Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	15 November 2023
Team ID	SI-GuidedProject-609493-1700676067
Project Name	Ai Enable Car Parking Using Opencv
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

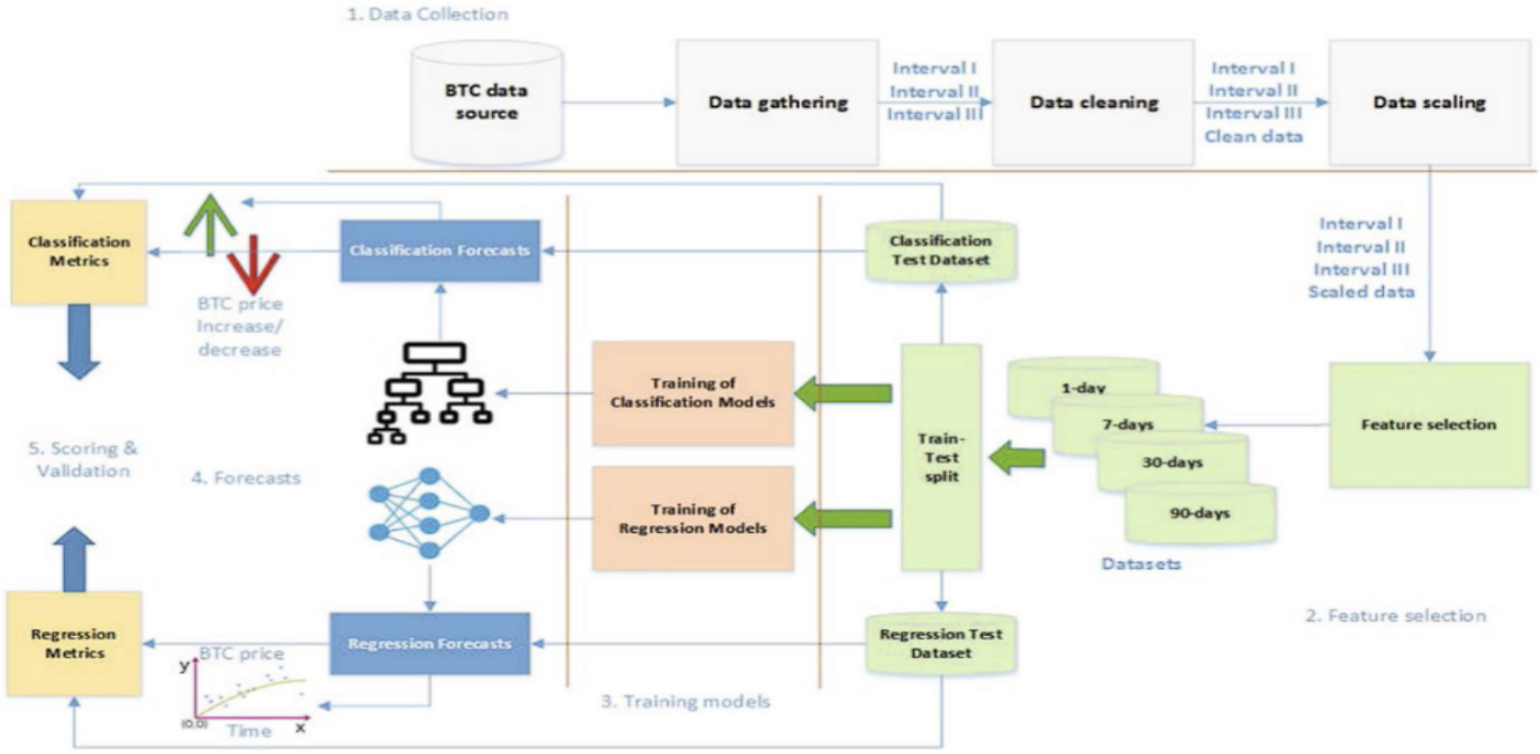

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML, CSS,
2.	Application Logic-1	Build a python code for tracking	Python
3.	Database	Data Type, Configurations etc.	From Kaggle (Dataset), SQL
4.	File Storage	File storage requirements	SQLite etc.
5.	Machine Learning Model	Purpose of Machine Learning Model	Car tracking model
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Streamlit, heroku etc.
7.	Code File	A python code for outputting values by using colab or jupyter	Collab, Jupyter Notebook etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Utilization of Open Source Framework in web	HTML, prophet (pkl), python
2.	Security Implementations	Implementation of security measures and access controls	Encryptions etc.
3.	Scalable Architecture	Design considerations for the code scalability	Using colab and Load balancing

S.No	Characteristics	Description	Technology
4.	Availability	Measures taken to ensure high availability of the web	Load balancers etc.
5.	Performance	Considerations to ensure optimal performance and accuracy	Content Delivery Networks (CDN)