Team-ID-592870

Team Members : Ashlin Binshu , Dipanshu Mandal , Arnab Ghosh

Table-1 : Compenents & Technologies

S.No	Component	Description	Technology
1.	User Interface	Flask-powered web interface application.	ReactJS , Tailwind – Frontend Python (Flask) - Backend
2.	Application Logic - 1	Input data retrieval logic	ReactJS -> Python (Flask Server)
3.	Application Logic – 2	Forward data to machine learning model logic.	Python
4.	Application Logic – 3	Utilize a relevant machine learning model to predict the desired outcome.	Python
5.	Application Logic - 4	Retrieve data from the machine learning model logic.	Python
6.	Application Logic - 5	Code to serve output data to the user using internal API	Python
7.	Database	Data used for prediction	MS Excel (CSV format)
8.	Machine Learning Model	A supervised machine learning model for predicting the car purchase	Python , Jupyter Notebook
9.	Server	Web Hosting	Vercel

Table-2 : Application Characteristics

S.No	Component	Description	Technology
1.	Machine Learning	Used for creating the prediction model	Python Libraries like Sklearn
2.	Data Pre-processing Tools	Used for EDA and data preprocessing	Python Libraries like Like numpy , pandas , matplotlib , seaborn
3.	User Interface	A user-friendly UI	ReactJS , Tailwind – Frontend Python (Flask) - Backend
4.	Availability	Ease for the user to access the web app	Web hosting platforms like vercel are used to host the app which contains its own load balancing feature
5.	Scalability	Deploying the application on cloud infrastructure for scalability and perfromance	Web hosting platforms like vercel are used