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(57) Abstract :

The present invention relates to a method and apparatus for predicting traffic congestion using machine learning and IoT data. The method utilizes real-time data from various sources, including sensors, GPS devices, and social media platforms, to train a machine learning model that can accurately predict traffic congestion. The apparatus includes a data collection module, a data processing module, a machine learning module, and a notification module. The system processes the collected data to extract relevant features, trains a machine learning model, and sends notifications to users who are likely to be affected by traffic congestion. The model takes into account various factors such as weather, time of day, and traffic incidents to make predictions. The system improves traffic flow and reduces travel times by providing accurate and timely information to drivers, helping them plan their routes and schedules accordingly. The invention has applications in intelligent transportation systems, traffic management, and autonomous vehicles.

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