AI BASED AUTONOMOUS INTERACTIVE SYSTEM FOR SAFE DRIVING

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Abstract:

A contextual AI-based messaging system for incoming messages while driving is a technology that utilizes artificial intelligence to analyze incoming messages and determine the appropriate response based on the context of the message and the current situation of the driver. The goal of this system is to reduce distractions and improve safety for drivers on the road. This system is built on a machine learning model, which is trained on a dataset of messages and driver's situations, allowing it to identify patterns and make informed decisions about whether or not it is safe for the driver to respond to a message. The model is integrated into a messaging application, such as a smartphone messaging app, and sensor data, such as GPS location, is used to determine if the driver is currently driving. When a message is received, it is passed through the machine learning model to determine if it is safe to respond. If the message is determined to be safe to respond, the driver is able to read and respond to the message as usual. However, if the message is determined to be unsafe to respond, the system will automatically respond with a message indicating that the driver is currently unavailable and will respond later. This feature helps to reduce distractions and improve safety for drivers on the road.The system also continuously updates the machine learning model's data with new incoming messages and driver's situations, allowing it to improve its performance over time. Moreover, the system should be designed with user's privacy in mind, to ensure that personal information is protected and not shared without the user's consent. In conclusion, a contextual AI-based messaging system for incoming messages while driving is a valuable tool for reducing distractions and improving safety on the roads. By utilizing artificial intelligence to analyze incoming messages and determine the appropriate response based on the context of the message and the current situation of the driver, this system can help to keep drivers focused on the road and reduce the risk of accidents. Additionally, the system's ability to continuously update its data and improve its performance over time ensures that it is always making informed decisions about the safety of responding to messages while driving.

Keywords:

AI-based messaging system, GPS location, Machine learning model, Sensor data,