



## **Assignment for Backend Developer Internship**

### **Objective:**

Build a simple interactive dashboard (UI) focused on vehicle registration data, with the **investor's perspective** in mind. (You can use AI)

### **Your Task:**

#### **1. Data Source**

- Use the public data from [Vahan Dashboard](#)
- Focus on:
  - Vehicle type-wise data (2W/3W/4W)
  - Manufacturer-wise registration data

#### **2. Key Requirements:**

- Display **YoY (Year-over-Year)** and **QoQ (Quarter-over-Quarter)** growth for:
  - Total vehicles by category
  - Each manufacturer
- Build a clean, investor-friendly UI using **Streamlit** or **Dash**.
- Features should include:
  - Date range selection
  - Filters by vehicle category/manufacturer
  - Graphs showing trends and % change

#### **3. Technical Expectations:**

- Use Python for data processing and dashboard development
- SQL for data manipulation (if applicable)
- Document any scraping or data collection steps
- Keep the code modular, readable, and version-controlled (GitHub preferred)

#### **4. Submission Requirements:**

- Record a short **screen recording (max 5 minutes)** explaining:
  - What you built
  - How to use the dashboard
  - Key investor insights you discovered
- Upload the video (YouTube unlisted/Drive link acceptable) and share it with your submission



**5. Final Submission Should Include:**

- GitHub repo or code files
- README with:
  - Setup instructions
  - Data assumptions
  - Feature roadmap (if continued)
- Video walkthrough link

**Bonus:**

Share any valuable investment insight or a surprising trend you noticed while working on the data.

**Time Given-** 10 Days