IoT BASED CAR PARKING SYSTEM

A project report submitted in partial fulfillment of the requirements
For the award of the degree of

BACHELOR OF TECHNOLOGY
IN
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CERTIFICATE

This is to certify that the project report entitled **"IoT BASED CAR PARKING SYSTEM"** is a bonafide work submitted by **G.TEJA, LMSDPRASAD, L.DURGA PRASAD, P.DURGA PRASADU, P.PAVAN KUMAR** in partial fulfillment of the requirements for the award of degree of

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ABSTRACT

The Project entitled IoT BASED CAR PARKING SYSTEM , The major motivation of this thesis is to reduce the traffic congestion in roads, multi-storeyed buildings and malls due to unavailability of parking spaces .The thesis displays the nearest empty slot if present with respect to user location. Our thesis aims to make efficient use of parking spaces. We track vacant slots in the parking space and assign that to the user. Smart parking system as described above can lead to an error-free ,reliable, secure and fast management system. In recent times the concept of smart cities have gained great popularity. Thanks to the evolution of the Internet of things the idea of smart city now seems to be achievable. Consistent efforts are being made in the field of IoT in order to maximize the productivity and reliability of urban infrastructure. Problems such as, traffic congestion, limited car parking facilities and road safety are being addressed by IoT. The proposed Smart Parking system consists of an on-site deployment of an IoT module that is used to monitor and signalize the state of availability of each single parking space. A mobile application is also provided that allows an end user to check the availability of parking space and book a parking slot accordingly. The paper also describes a high level view of the system architecture. Towards the end, the paper discusses the working of the system in form of a use case that proves the correctness of the proposed model.