Paper-1:

* Automated Vehicle Parking Occupancy Detection in Real-time

What to do?

* For Object Detection RetinaNet one stage detector and region-based convolutional neural networks deep learning techniques are used.
* Web and Mobile-based client application assistance are used to find parking spaces efficiently.
* Dedicated Sensors and Surveillance Cameras for parking space Detection.
* Less installation and maintenance cost.
* External constraints like vehicle type, lightning and weather conditions also focused.
* Microservices Architecture is used.
* Images are saved in Google Cloud.
* For persistent data storage, firebase cloud storage database is used.

**Parking Allocation**

Parking Manager

Local Storage

**Object Detection**



3rd Party Storage

