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Patent Search

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Abstract:

This invention aims to develop one such solution by utilizing the FuelNet model, which focuses on predicting and enhancing fuel efficiency in heavy vehicles. By analyzing time data and historical patterns, FuelNet can accurately predict fuel consumption, empowering fleet operators and logistics companies to optimize their operations and reduce operating costs. Compared to traditional manual methods, this AI-powered tool represents a significant improvement, offering adaptability, precision, and a commitment to environmental sustainability in heavy vehicle operations. As the world increasingly emphasizes eco-friendly and cost-effective transportation solutions, FuelNet emerges as a leading technology driving the transport industry towards a greener and more efficient future. By leveraging the power of AI, we can make substantial strides in improving fuel efficiency, reducing emissions, and promoting a more sustainable transportation system.

Complete Specification

Description: The class diagram is used to refine the use case diagram and define a detailed design of the system. The class diagram classifies the actors defined in the use case diagram into a set of interrelated classes. The relationship or association between the classes can be either an "is-a" or "has-a" relationship. Each class in the class diagram may be capable of providing certain functionalities. These functionalities provided by the class are termed "methods" of the class. Apart from this, each class may have "attributes" that uniquely identify the class. , C , C , Claims:

1. We claim that an advanced AI algorithm that outperforms traditional statistical models by considering multiple real-time and historical parameters, resulting in accurate fuel consumption predictions.
2. We claim that an AI model that integrates vehicle-specific data, driver behavior, terrain, weather conditions, traffic congestion, and payload weight, ensuring a tailored approach to fuel prediction.
3. We claim that a FUELNET that detects irregular fuel consumption patterns, identifying potential vehicle issues before they escalate into costly breakdowns, leading to improved vehicle longevity.
4. We claim that a solution that features a simple, intuitive interface suitable for drivers, fleet managers, and logistics companies, with customizable settings to fit specific business needs.

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Department of Industrial Policy and Promotion
Government of India

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