dashboard-sales-analysis

A sales analysis dashboard built with streamlit and plotly for data science project

Screenshot

Dashboard

Dataset

I have used dataset of Supermarket sales from Kaggle.

https://www.kaggle.com/aungpyaeap/supermarket-sales

Live Demo

You can see the live demo, here.

How to run

```
 $ git clone https://github.com/sanchit36/dashboard-sales-analysis.git
$ cd dashboard-sales-analysis
$ pip install -r requirements.txt
$ streamlit run app.py
```

About the analysis

I am going to analyse the supermarket-sales dataset from Kaggle. In particular, I am interested in relationships between some of the variables as well as differences between certain characteristics of some of the variables regarding the Revenues. In particular, I would like to explore the following questions:

- Is there a connection between Gender and Customer type?
- Is there a connection between Gender and Product Line? Do the sexes prefer different product types?
- Is there a connection between Gender and Cities? Do the sexes distribute themselves differently among the cities?
- Is there a connection between Gender and Payment? Do the sexes differ in their chosen payment method?

Figure 1 - Gross Income vs Gender

Shows that **Females** contribute more to the total gross income for the supermarket sales.

Figure 2 - Gross Income vs Customer Type

We have two types of the customer

- Member
- Normal

Chart shows that **Members** contribute more to the total gross income for the supermarket sales and in Members Gender **Female** contribute more to the total gross income.

Figure 3 - Gross Income per Product line

We have 6 different types of the product line.

- Health and beauty
- Electronics accessories
- Food and beverages
- Fashion accessories
- Sports and Travel
- Home and lifestyle

We have a 2 face bar graph plot in this figure, **faced by Customer type and group by Gender**

- **Food and beverages** generates the most gross income in female that are members
- **Heath and Beauty** generates the most gross income in male that are members
- **Electronics accessories** generated the most gross income in female that are normal
- **Sports and Travel** generated the most gross income in male that are normal

Figure 4 - Gross Income vs City

We have 3 different types of the City.

- Yangon

- Naypyitaw
- Mandalay

This bar plot shows that

- That all the cities generate almost the same amount of the gross income
- Naypyitaw **Females** generate more sales than **Males**
- Other two cities gender is distributed almost equally

Figure 5 - Payment type vs Gender

We have 3 different types of the Payment types.

- Cash
- E wallet
- Credit card

The pie chart below shows

- All the payment types is almost equally distributed
- **35.4% Females** payed using **cash**
- **35.5% Males** payed using **E wallet**

Figure 6 - Ratings per Product line

The 6 face bar chart below shows

- distribution of rates between Customer types of the different cities