Case study

An analysis on Innoson Motors

Link to notebook.

Problem Statement:

Analyse data on Innoson Vehicle Motors

The problem

- What is the Innoson vehicle price range?
- What is the average price of an IVM car?
- Which vehicle is the most expensive?
- Which vehicle is the least expensive?

What is the Innoson vehicle price range?

The price range of an Innoson Vehicle ranges from ₦3.52 million to ₦27.825 million.

	Name	Price range
1	Innoson FOX	₦3.52 - ₦3.85 million
2	Innoson UMU	₦3.63 - ₦3.96 million
3	Innoson G5	₦6.38 - ₦6.82 million
4	Innoson G6	₦6.6 - ₦7million
5	Innoson G80 (aka Innoson G Wagon)	₦27,825,000
6	Innoson G40	₦17,325,000
7	Innoson Carrier 4×4	₦6.49 million
8	Innoson Carrier 4×2	₦6.05 million
9	Innoson 5000	₦5.28 - ₦6.93million
10	Innoson 6601	₦11.44 million
11	Innoson 6857	₦24.2 million
12	Innoson 6800	₦13.31 million

What is the average price of an IVM car?

```
[56]
# The average car price

print("The average cost of purchasing an IVM car is approxiamtely ", int(data["Average price"].mean()), "
million Naira.")
```

```
The average cost of purchasing an IVM car is approxiamtely  11  million Naira.
```

The average cost of purchasing an IVM car is approximately 11 million Naira.

Which vehicle is the most expensive?

```
# The most expensive vehicle

print("The most expensive Innoson vehicle is ", data[data["Average price"] ==data["Average price"].max()]
["Name"][0], " which costs ", data["Average price"].max(), " million Naira.")
```

```
The most expensive Innoson vehicle is  Innoson G80 (aka Innoson G Wagon)  which costs  27.825  million Naira.
```

The most expensive Innoson vehicle is Innoson G80 (aka Innoson G Wagon) which costs 27.825 million Naira.

Which vehicle is the most expensive?

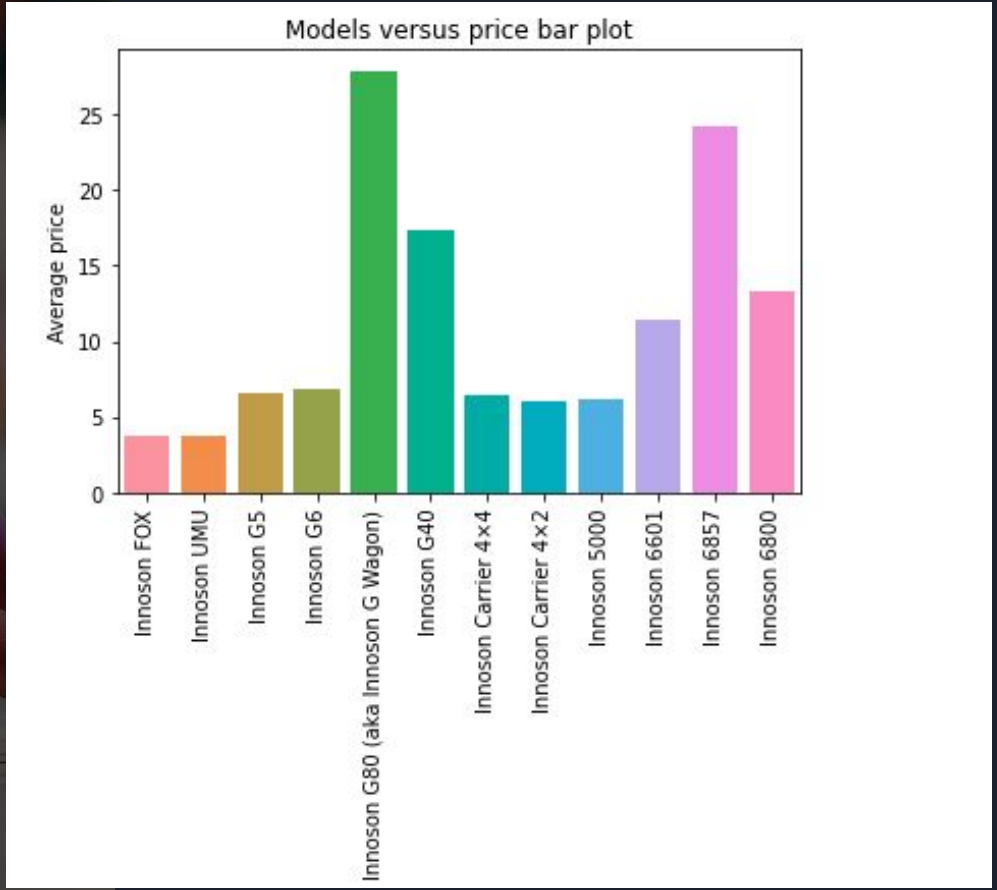
```
# The least expensive vehicle

print("The least expensive Innoson vehicle is ", data[data["Average price"] ==data["Average price"].min()]
["Name"][0], " which costs ", data["Average price"].min(), " million Naira.")
```

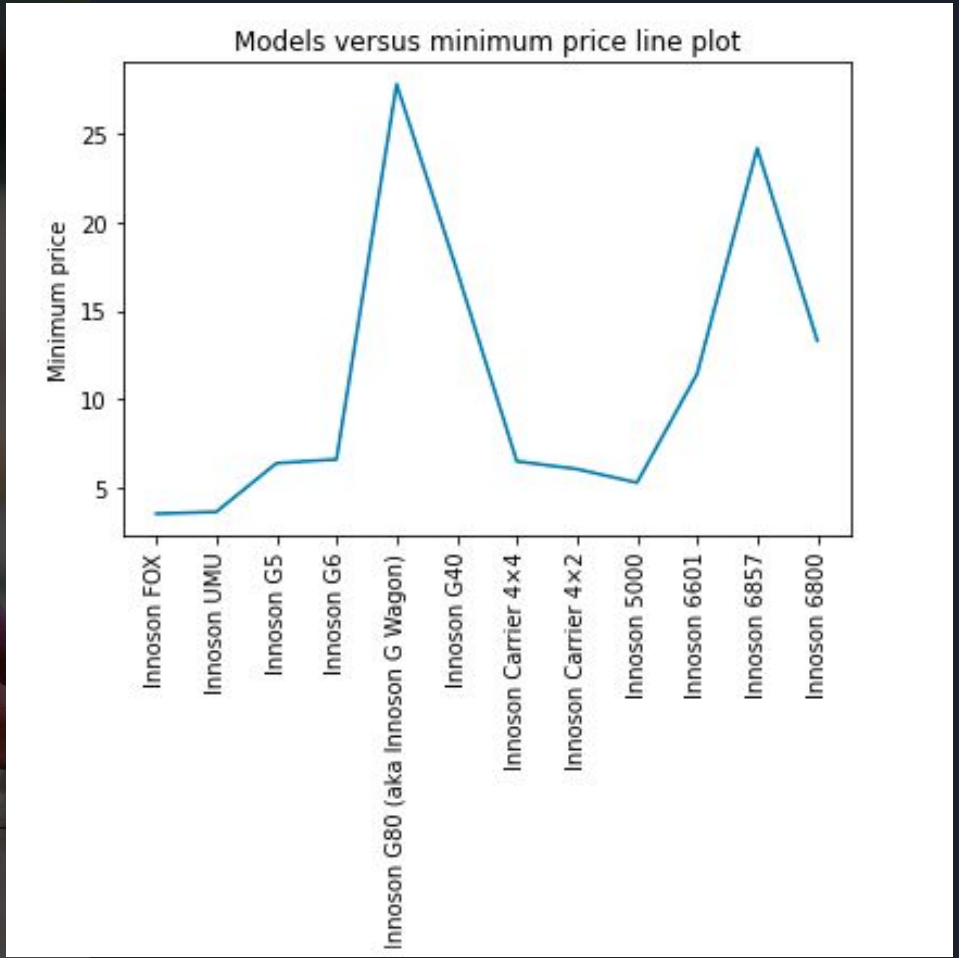
```
The least expensive Innoson vehicle is  Innoson FOX  which costs  3.685  million Naira.
```

The least expensive Innoson vehicle is Innoson FOX which costs 3.685 million Naira.

Data Visualizations



Data Visualizations



Data Analysis Process

Collection

Data Collection

The data used for this analysis was scrapped from a website (which would be cited later on) using python.

Cleaning

Data Cleaning

The data was cleaned using python 's pandas library.

Analysis

Data Analysis

The actual analysis was also done using pandas.

Visualization

Data Visualization

The data visualization was done using python' s matplotlib and seaborn.

Technologies Used

- Python
- BeautifulSoup
- Requests
- Pandas
- Matplotlib
- Seaborn
- Datacamp workspace

References

- Image source: https://www.innosonvehicles.com/caris/
- Website used: https://naijauto.com/market-news/innoson-motors-price-list-2018-288