

Connect dataset to drive

```
# from google.colab import drive  
# drive.mount('/content/drive')
```

→ Show hidden output

Upload dataset manually

```
from google.colab import files  
uploaded = files.upload()
```

```
!unzip "India_cars.v1i.yolov5pytorch" -d /content/
```

→ Show hidden output

To Preview dataset

```
import os  
print(os.listdir("/content/"))
```

v5pytorch.zip', 'README.dataset.txt', 'data.yaml', 'test', 'valid', 'train', 'README.roboflow.txt', 'sample_data']

To preview data.yaml

```
!cat /content/data.yaml
```

→ train: ../train/images
val: ../valid/images
test: ../test/images

nc: 2
names: ['Car', 'Truck']

roboflow:
workspace: anagh-sqtru
project: india-cars-ku7fi-ztndz
version: 1
license: CC BY 4.0
url: <https://universe.roboflow.com/anagh-sqtru/india-cars-ku7fi-ztndz/dataset/1>

Verify unzipped path

```
# import os  
# dataset_path = "/content/"  
# print(os.listdir(dataset_path))
```

→ Show hidden output

Train with **YOLOv5s**

```
!git clone https://github.com/ultralytics/yolov5  
%cd yolov5  
!pip install -r requirements.txt
```

>Show hidden output

Now we are ready to train the YOLOv5s model using dataset

```
!python train.py --img 640 --batch 16 --epochs 20 --data /content/data.yaml --weights yolov5s.pt --name india_cars_yo
```

Show hidden output

Now we can test

Upload test image/video manually

```
from google.colab import files  
uploaded = files.upload()
```

Show hidden output

Choose Files test_video.mp4

- **test_video.mp4**(video/mp4) - 12892288 bytes, last modified: 5/13/2025 - 100% done

Saving test_video.mp4 to test_video.mp4

```
!python detect.py --weights runs/train/india_cars_yolov5s/weights/best.pt --img 640 --conf 0.25 --source "test_video.r
```

Show hidden output

View video in Colab

```
from IPython.display import Video  
Video("/content/yolov5/runs/detect/exp/test_video.mp4", embed=True)
```

Download the video

```
from google.colab import files  
files.download("/content/yolov5/runs/detect/exp/test_video.mp4")
```

Show hidden output