Dataset Description

Name: retail_sales_dataset.csv

Objective:

Develop a predictive model to classify customer segments based on various retail-related features. This project involves using Python for data preprocessing and exploratory data analysis (EDA), applying machine learning algorithms for model building, and utilizing Tableau for visualization and insights.

Columns:

- 1. **Customer_ID**: Unique identifier for each customer.
- 2. **Customer_Name**: Name of the customer.
- 3. **Age**: Age of the customer in years.
- 4. **Gender**: Gender of the customer (0 = Female, 1 = Male).
- 5. **Annual_Income**: Annual income of the customer in USD.
- 6. **Spending_Score**: Spending score assigned by the retailer (1-100).
- 7. **Marital_Status**: Marital status of the customer (0 = Single, 1 = Married).
- 8. **Product_Category**: Preferred product category (e.g., 'Electronics', 'Clothing', 'Groceries', 'Home', 'Sports').
- 9. **Years_as_Customer**: Number of years the customer has been with the retailer.
- 10.Number_of_Transactions: Number of transactions made by the customer.
- 11. Average _Transaction _Amount: Average amount spent per transaction in USD.
- 12.**Loyalty_Card**: Whether the customer has a loyalty card (0 = No, 1 = Yes).

- 13. **Discount_Avail**: Whether the customer avails discounts (0 = No, 1 = Yes).
- 14. Preferred_Shopping_Channel: Preferred shopping channel (e.g., 'Online', 'In-Store').
- 15. **Customer_Segment**: Customer segment classification (0 = Low Value, 1 = Medium Value, 2 = High Value) (Target Variable).

Note: Customer_Segement is the target column