

SMART MECHANIC FINDER

Abstract:

Unexpected vehicle breakdowns can be stressful, especially in areas where finding a mechanic is difficult. Many drivers lack the technical knowledge to diagnose or fix minor issues, making roadside emergencies even more challenging. To address this, we propose Smart Mechanic Finder, an intelligent web-based platform that connects users with nearby mechanics in real-time, ensuring quick and efficient roadside assistance.

Our platform goes beyond simply listing mechanics—it offers an AI-powered self-diagnosis tool, allowing users to describe their issue or upload images/videos for analysis. The system suggests possible causes and minor troubleshooting steps before contacting a mechanic. If professional assistance is required, the platform provides real-time location tracking of available mechanics and their contact details. In case of major issues, users can request a mechanic visit or find nearby vehicle transport services for towing.

To enhance user experience, our system features a repair cost estimator, helping users understand potential expenses before committing to a service. Additionally, mechanics and service providers are rated and reviewed, ensuring reliability and transparency. If a repair requires spare parts, the platform also displays nearby auto shops with part availability and pricing.

For urgent situations, our Emergency SOS feature prioritizes critical breakdowns, notifying the nearest available mechanic for immediate response. Users can also track mechanics in real time, similar to ride-hailing services.

By integrating AI-based diagnostics, real-time tracking, cost estimation, user reviews, and spare parts availability, Smart Mechanic Finder revolutionizes roadside assistance, making vehicle breakdown solutions faster, smarter, and more accessible.

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