Forward Deployed Engineer

Overview

Drivers often face emergencies such as **overheating**, **dead batteries**, **flat tires**, or **vehicle stalling**, but the correct response steps are buried inside the owner's manual. Vehicle Owner Manuals provide detailed procedures for handling these situations:

- How to safely **jump-start a discharged battery**, including polarity checks and warnings.

- How to respond to an **overheated engine**, such as pulling over safely, cooling procedures, and critical cautions.

- How to **change a flat tire**, including jack point locations and step-by-step wheel replacement.

Because these procedures are scattered across multiple pages, drivers often struggle to find the correct instructions quickly when under stress.

Build a tool that lets users type an emergency scenario and instantly receive the correct instructions.

Requirements

- UI allowing natural-language emergency descriptions.

- Backend retrieving:

   o   Step-by-step emergency procedures.

   o   Safety warnings and cautions.

   o   Required tools (e.g., jack, wheel spanner, tow hook).

Deliverables

- Demo of the system and executable codebase

- High level overview of the solution

Dataset

https://www.hyundai.com/content/dam/hyundai/in/en/data/connect-to-service/owners-manual/2025/creta&cretanline-Jan2024-Present.pdf (Focus on Part 8)