**Product Sales Analysis with**

College code: 0001

**Machine Learning**

**Phase 4**

**Team Members:**

Diya Arshiya S (202115033) [diya.arshiya@gmail.com](mailto:(diya.arshiya@gmail.com))

Dhivyadharshini S K (2021115030) [dhivyadharshini0907@gmail.com](mailto:dhivyadharshini0907@gmail.com)

Mukesh Raja K (2021115065) [mukeshrajatmr2021@gmail.com](mailto:mukeshrajatmr2021@gmail.com)

Mukilarasan V (2021115066) [mukilarasan.v@gmail.com](mailto:mukilarasan.v@gmail.com)

Karthik V (2021115321) [karthiksk9360@gmail.com](mailto:karthiksk9360@gmail.com)

**Table of Contents**

1. Introduction

2. Visualization

3. Output

4. Insights

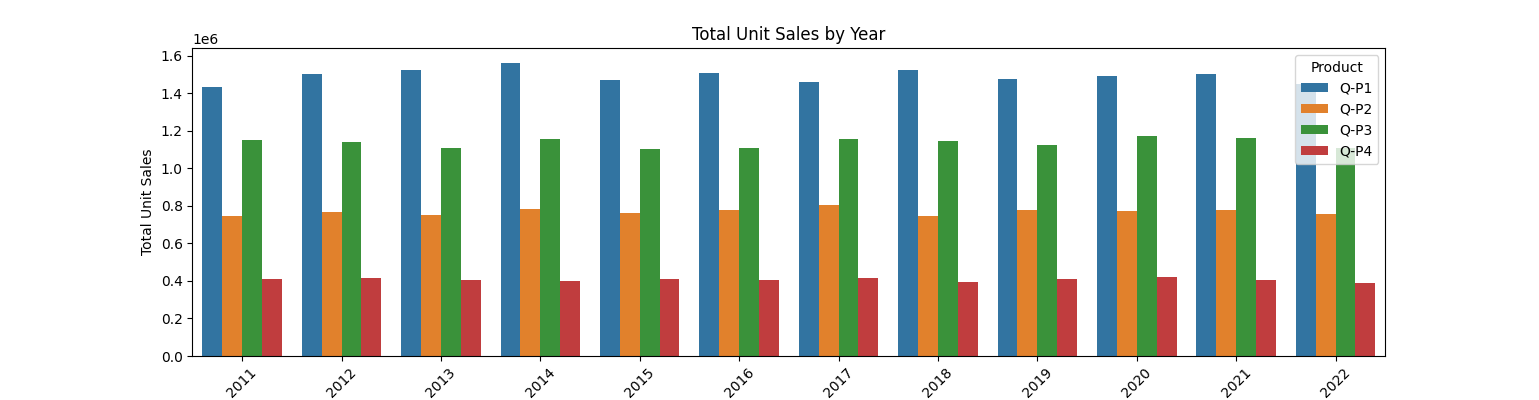
5. Conclusion

**Introduction**

The purpose of this report is to document the data analysing performed on the dataset contained in the "statsfinal.csv" file. Data analysing is a crucial step in data analysis. It gives the visualized form of data.

**Visualization**

**Total Unit sales of products P1, P2, P3, P4 from 2011 to 2022**

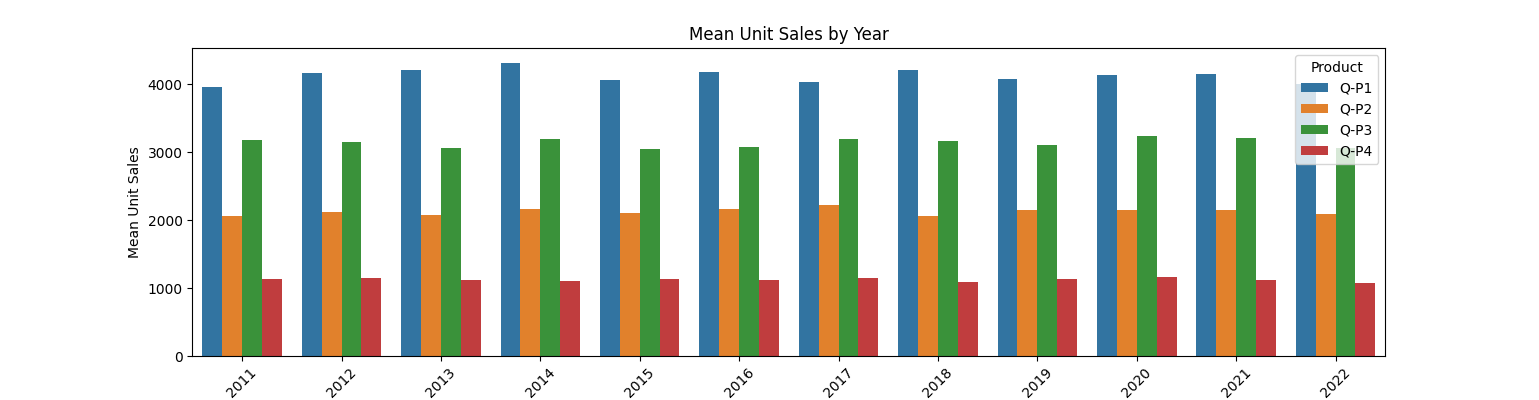
****

**Insights**

Total unit sales have been relatively consistent from 2011 to 2022.

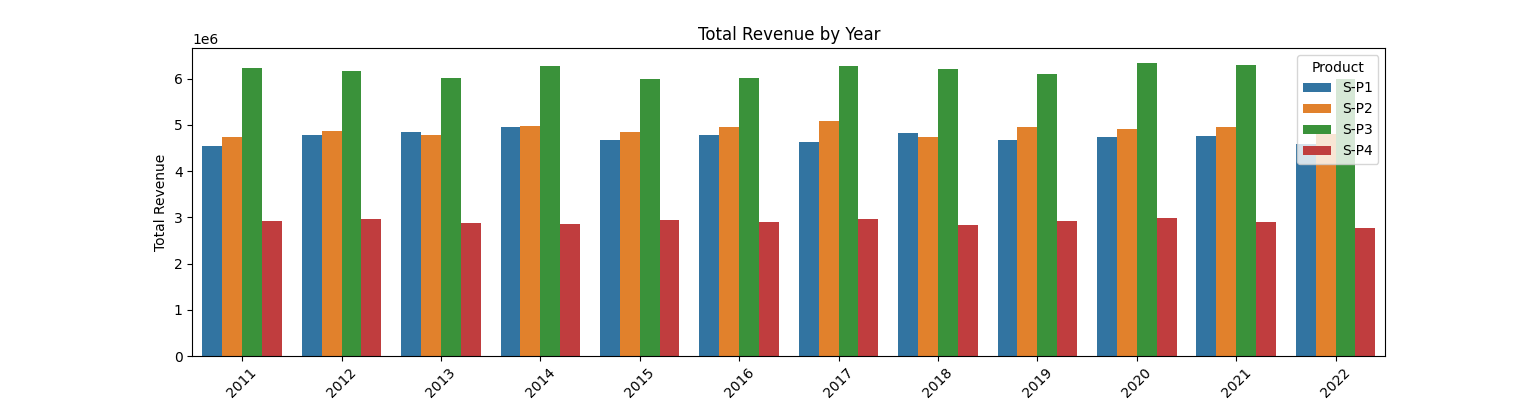
Product Q-P2 consistently leads in total unit sales.

**Mean Unit sales of products P1, P2, P3, P4 from 2011 to 2022**



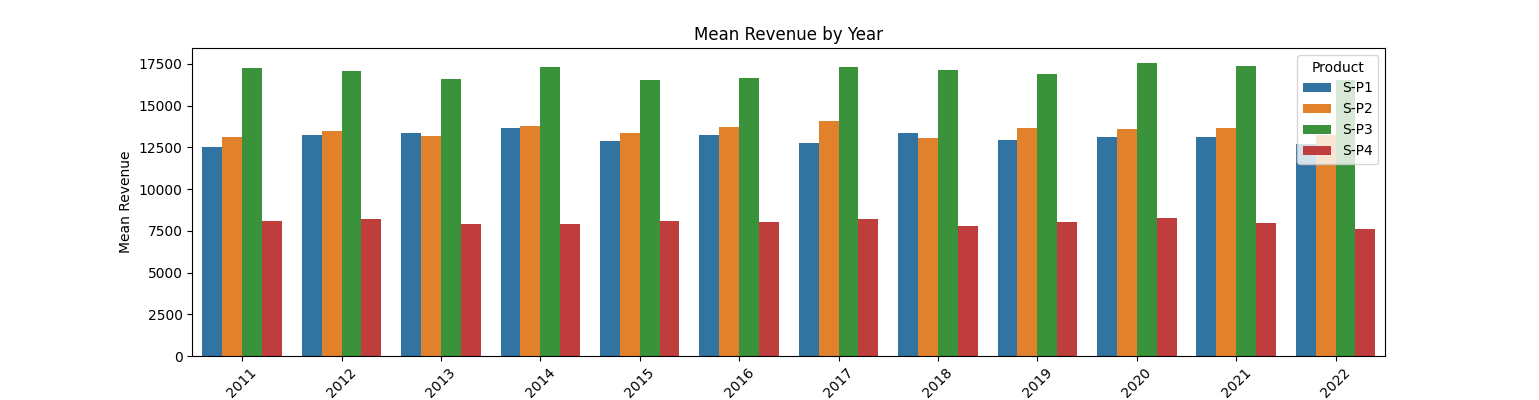
**Insights**

The mean unit sales for all products show a gradual increase over the years. Product Q-P4 has the highest mean unit sales in recent years.

**Total revenue earned from products P1, P2, P3, P4 from 2011 to 2022**

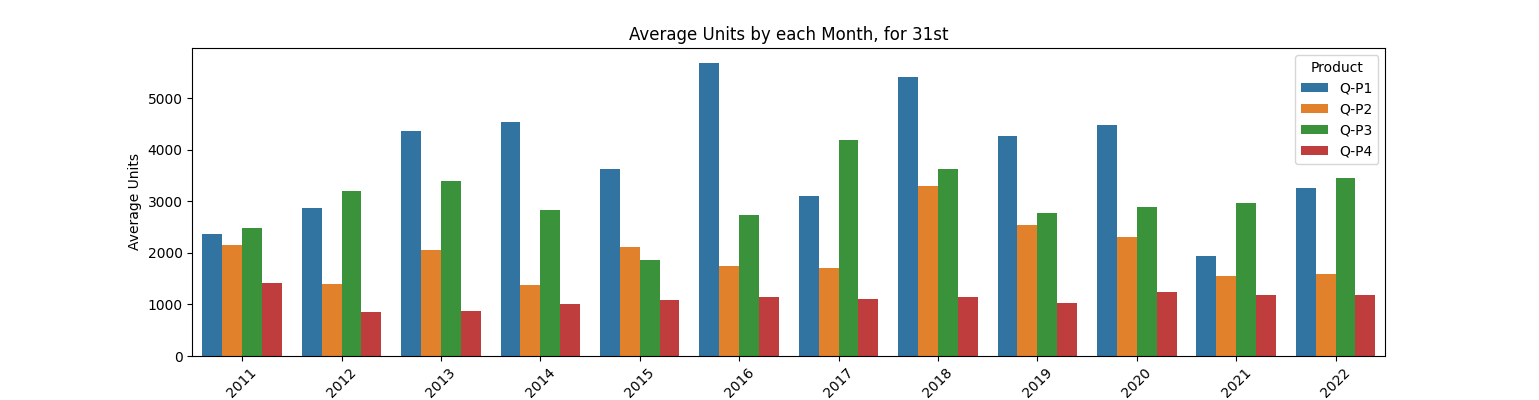
**Insights**

The revenue earned from product is consistent over the years. The product S-P1 earned more revenue

**Mean revenue earned from products P1, P2, P3, P4 from 2011 to 2022**

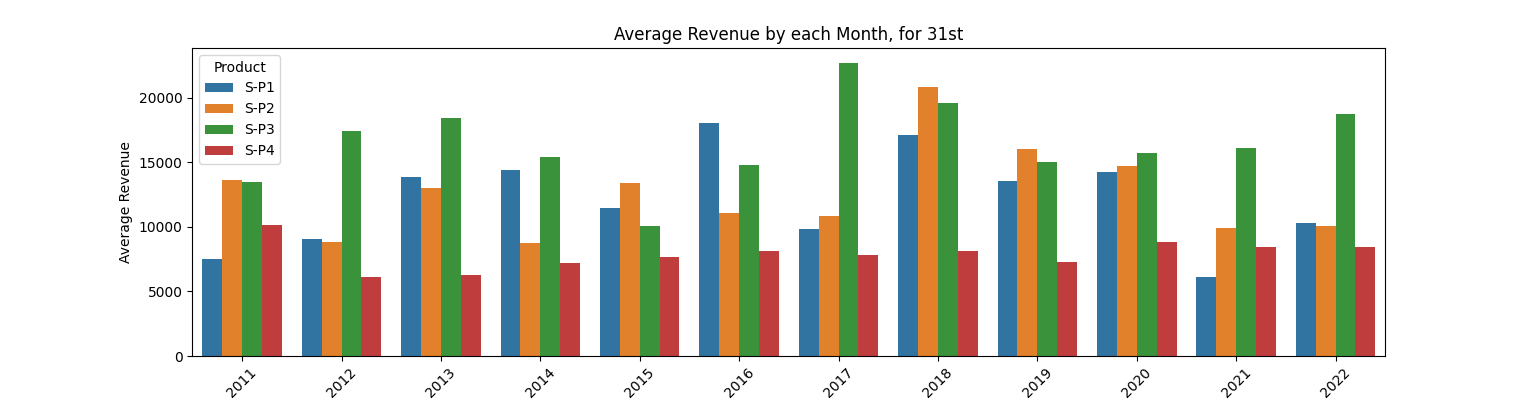
**Insights**

The revenue earned from product is consistent over the years. The product S-P1 earned more revenue

**Average units of product sold by each month, for 31st from 2011 to 2022**

**Insights**

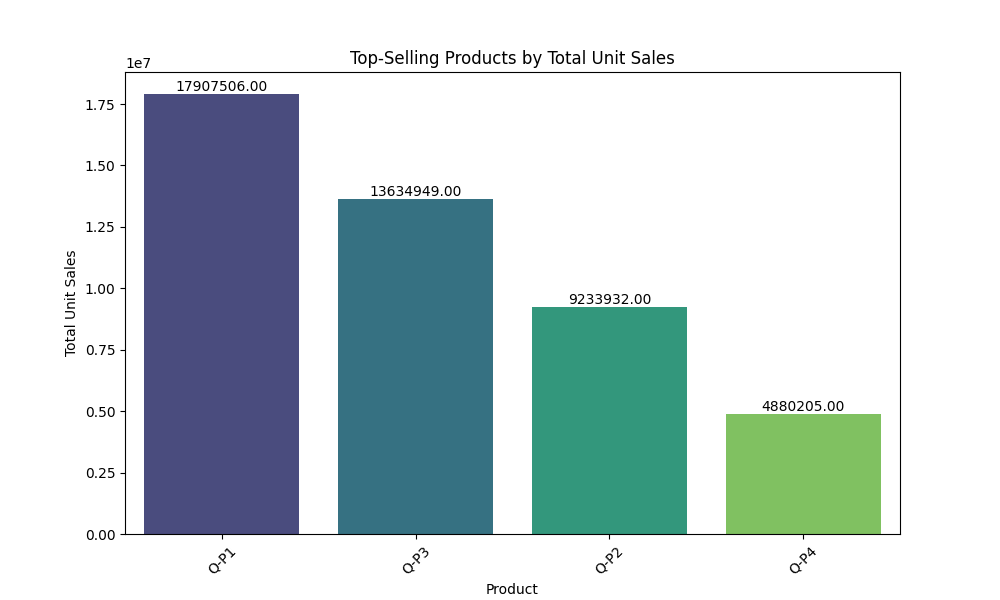
The units of product sold in each month is gradually increasing and decreasing over the years. The product Q-P1 is sold more

**Average revenue earned from product sold by each month, for 31st from 2011 to 2022**

**Insights**

The average revenue earned in each month is gradually increasing and decreasing over the years. The product S-P3 earned much.

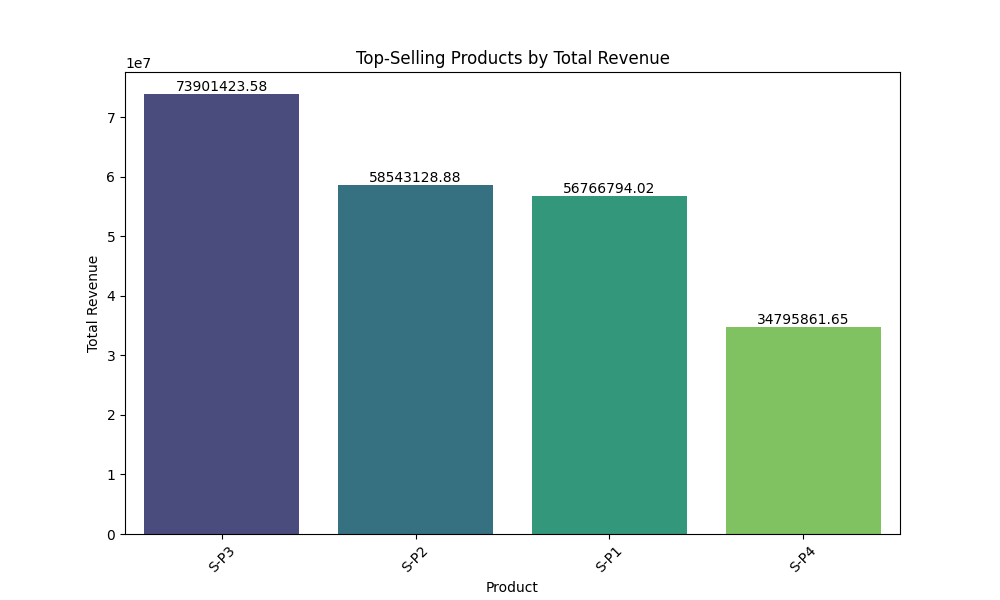
**Top selling products by total unit sales**



**Insights**

The product Q-P1 is the top selling product and Q-P4 is the least selling product based on unit sales

**Top selling products by total revenue**



**Insights**

The product S-P3 is the top selling product and S-P4 is the least selling product based on total revenue

**Conclusion**

The given product dataset is analysed and visualized