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Patent Search

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Abstract:

Artificial Intelligence and IOT based smart alerting system for electric vehicles in smart cities using Machine Learning Algorithms ABSTRACT Electric vehicle design is one of the most significant areas where the Internet of Things is beginning to show promise as a new platform for wireless technology. It is essential to have electric vehicles on the road to protect the environment from the harm caused by conventional vehicles. Sensors, which are intelligent devices, must be mounted on the exterior of an electric vehicle to achieve this objective at a lower cost. A significant number of people have moved to cities in recent years. By 2030, more than 60 percent of the world's population is expected to reside in urban areas. Moreover, the connections between urban systems such as transportation, communication networks, and economic transactions are becoming increasingly intricate than they always were. These factors have heightened the significance of smart cities and the quick adoption of new technology. The electric automobile is a technology of the present day. If electric vehicles become more prevalent in cities, it might be a huge step toward greening and sustaining cities. However, because electric vehicles are gaining popularity in the transportation industry and require electricity to charge their batteries, their impact on the network cannot be ignored. This chapter examines electric car usage in smart cities. We collect data on how owners of electric vehicles behave using the smart city and Internet of Things platform, and then use a Machine Learning method, one of the machine learning methods, to predict the charge level of electric vehicles when they arrive at the parking lot, the location of the car, and the time the car is connected to the parking lot. This is now feasible because of the development of IoT.

Complete Specification

Description: DESCRIPTIONS

Automobile manufacturing has recently witnessed an increase in innovation. All automakers are currently utilising advances in car manufacturing to produce automobiles that are both intelligent and environmentally friendly. As a result, obsolete engines are being gradually replaced with modern models that emit far less pollution. In this manner, electric vehicles have been developed and equipped with a number of conveniences equivalent to those found in conventional vehicles, but they release substantially less pollution. Diesel and gasoline vehicles are outperformed by electric vehicles in terms of speed, range, and fuel efficiency. In addition, the batteries power these vehicles offer significant advantages for long-distance travel. Users can select the type of battery and check the battery's capacity in relation to the location of the charging station. Since the Global Positioning System is no longer in use, a new system can be utilised to track electric vehicles (GPS). What GPS was meant to do has already been accomplished by wireless sensors, a more recent device. For electric vehicles, sensor technology may become more valuable than GPS. When wireless sensors are embedded into a vehicle's vital components, they may measure battery life, mileage, charge status, and the location of nearby charging stations. Car maintenance is made easier and more convenient for everyone by wireless sensors. All of these sites have the potential to become "smart cities" or "smart villages," and the usage of electric vehicles is only one approach to make the environment more user-friendly. The sensing technology included in these electric vehicles would be extremely handy during rush hour. Due to the fact that the sensor gadget can monitor any traffic situation. If this technology could detect mild heart attacks, it could prevent a great number of terrible events. This new technology has a great deal of potential, but it will never be used in mass-produced automobiles since it is more expensive and must work at higher temperatures. Electric vehicles will have a significantly longer lifespan than internal combustion engine vehicles, and its owners will be able to accomplish a great deal more for significantly less money. The proposed initiative aims to build an IoT-based technique for regulating the cost of charging an electric vehicle.

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Application Details

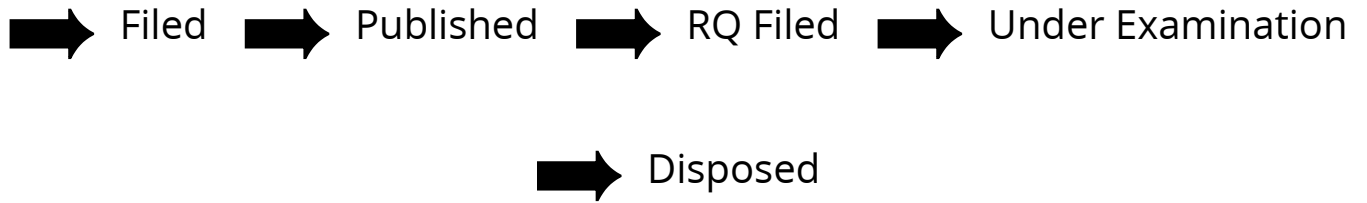
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