

```
!mkdir -p ~/.kaggle
!cp kaggle.json ~/.kaggle/
!chmod 600 ~/.kaggle/kaggle.json
```

```
!kaggle datasets download -d rogersinghchugh/road-damage-detection-yolo-v-11
!unzip road-damage-detection-yolo-v-11.zip -d road_damage_dataset
```

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

```
with open('/content/road_damage_dataset/data.yaml', 'w') as f:
    f.write("""train: /content/road_damage_dataset/train/images
val: /content/road_damage_dataset/valid/images
test: /content/road_damage_dataset/test/images
```

```
nc: 4
names: ['alligator cracking', 'lateral cracking', 'longitudinal cracking', 'pothole']
""")
```

```
%cd /content/yolov5
```

```
!python train.py --img 640 --batch 16 --epochs 50 --data
/content/road_damage_dataset/data.yaml --weights yolov5s.pt --name road_damage_yolo
```

```
!python detect.py --weights runs/train/road_damage_yolo/weights/best.pt --img 640 --source
/content/road_damage_dataset/test/images
```