

Scope of Work (SOW)

Project Title: Proof of Concept (POC) for Car Damage Detection

Client:

VROOM Cars

Service Provider:

AtliQ Technologies

1. Project Overview

The objective of this project is to develop a Proof of Concept (POC) for car damage detection that can classify the condition of a car's front and rear into six predefined categories. The solution will be delivered as a trained machine learning model integrated into a Streamlit app. This POC will serve as a foundation for evaluating the viability of an automated damage detection system for VROOM Cars.

2. Problem Statement

Build a POC for detecting car damage based on uploaded car images. The model should classify car damage into six possible categories with an accuracy of at least 75%. The categories are:

1. Front Normal
2. Front Breakage
3. Front Crushed
4. Rear Normal
5. Rear Breakage
6. Rear Crushed

3. Deliverables

1. Trained model for car damage detection along with source code.
2. Accuracy > 75%.
3. Streamlit app where users can drag and drop an image, and it will display the predicted class. The predicted classes are the six categories mentioned above.

4. Budget

Fixed cost: 10,000 USD.

5. Timeline

5 Weeks, Start Date: 20 Jan, 2025

6. Stakeholders

Client:

Nikki Payne (Project Coordinator) - VROOM Cars

Service Provider:

Peter Pandey (AI Engineer)

Tony Sharma (Tech Lead)

Natasha Reddy (Product Manager)