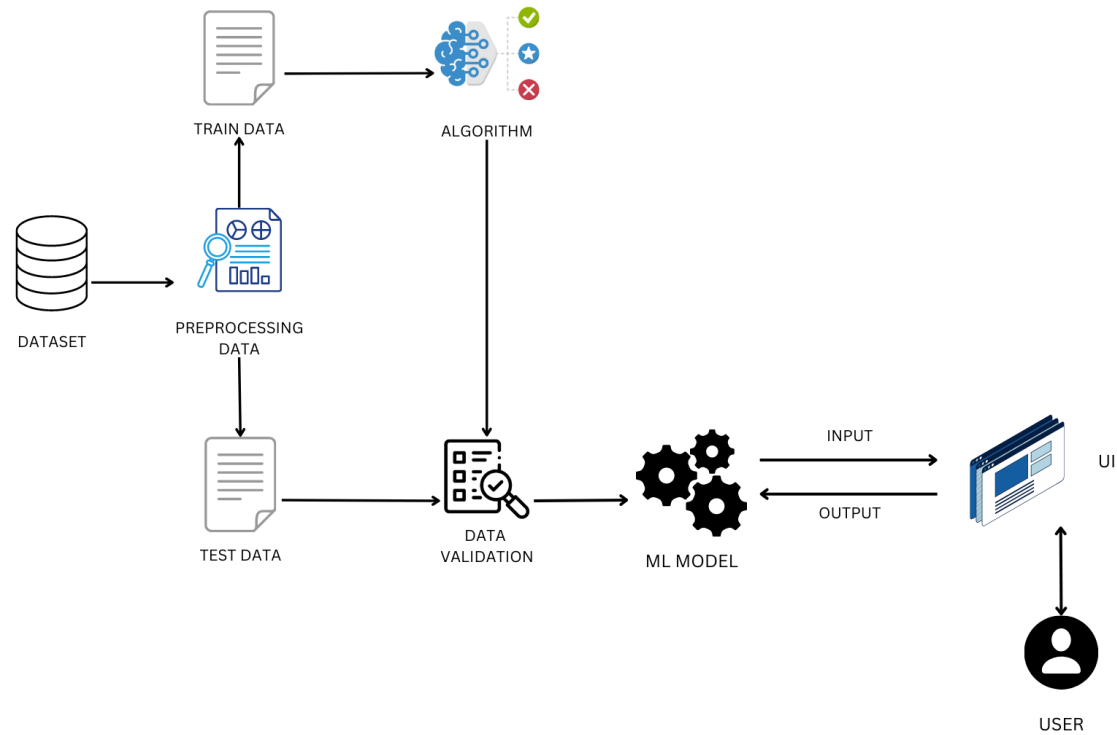


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID35766
Project Name	Project-Car Resale Value Prediction
Maximum Marks	4 Marks

### Technical Architecture:



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application: Web UI	HTML, CSS, JavaScript
2.	Details of Car	How The User Inputs Data About The Car To Be Resold	Python
3.	Database	Data Type, Configurations etc.	MySQL
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
5.	File Storage	File storage requirements	IBM Block Storage
6.	Machine Learning Model	Used for Predicting Car Resale Value	car resale value predictor
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration Cloud Server Configuration	Local

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Web framework built on Python that uses the model-template-views design principle.	Django
2.	Security Implementations	Security of the database and ML model	Encryptions
3.	Scalable Architecture	As a result of the application servers' ability to be installed on numerous machines, increased scalability is the primary benefit of three tier architecture.	Three -tier architecture
4.	Availability	One of the simplest methods to speed up page loads and decrease response times for any web app is to use caching.	Flask-Caching

S.No	Characteristics	Description	Technology
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Flask-caching