**Vehicle Detection Project**

**Installation**

1. Install required libraries:

pip install -r requirements.txt

1. Run the project:

python run\_project.py

**Usage**

1. Select an image/video from the dataset or upload your own.
2. Click "Confirm Selection" to process.
3. View results with detected vehicles.

**Folder Structure**

📁 dataset ## Contains sample images/videos

📁 results ## Stores processed images/videos

📄 requirements.txt ## Required Python libraries

📄 run\_project.py ## Main script to launch the GUI

📄 yolo\_vehicle\_detection.py ## Core detection logic

**Required Libraries**

gradio

opencv-python

numpy

matplotlib

ultralytics

Notes

* The processed files are saved in the results/ folder.
* Ensure Python is installed before running the commands.