

### Abstract

DRIVE-U is an AI-enabled mobility platform designed to address the growing need for trusted, short-term drivers among urban car owners. Traditional driver-hiring options often lack verification, real-time visibility, and transparent pricing, resulting in inconvenience and safety concerns. DRIVE-U solves this gap by connecting users with **RTO-verified drivers** through a secure, cloud-backed system featuring automated trip matching, dynamic pricing, and real-time GPS tracking. The platform ensures accountability through integrated license validation, geo-fencing, and a robust rating-and-feedback mechanism, enabling a transparent and trustworthy mobility experience.

Built with a scalable architecture and a seamless, intuitive user interface, DRIVE-U is engineered for rapid deployment across multiple cities, supporting expansion into subscription models and corporate mobility services. By combining verified driver onboarding with smart allocation and transparent operations, DRIVE-U aims to make personal mobility **safer, faster, and effortlessly reliable** for millions of vehicle owners.

**Keywords:** AI-driven mobility, RTO-verified drivers, short-term driver hiring, real-time GPS tracking, automated trip matching, dynamic pricing, secure cloud platform, driver verification, geo-fencing, user safety, transparent mobility services, scalable deployment, on-demand drivers.