## E-commerce Retail Analysis

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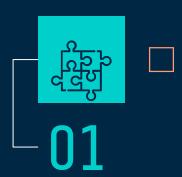
#### Problem Statement





Given data from an ecommerce site that operates in different countries..Which products, country, time should the e-commerce retailer focus on in a bid to improve its marketing, inventory management and yearly turnover?

## **OBJECTIVES OF ANALYSIS**



# POLICY FORMULATION

The analysis will enable the company in policy formulation that will enhance the business.

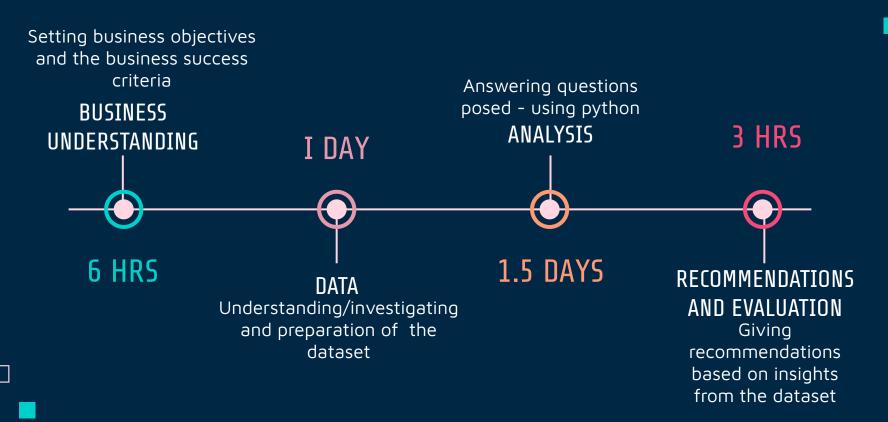


The analysis will enable the company to come up with a marketing strategy that will increase the business's returns



Prediction of consumer behaviour allows us to master the trend and cater for the customers better

## OUR PROCESS





The dataset was sources from kaggle.com in a csv format

The dataset contained data of an e-commerce company with transactions of purchases from different countries



## DATA SOURCING



## DATA QUALITY

We counter checked the validity of our data and all the columns were relevant for our analysis

**VALIDATION** 

#### CONSISTENCY

The dataset contained duplicate values on the Customer ID and Invoice Numbers

Our data had negative values which we later categorised them as failed transactions hence were cancelled

**ACCURACY** 

#### COMPLETENESS

The dataset contained numerous missing values in the customer ID column and the description column

## DATA PREPARATION

# SELECTION OF DATA

Used all columns and rows



We used all of our data analysis

#### DATA CLEANING

Ensured validity, accuracy, consistency, uniformity



Dropped null values
Set aside cancelled
transactions
Retained duplicate values
Split date time data type

# CONSTRUCTION OF NEW DATA

Generated five new columns



Total expenditure
Date, Time,
Year, month ,day
Hour, minute, second

#### **ANALYSIS**

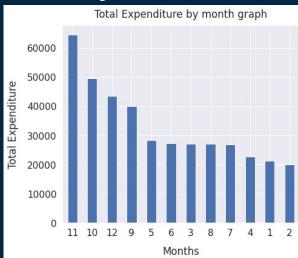
The top three countries with cancelled transactions are UK, EIRE and France.

The countries with the most customers is UK having 354345 and the countries with the least customers is Saudi Arabia

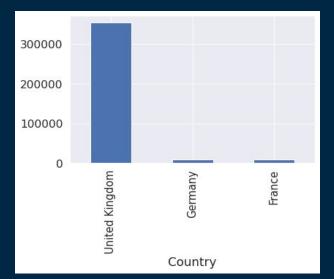
The country with the highest average expenditure of consumers is Netherlands with an average of 120.798282

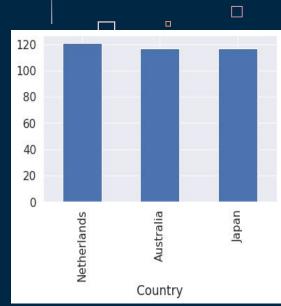


## Analysis



Graph of months vs sales highest sales are towards the end of the year with November recording the most sales Top three countries that recorded the most sales -UK leading followed by Germany and France





Top three countries with the highest mean consumer expenditure

#### **ANALYSIS**

- The most popular product was WHITE HANGING HEART T-LIGHT HOLDER, POSTAGE.
- The overall least popular product was PINK BAROQUE FLOCK CANDLE HOLDER.
- The products that brought the most returns overall were PAPER CRAFT, LITTLE BIRDIE, REGENCY CAKESTAND 3 TIER and WHITE HANGING HEART T-LIGHT HOLDER
- The top three products that had canceled transactions were PAPERCRAFT, LITTLE BIRDIE, MEDIUM CERAMIC TOP STORAGE JAR and ROTATING SILVER ANGELS T-LIGHT HLDR

#### ANALYSIS

The products with the highest returns are in United Kingdom, France and Germany are LETTER "O" BLING KEYRING, 50'S CHRISTMAS GIFT BAG LARGE and CHRISTMAS GINGHAM HEART

The overall least popular product was PINK BAROQUE FLOCK CANDLE HOLDER.

The product with the overall least return is PADS TO MATCH ALL CUSHIONS.

#### RECOMMENDATIONS



The best time for the company to launch marketing campaigns

—SEPTEMBER



For cancelled products concentrating on product quality, costs, product description

PRODUCT ANALYSIS



For countries with most returns but little number of customers

—INCREASE CUSTOMER BASE



For products with the least number of sales overall

—CONDUCT CUSTOMER
SURVEY



Customer feedback will lead to identification of market gaps in products

—ADOPT FEEDBACK PLATFORMS



Most popular products purchased from all countries

—MAXIMIZE ON SALES



# THANKS AND BYE

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