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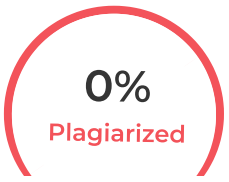
Plagiarism Scan Report



Characters:3021	Words:426
Sentences:21	Speak Time: 4 Min

Excluded URL | None

Content Checked for Plagiarism

CONCLUSION AND FUTURE SCOPE 6.1 Conclusion: In this project, we have developed a Flask web application that provides users with the ability to predict and compare the CO2 emissions of various vehicle models. The application employs machine learning models to make predictions and allows users to compare the specifications of two different vehicles. The following key points summarize our findings and achievements: • Machine Learning Models: We have successfully implemented and integrated multiple machine learning models, including linear regression, ridge regression, lasso regression, and elastic net regression. Users can select a model of their choice to predict CO2 emissions based on input features. • Data Visualization: The application provides data visualization capabilities, allowing users to explore fuel consumption data through interactive line plots. Users can select a make to view the fuel consumption trends for different models from the dataset. • Model Comparison: Users can make informed decisions by comparing the specifications of two different vehicle models. This feature enhances the user's ability to choose a vehicle that aligns with their preferences and requirements. • Error Rate Calculation: The application calculates and presents an error percentage, helping users understand the accuracy of the chosen model's predictions concerning actual CO2 emissions. 6.2 Future Scope: As we conclude this project, we acknowledge the potential for further enhancements and expansion of our web application. Here are some avenues for future development and improvements: • Additional Models: Incorporating more machine learning models and algorithms for CO2 emission prediction can provide users with a wider selection and potentially improve prediction accuracy. • User Authentication: Implementing user authentication and user-specific profiles can enhance user experience and allow users to save and track their predictions and comparisons. • Data Enrichment: Expanding the dataset with additional features and more recent data can further improve the application's accuracy and relevance. This may include factors like vehicle weight, emissions standards, or fuel type. • Real-Time Data Updates: Providing real-time data updates and integration with external APIs for current vehicle information, market trends, and environmental impact data. • Feedback Mechanism: Including a feedback mechanism for users to report inaccuracies in the dataset or provide feedback on the application's usability. • Mobile Compatibility: Optimizing the application for mobile devices and creating a dedicated mobile app for a seamless user experience on smartphones and

tablets. By addressing these future enhancements, the application can evolve into a more comprehensive and user-friendly platform for users seeking to make informed decisions regarding vehicle selection, reducing their environmental footprint, and staying up to date with the latest information in the automotive industry.

Sources