# Smart Vehicle Diagnostic Mobile Application

## Introduction

Modern vehicles are equipped with sophisticated onboard diagnostic systems that alert drivers to mechanical or electrical issues via dashboard warning indicators. However, many car owners especially those without a technical background struggle to understand the meanings of these signals. Consequently, this often leads to delayed maintenance, worsened faults, and increased repair costs.  
  
With the increasing integration of Artificial Intelligence (AI), machine learning, and mobile technologies, it is now feasible to empower car owners with smart diagnostic solutions directly on their smartphones. By using computer vision and audio recognition, a mobile application can provide quick, reliable, and informative diagnostic leading to better car maintenance and reduced dependency on costly and time-consuming garage visits.

## Stakeholder Identification

Stakeholders are individuals or groups who are directly or indirectly affected by the system and can influence its success. For this project, the key stakeholders include:

* Car Owners:

Primary users of the application. They need simple, clear, and accessible diagnostic tools.

* Mechanics/Car Technicians:

Provide expert knowledge for fault diagnosis and may benefit from less trivial diagnostic cases.

* Automobile Manufacturers:

Indirect stakeholders whose systems are being interpreted by the app.

* Mobile App Developers:

Build and maintain the mobile application.

* Automotive Content Creators (e.g., YouTube Experts):

Their content can be linked to guide users on repairs.

* Project Sponsors or Investors:

Provide funding or resources for development and deployment.