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ABSTRACT

This project introduces a cutting-edge Personalized Vehicle Recommendation System, using machine learning to offer tailored suggestions based on individual preferences. It addresses the challenge of navigating a vast array of car models, aiming to enhance the user experience through a user-centric approach to car selection.

By integrating machine learning, data science, and software engineering principles, the system showcases a seamless blend of diverse technologies, including collaborative filtering and content-based filtering. Real-world datasets are utilized to train and optimize recommendation algorithms, emphasizing relevance to industry trends and advancements in artificial intelligence within the automotive sector. The project focuses on user-centric design principles, providing hands-on experience in implementing various machine learning models and fostering collaboration with industry professionals.

Overall, the Personalized Vehicle Recommendation System project serves as a comprehensive exploration of machine learning technologies, aiming to contribute to advancements in personalized recommendations within the automotive industry while enhancing the overall user experience.

Keywords: Machine learning, car recommendation system, User Preferences, Features, Random Forest