

AI enabled car parking using open CV

Date	29.04.2023
Team ID	NM2023TMID18860
Project Name	AI enabled car parking using open CV
Maximum Marks	2 Marks



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A lot of people are not used to the parking management system. As a result, it may be difficult for them to make use of, thereby causing further complications during parking.	For many new users who are not familiar with the parking management system, it could be a little confusing for them to operate at first. This problem, of course, can be overcome with familiarity and a little education. If they ask questions on the operation procedures and are educated on the advantages that come with making use of the system, they get the hang of it with time.	Making use of the parking management system has a lot of advantages for many of the parties involved. But then, it comes with some disadvantages. These disadvantages are reasons why some people have had second thoughts about making use of the parking management system. Nonetheless, these disadvantages are not ones that cannot be handled at any time.	The cost of having a sound, working parking management system is usually high. This is because of the various components that go into making the system work. Components such as the statistical feature, automated ticketing, and statistical reports, and many others make it all expensive. Some organizations may not be able to afford such.	Frustrated
PS-2	For the <u>parking management system</u> to be used, there is a need for a level of knowledge about the building. What happens if that is not available? The system cannot be installed, or installation without knowledge of building structures may lead to dangers and irregularities.	Dealing with this is quite easy as the building's blueprint may be used, or the manager could decide to map out the necessary parts of the building, which deals with the parking area. To get started, you can use a service like Booking Ninja offers	Making use of the parking management system has a lot of advantages for many of the parties involved. But then, it comes with some disadvantages. These disadvantages are reasons why some people have had second thoughts about making use of the parking management system. Nonetheless, these disadvantages are not ones that cannot be handled at any time.	The system is automated; however, it still requires several regular maintenances from the company. This is to ensure that the system is working perfectly and that nothing has gone wrong. The maintenance could be once in months.	Frustrated

Kaviya.T -Team Leader

Studying traffic behavior to predict future events

Utilizing devices such as cameras and sensors to gather the information as mentioned above

Praveen Kumar.P - Team Member 1

Analysis of traffic direction and flow

Recording peak timings

Naveen.P - Team Member 2

Urbanization has exponentially increased with an equal rise in vehicle population in recent years. Hence, this is an optimum time for parking management businesses to set their feet in the market.

Furthermore, the smart system can deliver extensive services and opportunities to the driver's community.

In the future, drivers can find closer parking spots within less time. Furthermore, the biggest perk the invention offers is the "minimum hassle".

The monetary gains are high as the market is still emerging. Hence, anyone with enough guts and an innovative mindset can become the Bill Gates of the AI-based parking management business.

Overall Idea Of Automated Car Parking

Utilizing devices such as cameras and sensors to gather the information as mentioned above

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Empathy map canvas

Use this framework to empathize with a customer, user, or any person who is affected by a team's work. Document and discuss your observations and note your assumptions to gain more empathy for the people you serve.

Originally created by Dave Gray et al.



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Develop shared understanding and empathy

Summarize the data you have gathered related to the people that are impacted by your work. It will help you generate ideas, prioritize features, or discuss decisions.



Need some inspiration?

See a finished version of this template to kickstart your work.

[Open example](#)

