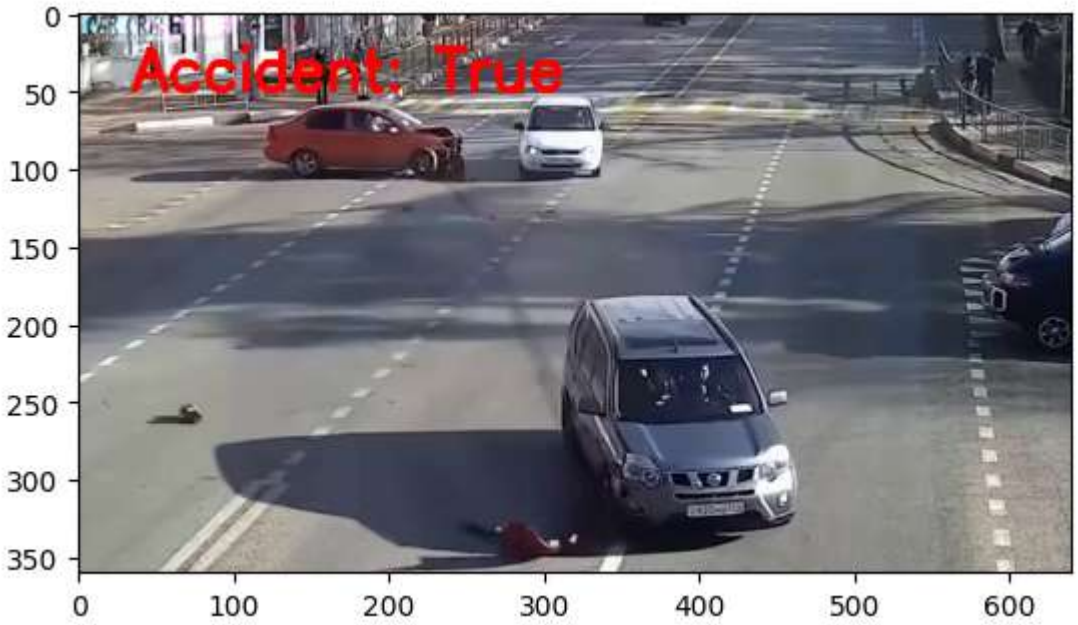

```
1/1 [==============================] - 0s 58ms/step
```



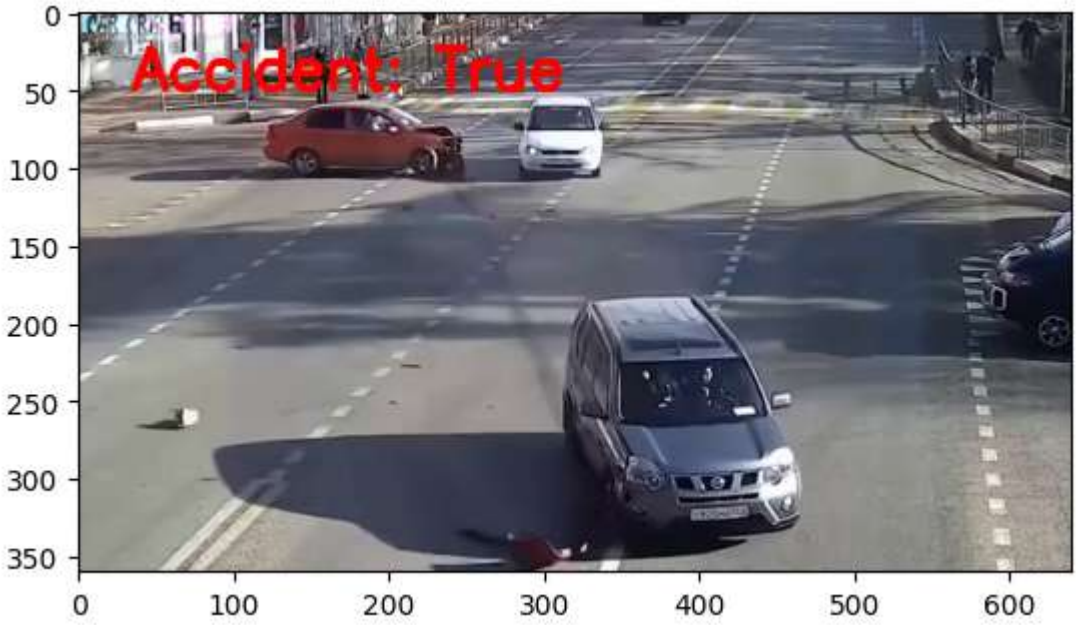

```
1/1 [==============================] - 0s 48ms/step
```



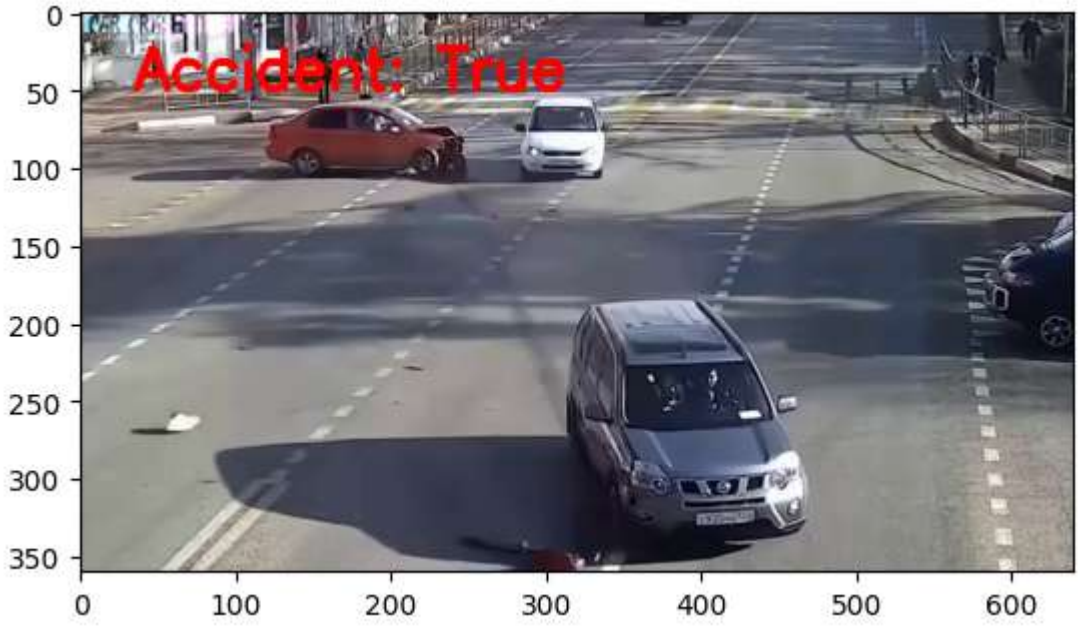
```
1/1 [==============================] - 0s 47ms/step
```



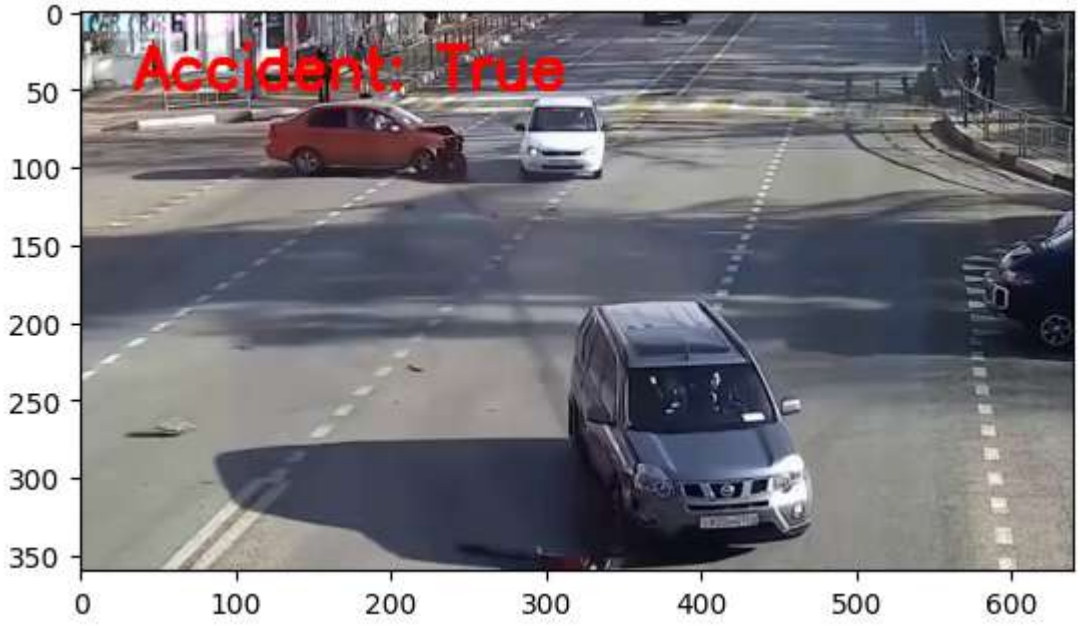

```
1/1 [==============================] - 0s 50ms/step
```



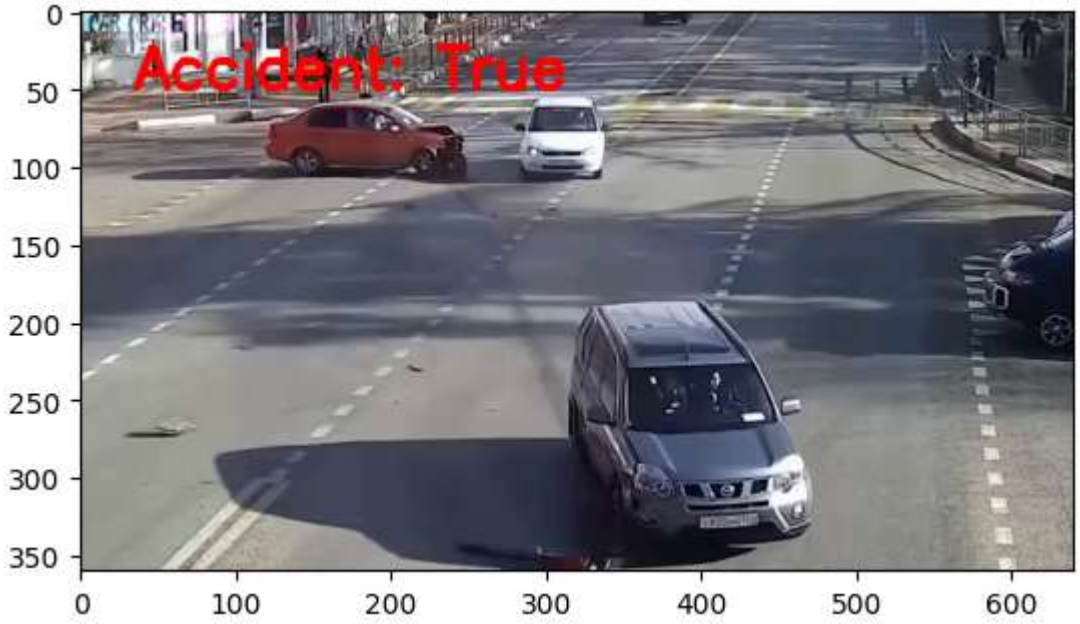

```
1/1 [==============================] - 0s 74ms/step
```



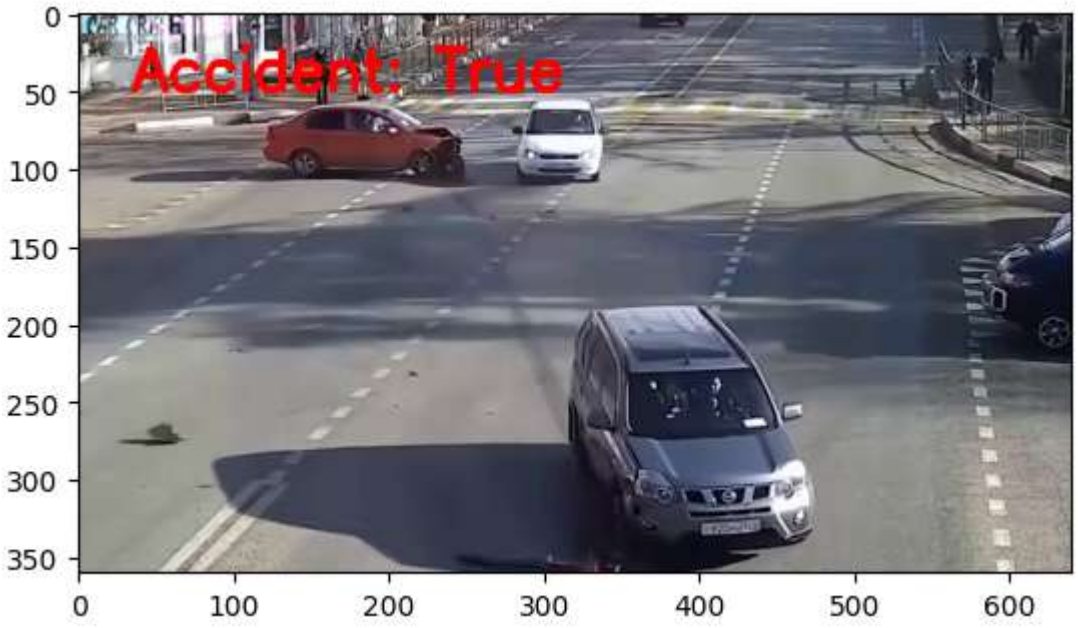

```
1/1 [==============================] - 0s 52ms/step
```



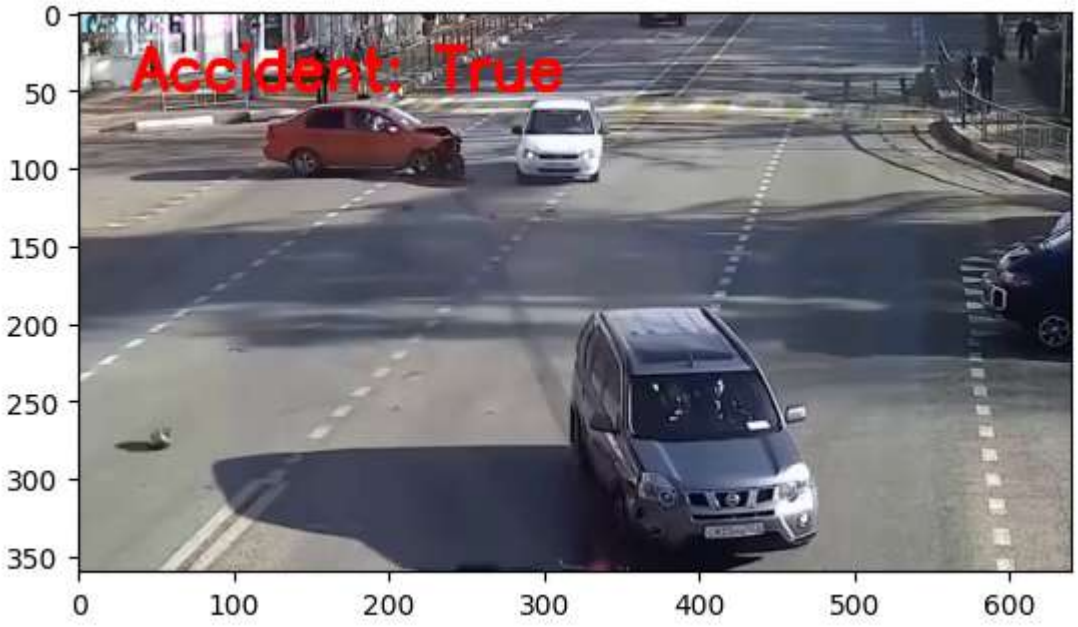

```
1/1 [==============================] - 0s 48ms/step
```



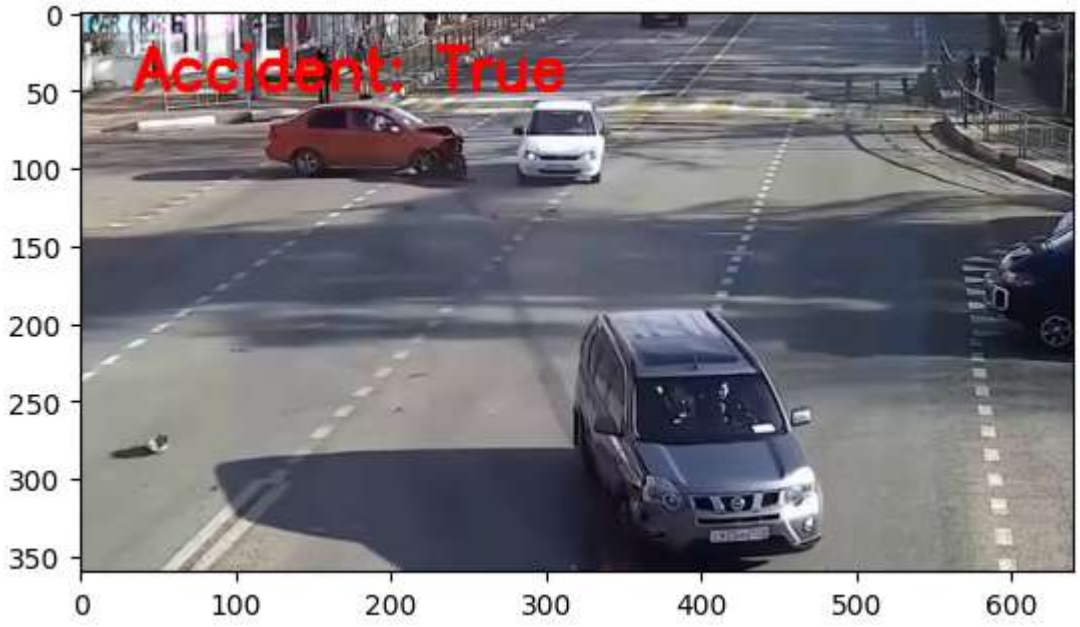
```
1/1 [==============================] - 0s 45ms/step
```



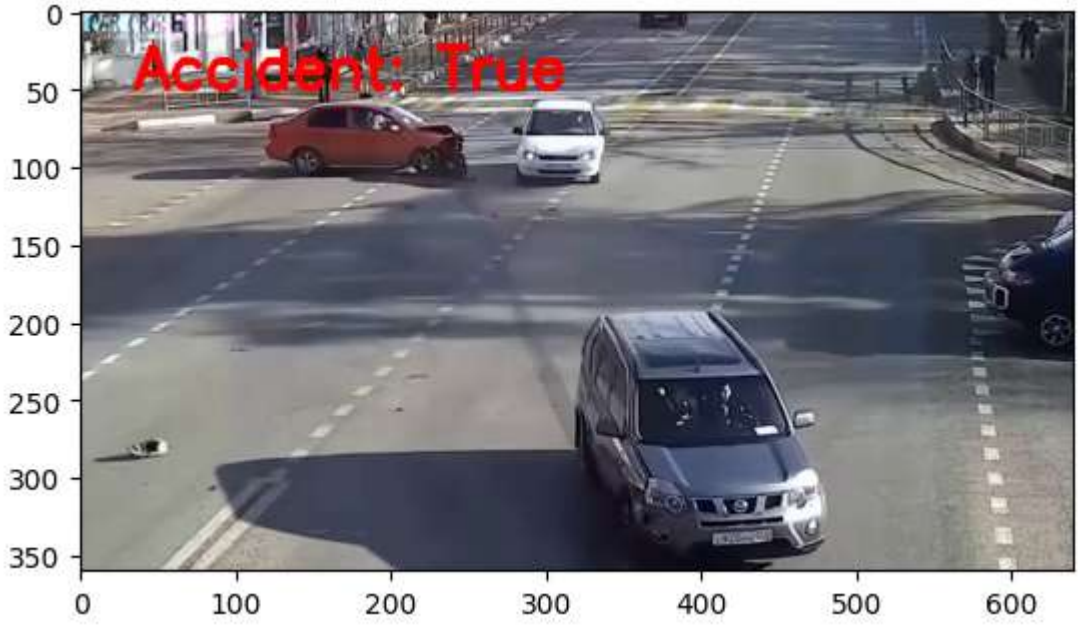

```
1/1 [==============================] - 0s 52ms/step
```



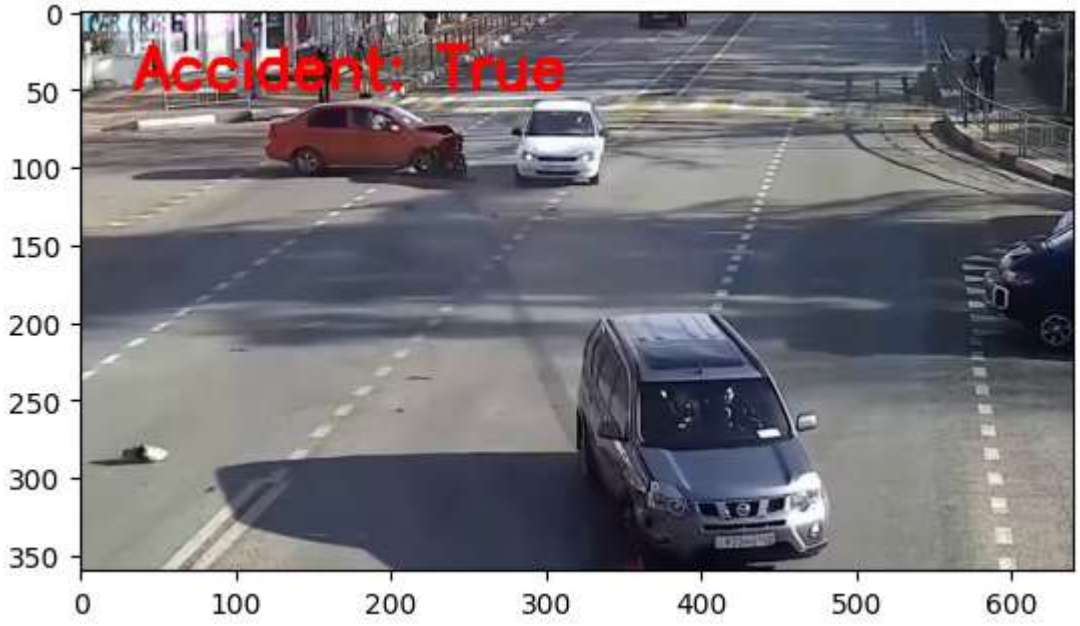

```
1/1 [==============================] - 0s 50ms/step
```



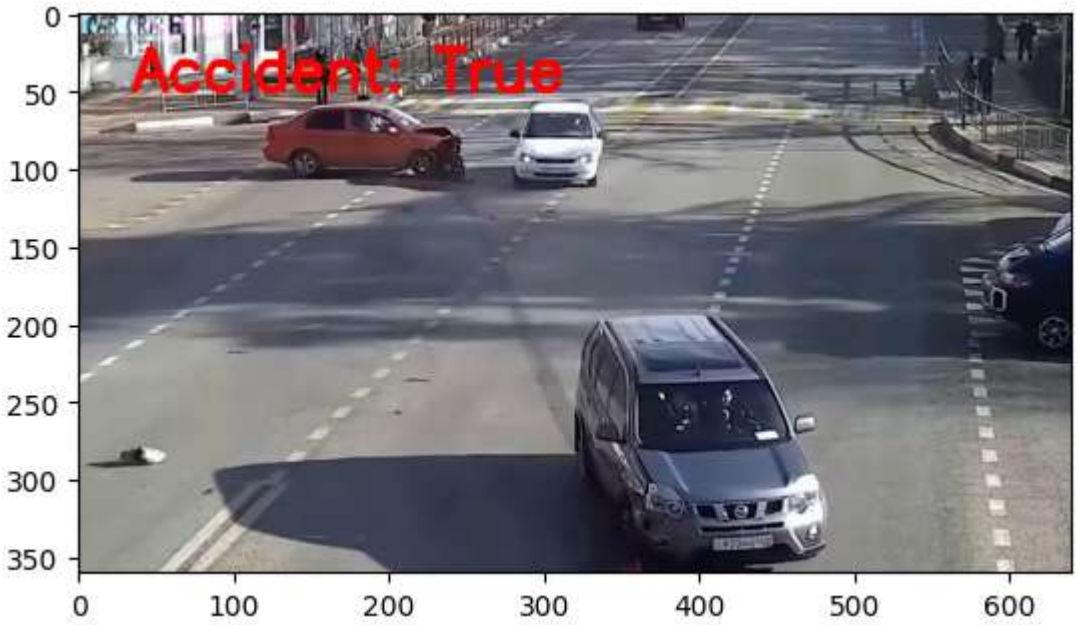

```
1/1 [==============================] - 0s 50ms/step
```



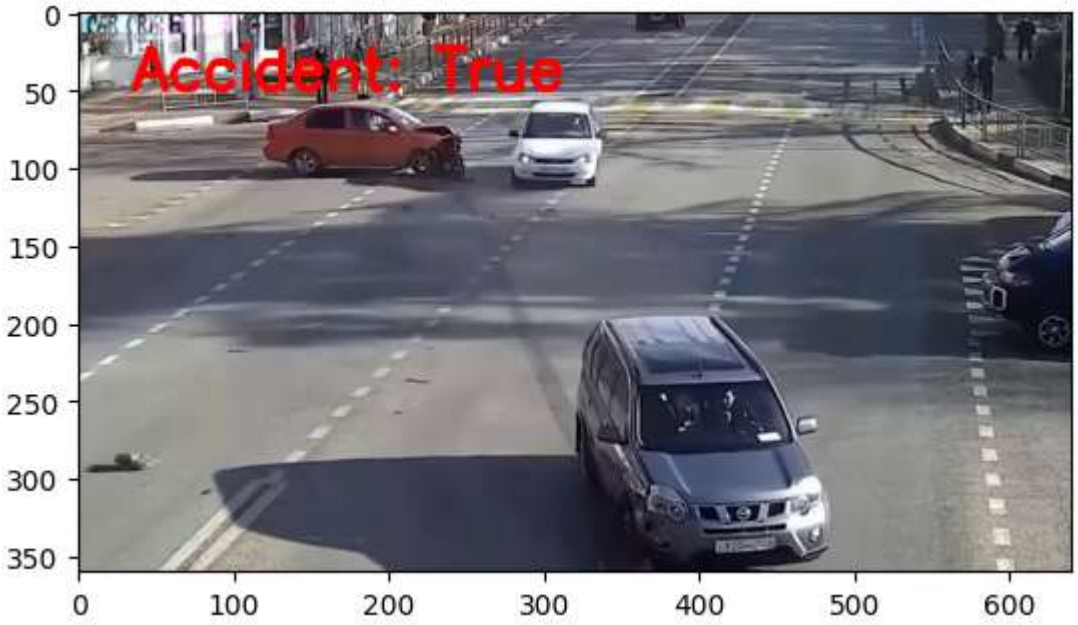

```
1/1 [==============================] - 0s 146ms/step
```



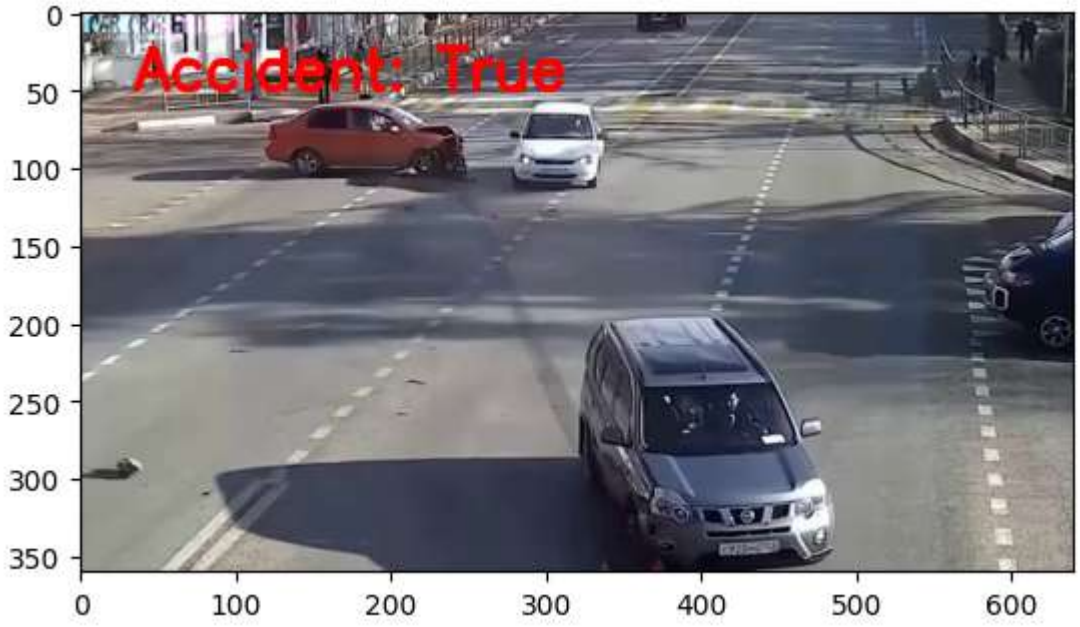
```
1/1 [==============================] - 0s 215ms/step
```



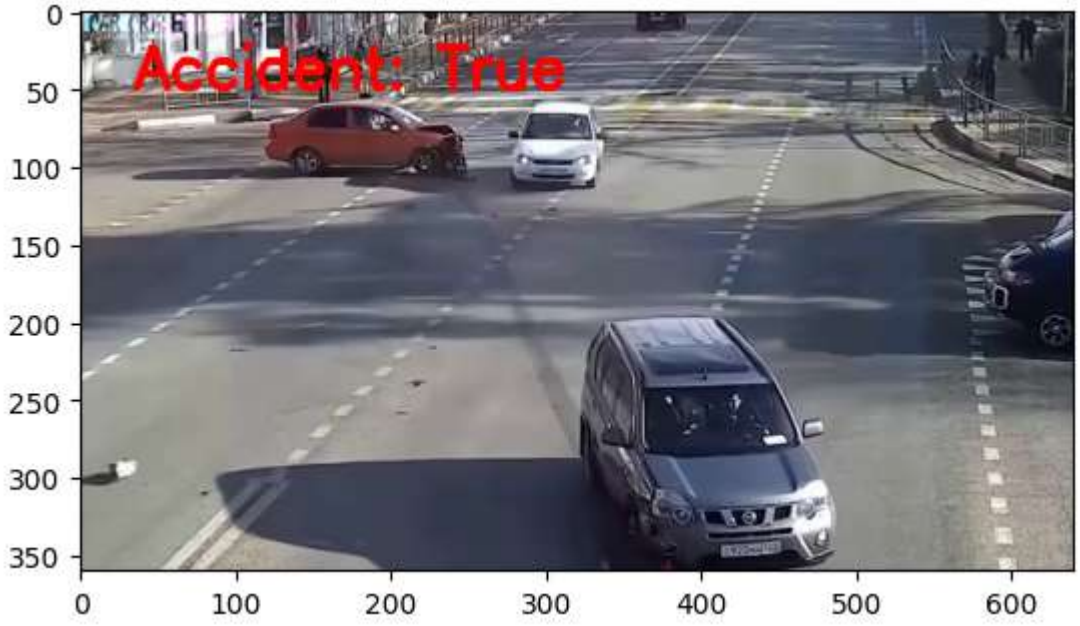

```
1/1 [==============================] - 0s 146ms/step
```



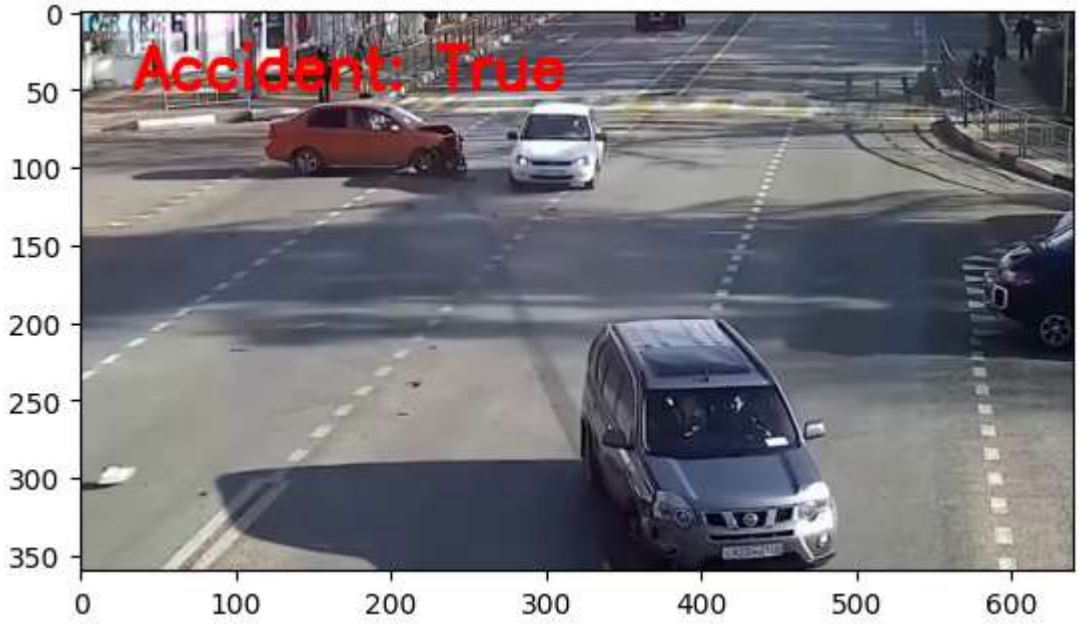

```
1/1 [==============================] - 0s 64ms/step
```



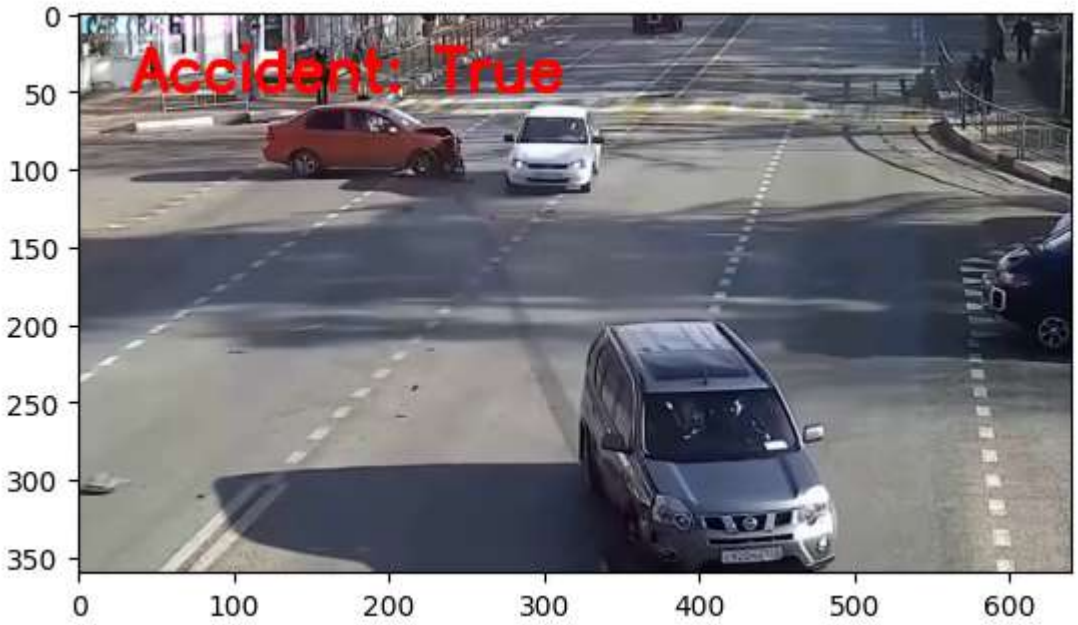

```
1/1 [==============================] - 0s 68ms/step
```



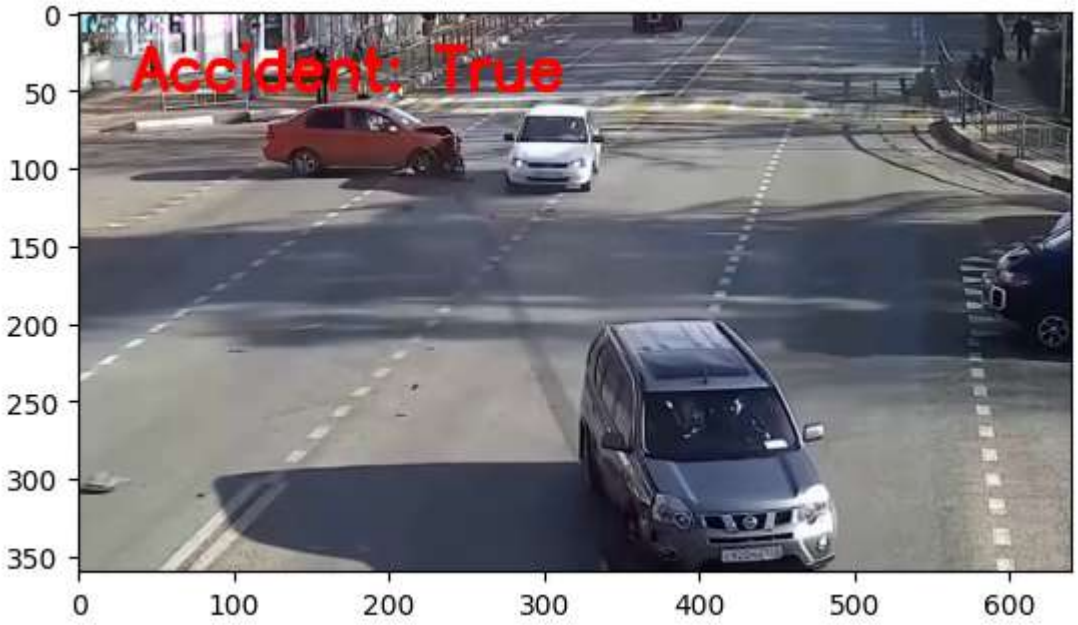

```
1/1 [==============================] - 0s 72ms/step
```



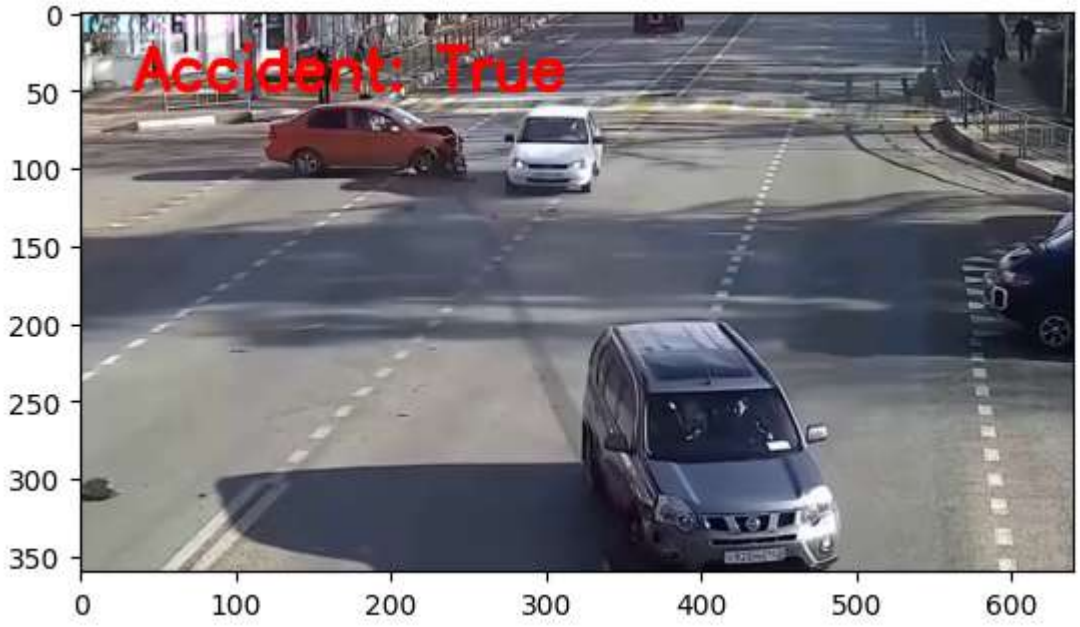
```
1/1 [==============================] - 0s 73ms/step
```



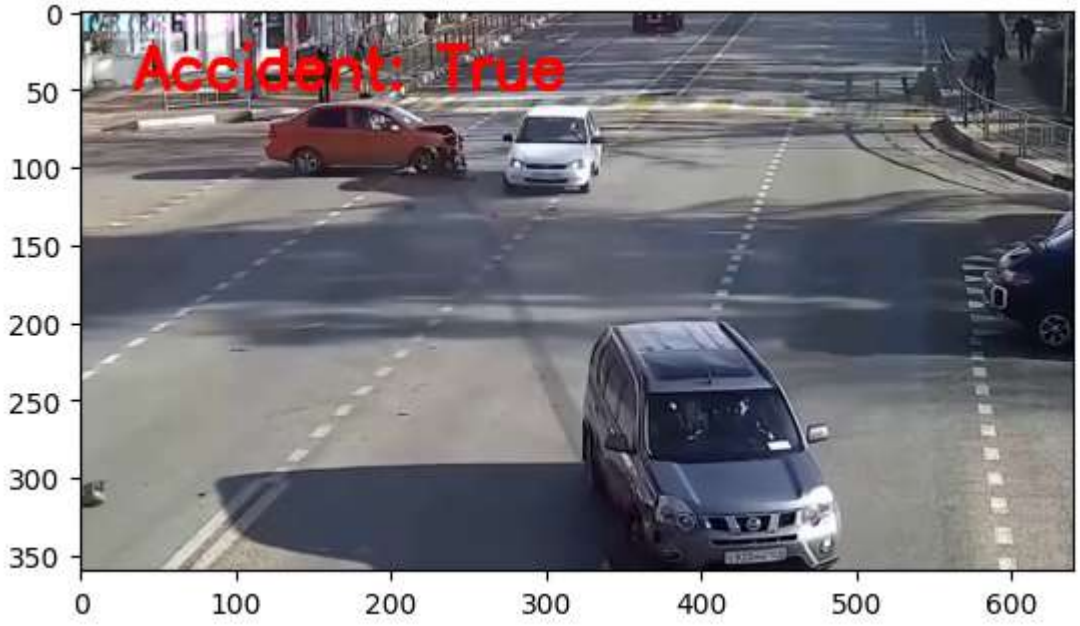

```
1/1 [==============================] - 0s 55ms/step
```



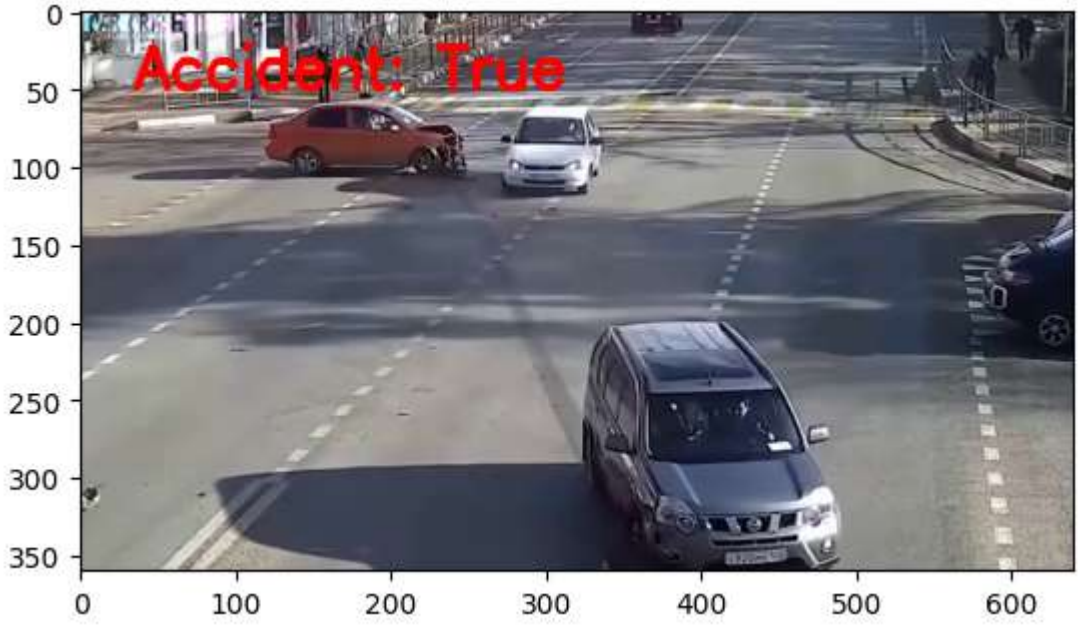

```
1/1 [==============================] - 0s 49ms/step
```



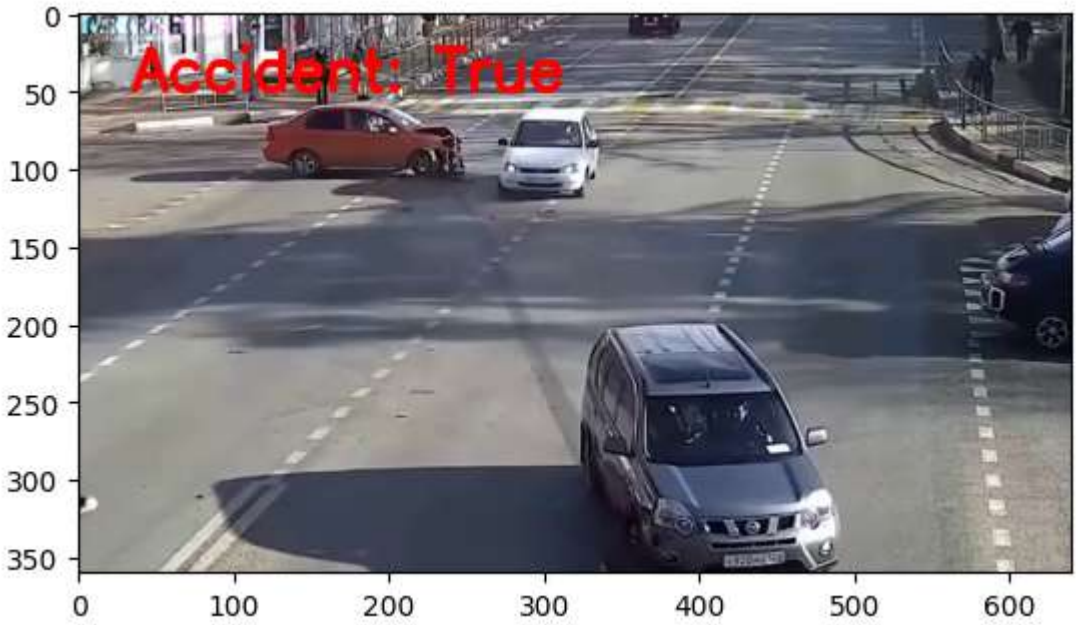

```
1/1 [==============================] - 0s 53ms/step
```



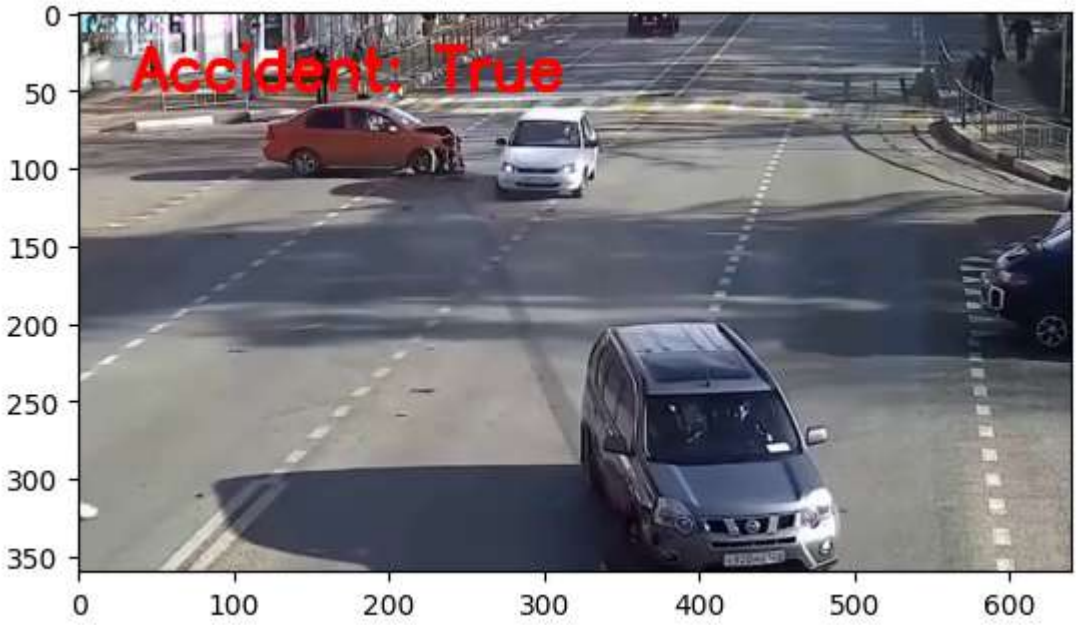

```
1/1 [==============================] - 0s 46ms/step
```



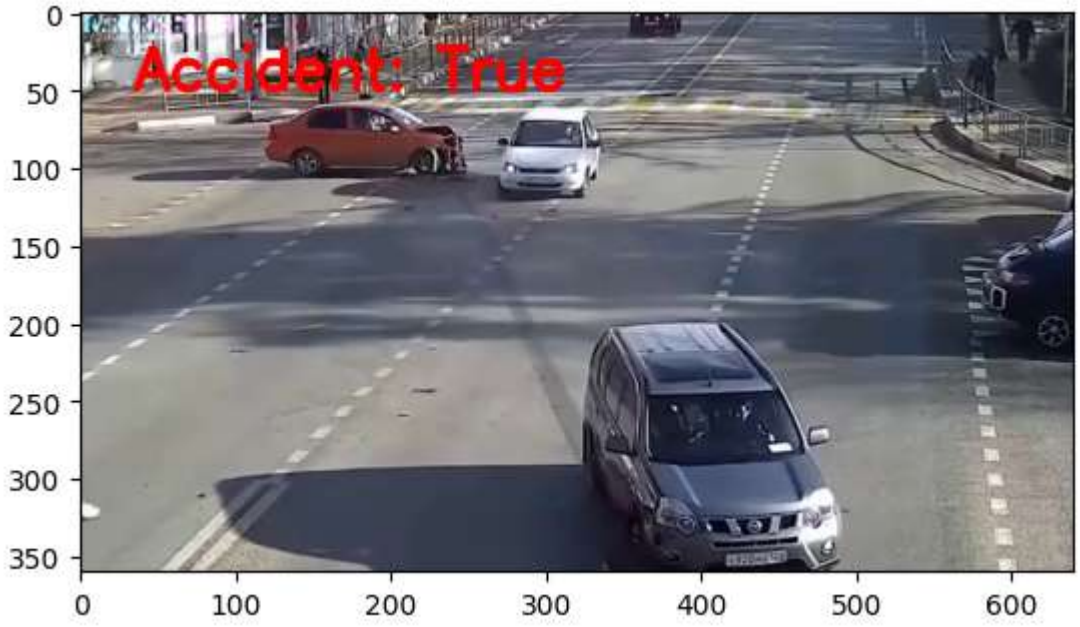
```
1/1 [==============================] - 0s 49ms/step
```



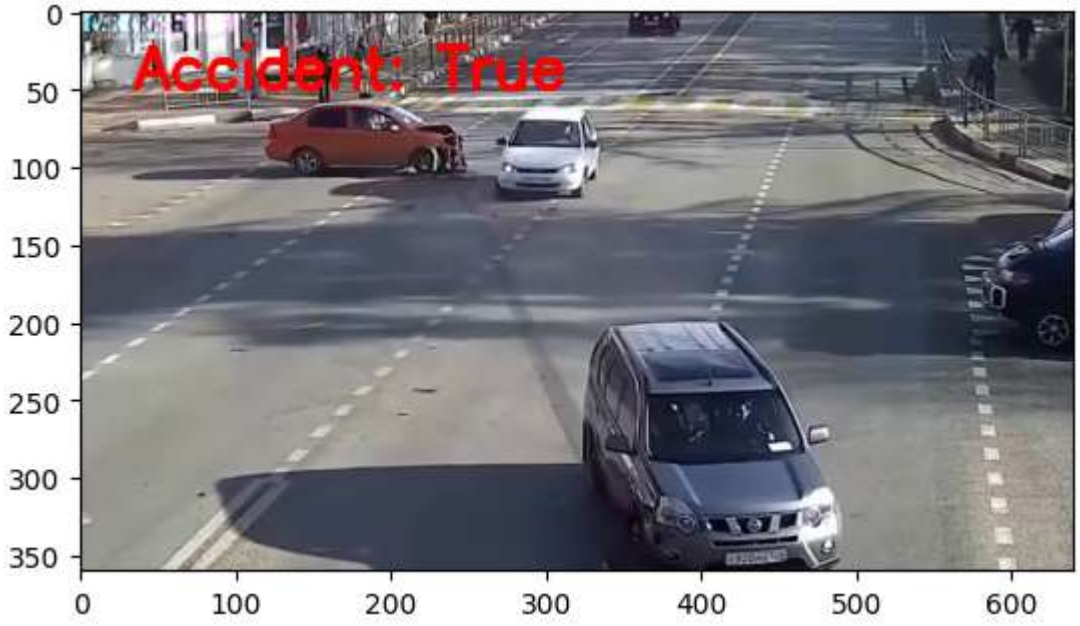

```
1/1 [==============================] - 0s 52ms/step
```




```
1/1 [==============================] - 0s 50ms/step
```




```
1/1 [==============================] - 0s 49ms/step
```




```
1/1 [==============================] - 0s 51ms/step
```