

CAR PRICE PREDICTION



TEAM -3

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Description:

Car price prediction project involves building a machine learning model that can predict the price of a car based on various features such as company, model, year of manufacture, mileage, fuel type, and other relevant factors. This type of project can help for both car buyers and sellers, as it can help them estimate the fair market value of a car.



LANGUAGES :

FRONTEND:



BACKEND:



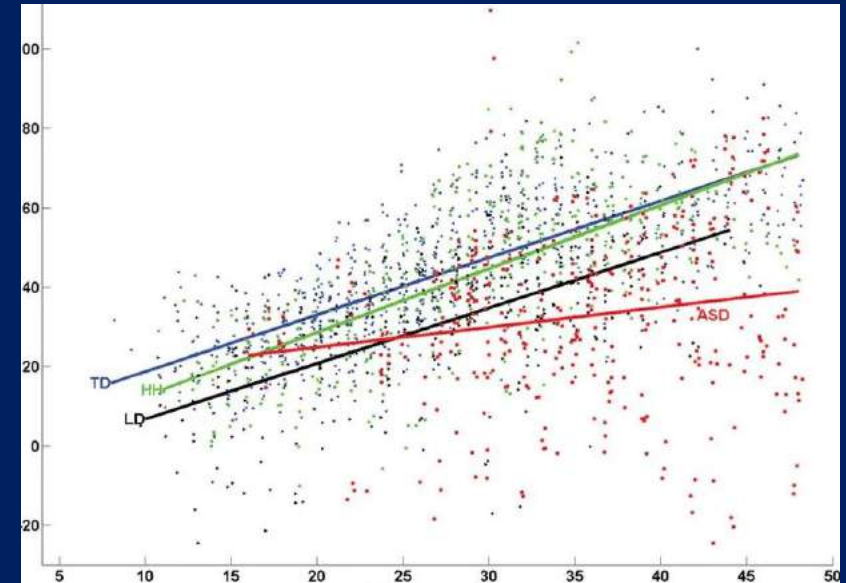
DATA SET

- Cars data set

REGRESSION

❖ Multiple Linear Regression :

Multiple regression is a **statistical technique that can be used to analyze the relationship between a single dependent variable and several independent variables**. The objective of multiple regression analysis is to use the independent variables whose values are known to predict the value of the single dependent value.



MULTI LINEAR REGRESSION FORMULA:

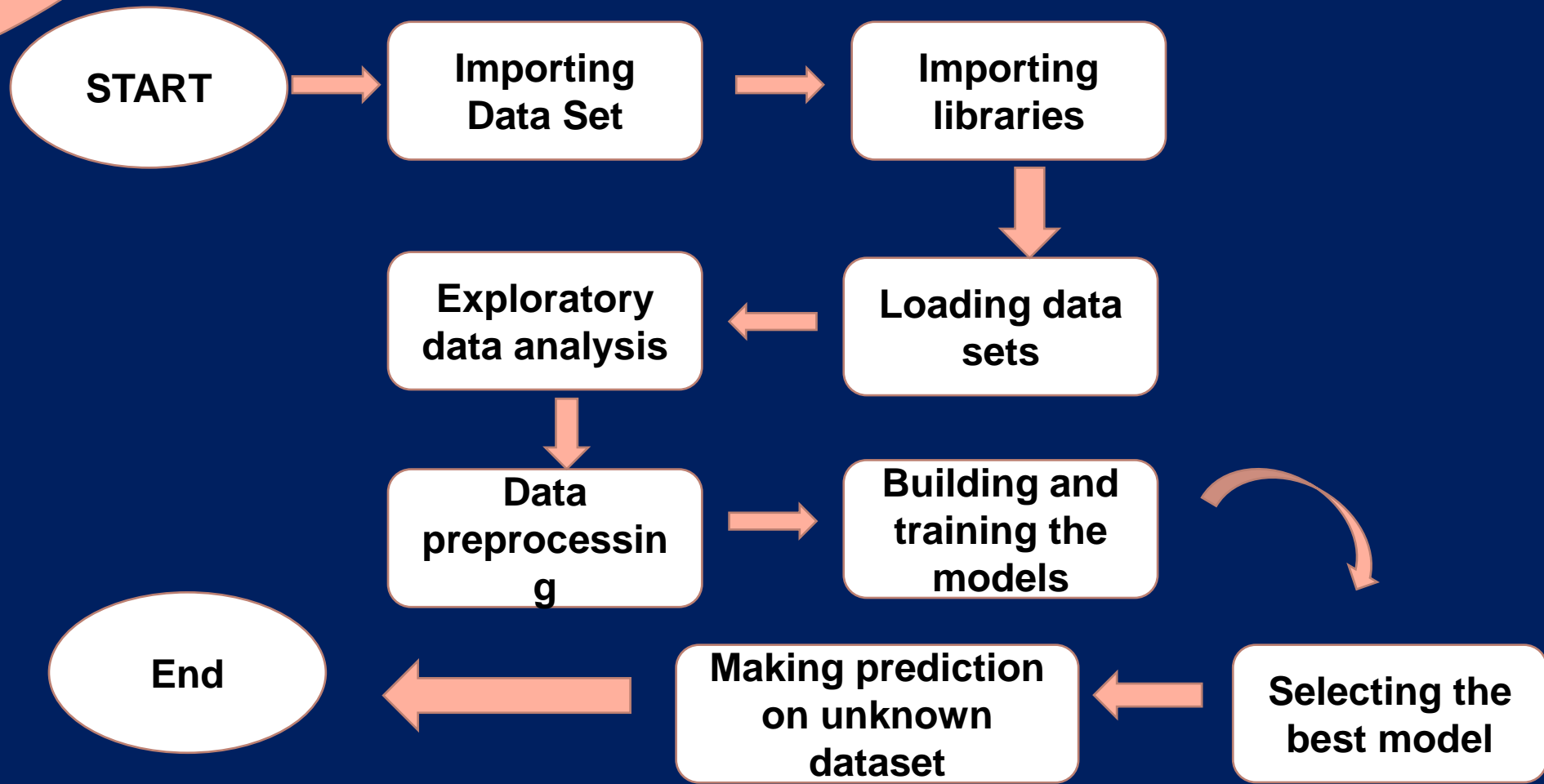
$$Y = Mx_1 + Mx_2 + Mx_3 + Mx_4 + \dots Mx_n + c$$

Where :

- Y= the dependent variable of the regression
- M= slope of the regression
- X₁=first independent variable of the regression
- x₂=second independent variable of the regression
- x₃=third independent variable of the regression
- C = constant



FLOW CHART



Sample Data set of cars:

	A	B	C	D	E	G	H	K	L
1		price	brand	model	year	mileage	color	state	country
2	0	6300	toyota	cruiser	2008	274117	black	new jersey	usa
3	1	2899	ford	se	2011	190552	silver	tennessee	usa
4	2	5350	dodge	mpv	2018	39590	silver	georgia	usa
5	3	25000	ford	door	2014	64146	blue	virginia	usa
6	4	27700	chevrolet	1500	2018	6654	red	florida	usa
7	5	5700	dodge	mpv	2018	45561	white	texas	usa
8	6	7300	chevrolet	pk	2010	149050	black	georgia	usa
9	7	13350	gmc	door	2017	23525	gray	california	usa
10	8	14600	chevrolet	malibu	2018	9371	silver	florida	usa
11	9	5250	ford	mpv	2017	63418	black	texas	usa
12	10	10400	dodge	coupe	2009	107856	orange	georgia	usa
13	11	12920	gmc	mpv	2017	39650	white	california	usa
14	12	21000	chevrolet	1500	2018	22000	black	tennessee	usa

UI PAGE

CAR PRICE PREDICTION

127.0.0.1:5000

WELCOME TO CAR PRICE PREDICTOR

Enter your Requisites

Company: Ambassador ▾

Model: ▾

Year: 1992 ▾

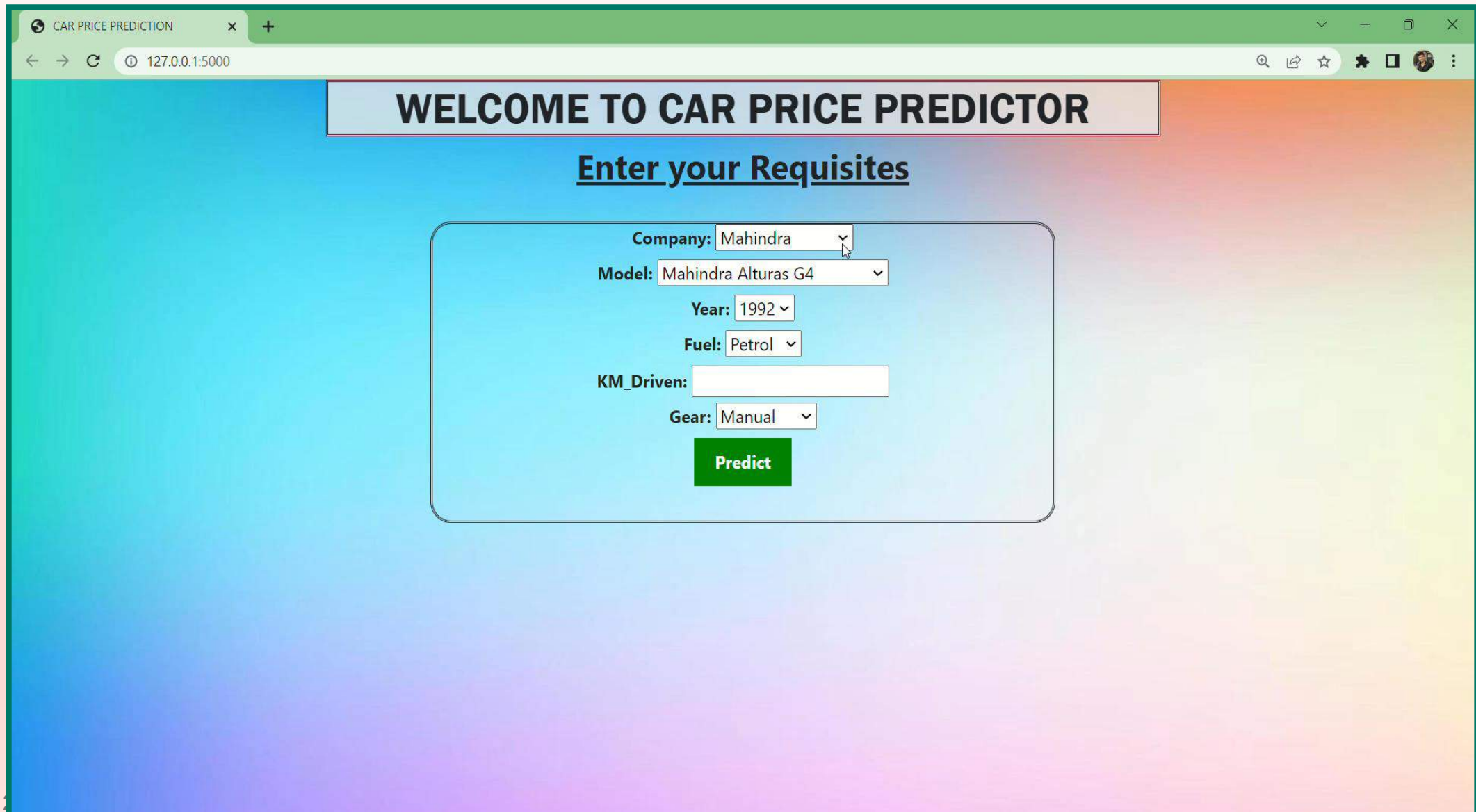
Fuel: Petrol ▾

KM_Driven:

Gear: Manual ▾

Predict

WORKING OF PROJECT



The screenshot displays a web browser window with a single tab titled "CAR PRICE PREDICTION". The address bar shows the URL "127.0.0.1:5000". The main content area has a blue-to-orange gradient background. At the top, a white box contains the text "WELCOME TO CAR PRICE PREDICTOR". Below this, the text "Enter your Requisites" is displayed in a bold, black, sans-serif font. A rounded rectangular form contains several input fields: "Company:" with a dropdown menu showing "Mahindra", "Model:" with a dropdown menu showing "Mahindra Alturas G4", "Year:" with a dropdown menu showing "1992", "Fuel:" with a dropdown menu showing "Petrol", "KM_Driven:" with a text input field, and "Gear:" with a dropdown menu showing "Manual". A green "Predict" button is located at the bottom of the form.

CAR PRICE PREDICTION

127.0.0.1:5000

WELCOME TO CAR PRICE PREDICTOR

Enter your Requisites

Company: Mahindra

Model: Mahindra Alturas G4

Year: 1992

Fuel: Petrol

KM_Driven:

Gear: Manual

Predict

FUTURE ENHANCEMENT

- ❖ We will be able to provide a new feature to upload DATASETS whatever the user wants
- ❖ This time we will update our user interface by taking new features like Airbags(for user safety), Milage , car color , Engine CC ,Reverse Gear Camera and many more which will be able to predict the available cars and its models according to the user criteria.
- ❖ We will make to predict the best accurate price.



Thank
you!

