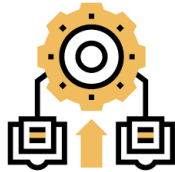


Project Design Phase-II
Technology Stack

Team ID	PNT2022TMID10653
Project Name	CAR RESALE VALUE PREDICTION



Data preprocessing and model training



Save the trained model and fitted min max scaler



Build the website using HTML and CSS, Flask



Receive the features using POST METHOD



Predict the price by the trained model



Scale the features by loading the scaler and convert them into dataframe



Show the result into the webpage



deploy model

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	A website where the user interacts	HTML, Python ,Flask
2.	Data Pre-process	Pre-processing of the dataset	Pandas, Numpy
3.	Prediction	Resale value Prediction	Python models
4.	Cloud Database	Database Service on Cloud	IBM Cloud
5.	Machine Learning Model	ML model for predicting prices	Regression Model

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	open-source frameworks used for development	Python, Flask, Python Libraries
2.	Security Implementations	User Authentication	SHA-256 Encryption
3.	Scalable Architecture	The 3-tier architecture (Web, Application, Database) is scalable.	IBM Cloud
4.	Availability	Application made available even under heavy load	IBM Cloud - cloud hosting
5.	Performance	Able to handle multiple requests	IBM Cloud - load balancers