

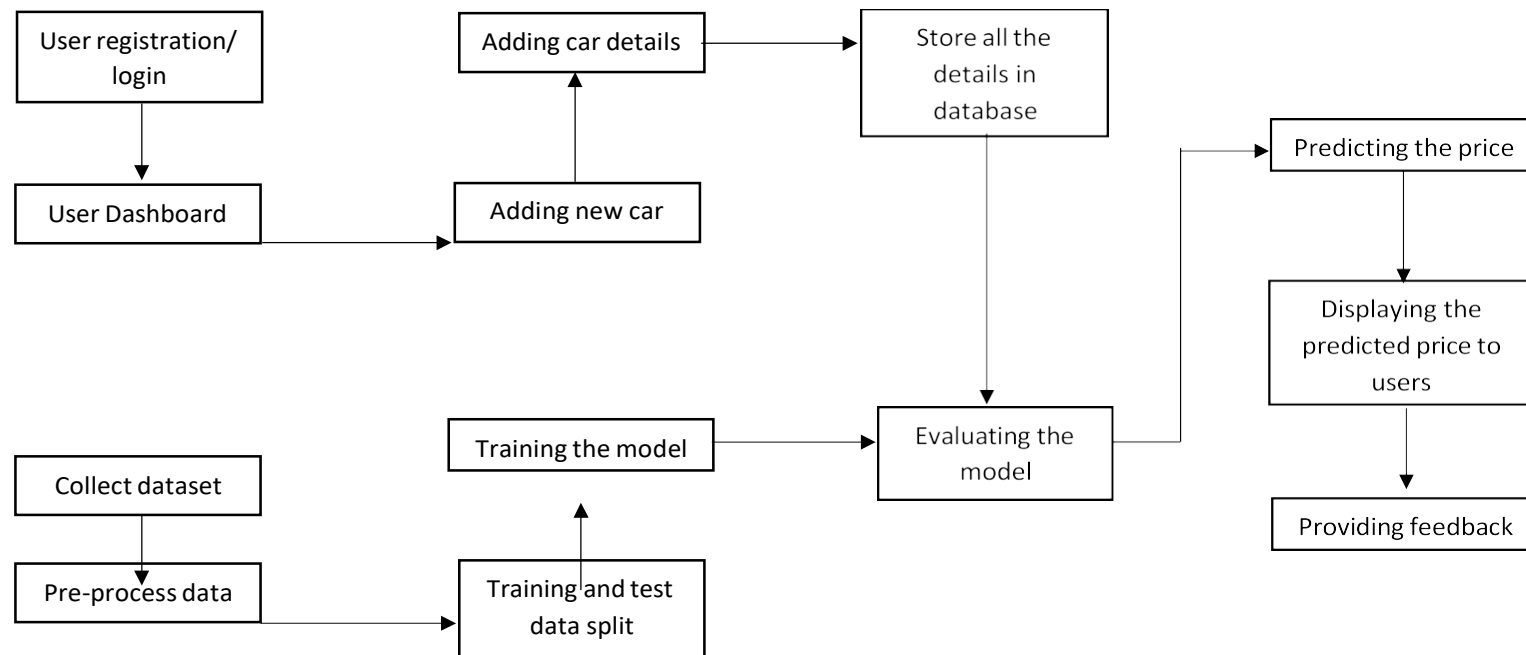
## Project Design Phase-II

### Data Flow Diagram & User Stories

|              |                                       |
|--------------|---------------------------------------|
| Team ID      | PNT2022TMID42137                      |
| Project Name | Project - Car Resale Value Prediction |
| College Name | AVS College Of Technology             |

#### Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



## User Stories

| User Type | Functional Requirement (Epic)            | User Story Number | User Story / Task   | Acceptance criteria   | Priority | Release  |
|-----------|--|-------------------|---|---|----------|----------|
| Admin     | Dataset                                  | USN-1             | Collect the required data for the Car resale prediction.  | Enough data collected for training model                            | High     | Sprint-1 |
|           | Data preprocessing                       | USN-2             | Perform data cleaning to optimize the dataset   | Clean Dataset enough to make correct predictions                    | High     | Sprint-1 |
|           | Training & Building Model                | USN-3             | Build the model using regression algorithms to classify the data  | Model should be predicting prices with acceptable accuracy          | High     | Sprint-1 |
|           | Deploy the model                         | USN-4             | Deployment of ML model using IBM Cloud  | Model should be working fine from the cloud                         | High     | Sprint-2 |
|           | Integrate the web app with the IBM model | USN-5             | Use flask for the integration purpose.  | Model should be easy to use & working fine from the web app.        | High     | Sprint-2 |
| Customer  | Homepage                                 | USN-6             | Details about the application and the car resale process  | I can get an idea about the app                                     | Medium   | Sprint-2 |
|           | Registration                             | USN-7             | As a user, I can register for the application by entering my email, password, and confirming my password. | I can access my account / dashboard                                 | High     | Sprint-3 |
|           |  | USN-8             | As a user, I will receive confirmation email once I have registered for the application                   | I can receive confirmation email                                    | High     | Sprint-3 |
|           | Login                                    | USN-9             | As a user, I can log into the application by entering email & password                                    | I can login to my account   | High     | Sprint-3 |
|           | Dashboard                                | USN-10            | As a user, I can add new cars and get access to insert and update their details                           | I can add new cars  | Medium   | Sprint-4 |
|           | Car Details                              | USN-11            | As a user, I should give the car details like car model, engine and fuel type, etc...                     | Car details should be accepted & taken for further processing       | High     | Sprint-4 |
|           | Car Price                                | USN-12            | As a user, I can view the current rate of the used car price  | Car Prices must be shown based on the predicted result by the model | High     | Sprint-4 |