INTELLIGENT SYSTEM FOR VEHICLE ACCIDENT DETECTION AND REPORTING USING IOT

A PROJECT REPORT

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ABSTRACT:

There are lots of advancements in recent technologies. But these advancements have both boon and bane on human life. The first car was assembled by "Carl Friedrich Benz", a German automotive engineer in the year 1885, and earned a patent in the year 1886 which is officially deemed the advent of automobiles. Since the advent of automobiles in the year 1886, the automobile industry had sustained a glorious alteration and advancement. Motorization has perpetually been a 2-sided coin. Even though it has enhanced the lives of many individuals it also led to many casualties due to the high speed and reckless driving. Many people decease in road accidents due to the unavailability of first aid within a shorter time. In any road accident, the first 4-hours are considered the "Golden hours". There will be an enormous surge in the death rate if first aid is bestowed to the casualties within this "Golden hour". The main intent of this project is to furnish an antidote to those deficiencies and empower the required assistance within this "Golden Hour", by compiling information about the accident probabilities. When this analysis meets the required or prescribed norms, an SMS enclosing the geolocation data of the accident site is triggered by the ARDUINO with the aid of the GSM (Global System by Mobile) and GPS (Global Position System) modules. The SMS is sent to the numbers which are stored in the ARM controller, these contacts include the numbers of Ambulance, Police, and their family members. This system assists in lessening the time taken between the occurrence of the accident and the arrival of medical aid to the accident site.