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Batch S1

**Innovation Prototype**

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| Topic : | Parking Slot Availiblity Chekup | |
| Abstract |  | |
| Parking in a busy city can be a frustrating experience for drivers, often causing significant traffic jams. To address this challenge, researchers are exploring the use of automated smart parking systems that leverage computer vision technology. This paper proposes a vision-based smart parking framework to help drivers locate and reserve available parking spots efficiently. Our system first segments the parking area into designated blocks through a calibration process. Then, it analyzes each block to determine if a vehicle is present and informs drivers of the parking status, indicating whether it's free or reserved. This system offers superior performance accuracy compared to existing hardware-based solutions, making it a promising alternative. | | |