AI Week Predictions

*Please note that the data I am using to predict is fake data.

About the data.

The data provided is data of the number of cars in a small street in Laval near Montreal. The street has 70 households and the number of cars we have taken into account is 100. We have the Cars Make name, Drive Type, Body type, Used or New while purchasing it, Kms driven in a given year.

Questions and their relevant answers.

Introduction

Why are you doing this experiment?

This experiment is a part of AI weeks learnings. As a part of AI, it's important that we know how to predict. Prediction is the basis of AI. Every single robot or machine that uses AI has been doing some kind of predictions. So, it's important that we know how to do those predictions.

What is it you are looking in your experiment? (Target data to predict, expected result)

What I am looking to predict in this data that I have is that I am trying to find out what types of cars do people own who are living in the street in Laval. More specifically the body type of the cars owned and the drive type.

Introduce your dataset: What is particular about it? Does it have a fundamental flaw?

Car Make	Car Body	Drive type	Used/New	Km per Annum
Toyota	SUV	4x4	New	10000
Nissan	Sedan	ALLWEEL	Used	20000
Fiat	HatchBack	ALLWEEL	New	15000
Acura	Sedan	4x4	used	30000
Alfa	SUV	ALLWEEL	New	12000
Audi	HatchBack	4x4	New	10000
BMW	HatchBack	ALLWEEL	New	4000
Bentley	Crossover	FrontWheel	Used	15000
Buick	SUV	RareWheel	used	20000
Buick	Sedan	4x4	used	10000
Buick	HatchBack	ALLWEEL	New	20000
BMW	Sedan	FrontWheel	used	30000
Audi	SUV	RareWheel	New	20000
Acura	Sedan	4x4	New	20000
Fiat	HatchBack	4x4	New	12300
Nissan	Crossover	4x4	Used	12345
Toyota	Crossover	ALLWEEL	New	54321
Toyota	SUV	FrontWheel	New	43211

Nissan	SUV	RareWheel	New	32111
Fiat	SUV	RareWheel	used	21111
Audi	SUV	ALLWEEL	used	11111
Fiat	HatchBack	ALLWEEL	used	12222
Acura	Sedan	FrontWheel	used	13333
Buick	SUV	FrontWheel	new	31111
Toyota	HatchBack	RareWheel	new	32222
suzuki	SUV	RareWheel	used	20000
Toyota	SUV	ALLWEEL	used	20000
Nissan	HatchBack	ALLWEEL	used	20000
Bentley	SUV	FrontWheel	used	2000
Acura	Crossover	4x4	used	10000
Toyota	HatchBack	4x4	New	10000
BMW	Crossover	4x4	used	39999
Buick	HatchBack	4x4	used	20000
Nissan	SUV	FrontWheel	used	20000
suzuki	Sedan	FrontWheel	used	13000
Acura	Sedan	FrontWheel	used	40000
Alfa	suv	4x4	used	20000
Audi	Sedan	4x4	new	20000
BMW	HatchBack	4x4	used	30000
Fiat	SUV	FrontWheel	used	20000
Acura	Sedan	ALLWEEL	used	25000
Alfa	HatchBack	ALLWEEL	new	25000
Audi	SUV	ALLWEEL	new	25000
Nissan	SUV	ALLWEEL	used	23000
Toyota	SUV	4x4	used	12000
suzuki	SUV	4x4	used	23000
Nissan	HatchBack	4x4	used	24000
Toyota	HatchBack	4x4	new	25000
Acura	HatchBack	FrontWheel	new	24333
Toyota	SUV	FrontWheel	used	23422
Nissan	SUV	FrontWheel	used	25633
Toyota	SUV	FrontWheel	Used	12400
Toyota	SUV	ALLWEEL	used	32000
Nissan	SUV	ALLWEEL	used	32333
Nissan	SUV	4x4	used	5433
Nissan	SUV	4x4	used	24566
Acura	SUV	4x4	used	2000
Acura	Crossover	4x4	new	30000
	Crossover	ALLWEEL	new	41000

Audi				
Toyota	Crossover	ALLWEEL	new	20000
Nissan	Crossover	RareWheel	new	14200
Alfa	Crossover	RareWheel	used	23100
Audi	Crossover	FrontWheel	new	12000
Bentley	SUV	FrontWheel	used	31000
BMW	SUV	ALLWEEL	used	23100
Buick	SUV	4x4	New	21999
Nissan	SUV	4x4	used	32999
Fiat	SUV	4x4	used	13000
Fiat	Crossover	ALLWEEL	used	20000
Nissan	Crossover	ALLWEEL	used	23444
Toyota	Crossover	ALLWEEL	used	32400
Acura	Crossover	ALLWEEL	used	3200
Acura	Crossover	4x4	New	34000
Toyota	SUV	4x4	New	34312
BMW	SUV	4x4	Used	23000
Buick	Crossover	4x4	used	21222
Toyota	Crossover	ALLWEEL	new	25444
Nissan	Crossover	ALLWEEL	new	23000
Fiat	SUV	ALLWEEL	used	25444
suzuki	SUV	ALLWEEL	used	25333
Bentley	SUV	4x4	used	21333
Audi	Crossover	4x4	new	30222
Alfa	Crossover	4x4	new	31000
Bentley	Crossover	ALLWEEL	used	32000
Toyota	SUV	FrontWheel	used	32555
Nissan	SUV	FrontWheel	new	2333
Acura	Crossover	RareWheel	used	32222
Toyota	Crossover	RareWheel	used	21111
Nissan	SUV	RareWheel	used	15222
Toyota	Crossover	FrontWheel	new	12000
Acura	Crossover	ALLWEEL	used	54000
Audi	SUV	ALLWEEL	used	20999
Bentley	Crossover	ALLWEEL	used	21000
Toyota	SUV	4x4	used	18000
	SUV	4x4	used	18900

Audi				
Acura	SUV	4x4	used	12000
Bentley	SUV	FrontWheel	used	30042
Toyota	SUV	FrontWheel	used	15233
Toyota	SUV	RareWheel	used	25000

The fundamental flaw as far as I am concerned is that the limited amount of data. Apart from that I believe that the data are pretty straight forward.

Evaluating the Data

What value did you use to quantify the result?

The results were quantified by the percentages as a value.

How did you separate your test dataset from the training one?

The need to separate the data from the training one did not occur.

Did you use any particular tool to visualize the result?

Nope. I did not use any particular tool for it. I manually calculated the data using a calculator as the data sample was pretty small. This is not the

Example of the obtained results

65% used cars

35% new cars

35% 4x4

31% All Wheel

21% Front Wheel

12% Rare Wheel

47% SUV

10% Sedan

27% Crossover

15% Hatch back

Recommendation:

Comment on my result!

The comment on my results is that 65% of the cars on this street were used when it was bought. It is also quite clear that most cars on this street are either all-wheel drive or 4x4.

How to improve the model

As of the moment it's not necessary or needed to improve the model however if the need changes we will continue to monitor and do the need full.

Do you think it's worth improving any more

As of the movement its not worth improving the model any more.