

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	12 May 2023
Team ID	NM2023TMID01052
Project Name	Project – “AI Enabled Car Parking Using OpenCV”
Maximum Marks	4 Marks

Technical Architecture:

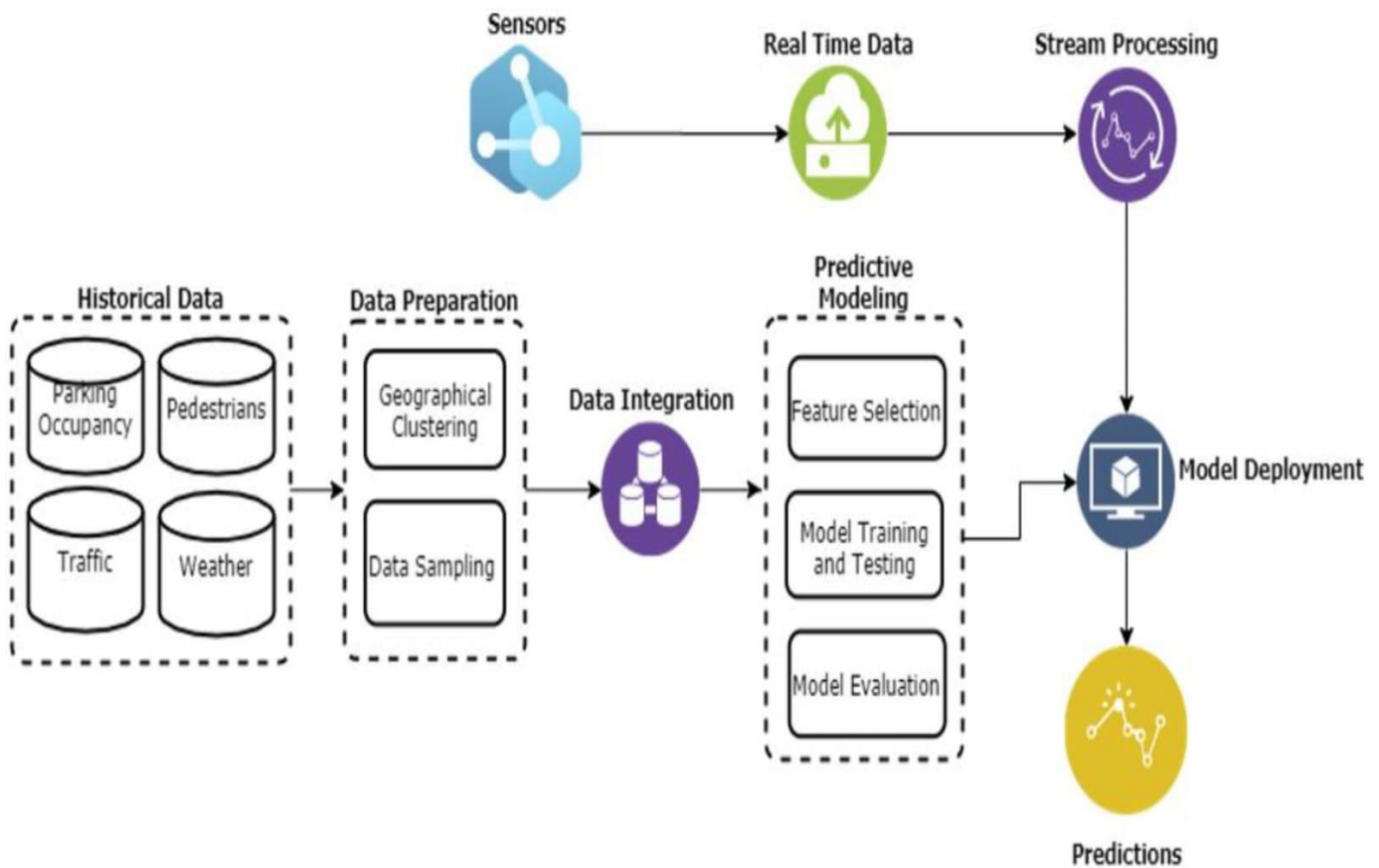


Table-1: Components & Technologies:

S.No Component	Description	Technology
Application Logic-1	Logic for a process in the application	Python
Application Logic-2	Logic for a process in the application	Python Flask
Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
File Storage	File storage requirements	Local Filesystem
Machine Learning Model	Purpose of Machine Learning Model	Predictive Modelling
Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Built on Flask Web Server	Local Server

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
	Open-Source Frameworks	List the open-source frameworks used	OpenCV Framework using Python
	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Flask Security
	Scalable Architecture	Justify the scalability of architecture	Three-Tier Architecture
	Availability	Justify the availability of application	
	Performance	Design consideration for the performance of the application (number of requests per sec etc.)	High Performance