**Explanation**

Traditional methods of detecting distracted driving, such as visual observation by law enforcement officers, can be unreliable and inefficient. Therefore, the development of an automated system that can accurately detect distracted driving has become increasingly important.

The solution to this problem lies in the application of machine learning algorithms. Machine learning is a subfield of artificial intelligence that enables computers to learn and improve their performance based on data without being explicitly programmed. In this project, a machine learning algorithm is developed to automatically detect distracted drivers using video data.

The project involves collecting a dataset of video clips of drivers in various distraction scenarios, such as texting, eating, or using their phones while driving. The collected data is then labelled based on whether the driver is focused or distracted, and the machine learning algorithm is trained on this labelled dataset. The resulting model is then capable of detecting distracted drivers in real-time, potentially preventing accidents and saving lives.

In this project, the power of machine learning is harnessed to address a critical issue in transportation safety. The goal is to develop a system that can accurately and reliably detect distracted drivers, providing a more objective and automated approach to reducing the number of accidents caused by distracted driving.