PROBLEM STATEMENT

TITLE :- Smart and Effective realtime Management of Street Parking

EXPLAIN :-

The "Smart and Effective Real-Time Management of Street Parking" project employs sensor technology and Data Analytics to optimize street parking utilization.

By collecting real-time parking data, it enables efficient allocation of parking spaces, reduces congestion, and provides users with timely availability information through mobile applications. This system aims to streamline urban system parking management, enhancing convenience for drivers and improving traffic flow in urban areas.

PROBLEM Statement Break-Down :-

→ Web Application

→ ML [Machine Learning] such as Computer Vision (CV)

→ Application :- Parking, Street.

→ Technical challenges :

Developing a real-time parking system poses challenges in sensor calibration, Data Transmission, and integration with existing infrastructure requiring robust engineering solutions

→ Infrastructure Limitations :

Retrofitting urban infrastructure with sensors faces power, spaces, connectivity constraints.

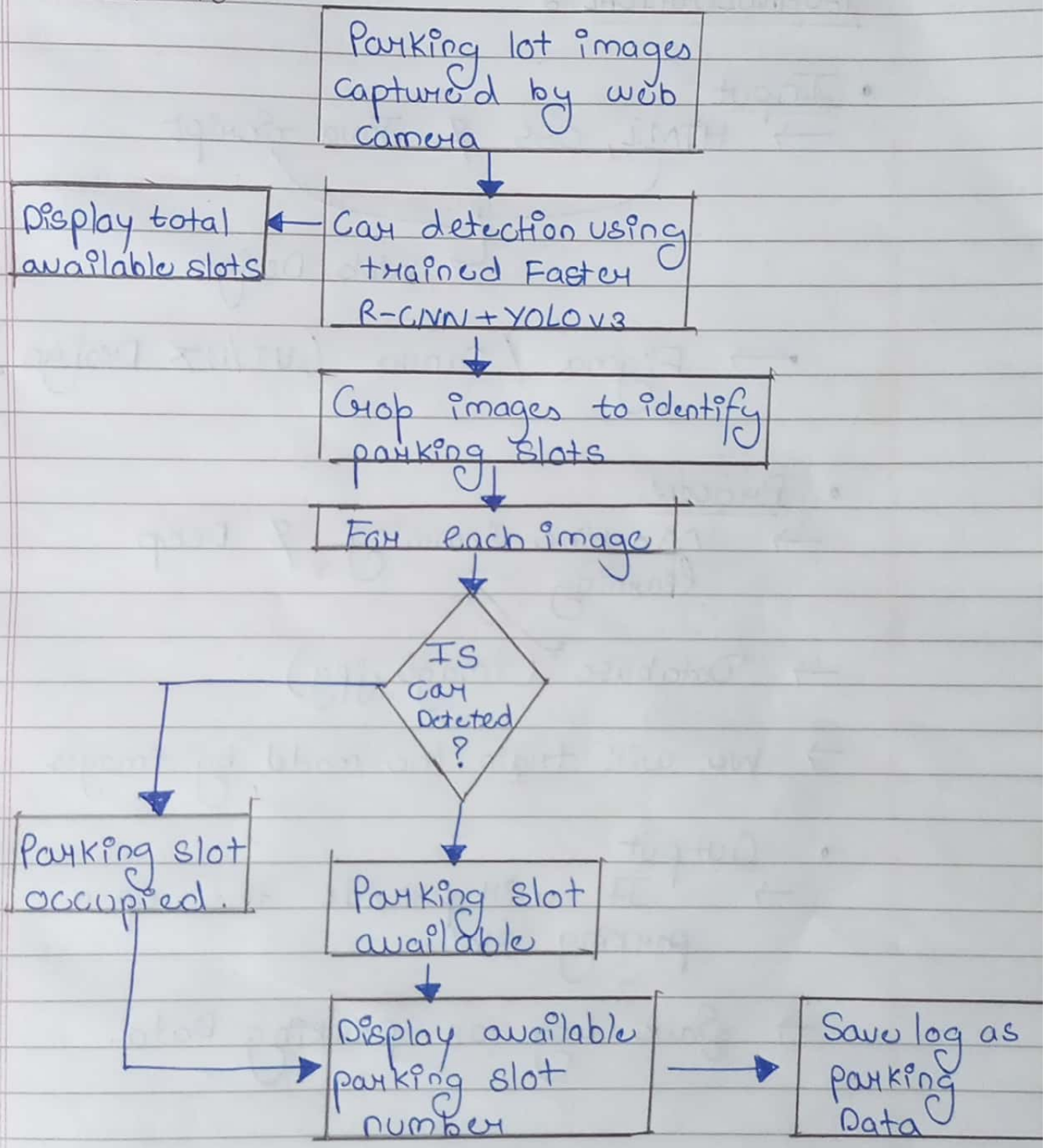
→ Data Management :

Managing real-time parking data demands robust storage processing, security.

Application of the Project :-

→ Urban Centres
→ Commercial Districts
→ Tourist Destination
→ Event venues
→ Residential Communities.

DIAGRAM :-



TECHNOLOGICAL :-

- **Input**
  - → HTML, CSS & Java Script
    - → Web Design.
  - → Figma / Canva (UI/UX Design)

- **Process**
  - → Machine learning & Deep learning
  - → Database (image.jpg)
  - → We will train the model by images.

- **Output**
  - → It will provide the open parking slot.
  - → Save Log as parking Data.

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