E-COMMERCE CUSTOMER BEHAVIOUR ANALYSIS

ABDULLAH AL FAHAD
Begum Rokeya University, Rangpur



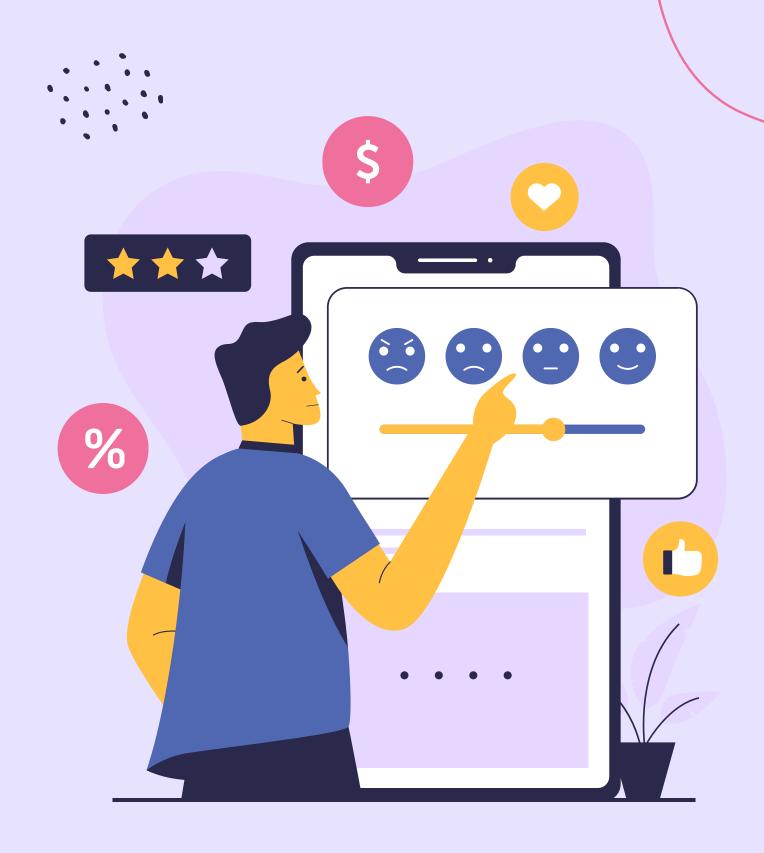
UNDERSTANDING CUSTOMER BEHAVIOR

By analyzing user data, you can identify patterns, preferences, and pain points, allowing you to make informed decisions that improve the overall shopping experience.

- CUSTOMER
 JOURNEY MAPPING
- PERSONALIZATION

BEHAVIORAL ANALYTICS

FEEDBACK LOOPS



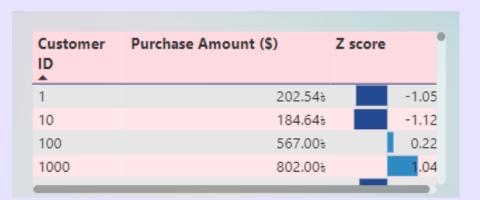
Basic Insights

Q1. Find Mean, Median, and Mode (Age)

 Age mean
 Age Median
 Age Mode

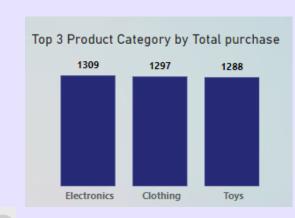
 43.79
 44.00
 51

Q2. Find variance, standard deviation, and z-score (Purchase Amount)



Sales Stdev Sales Var 81.92K も

Q3.What are the top three product categories based on the number of purchases?



Q4. How many customers are classified as return customers?

Return Cust

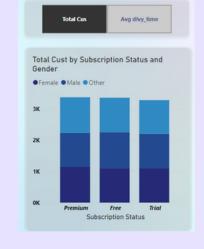
Q5.What is the average review score given by customers?

Avg Review 3.00

Q6. How does the average delivery time vary between subscription statuses (Free, Premium)?

Q7. How many customers are subscribed

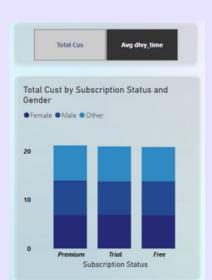
to the service?



• Premium: 3,369 customers

• Free: 3,354 customers

• Trial: 3,277 customers



• Free: 6.96 days

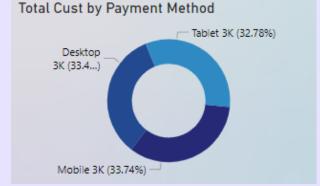
• Premium: 7.07 days

• Trial: 7.00 days



Q8. What percentage of customers used devices to

make purchases? (Mobile, Desktop, Tablet)



• Mobile: 33.74%

• Desktop: 33.48%

Tablet: 32.78%

Q9. What is the average purchase amount for customers who availed

discounts compared to those who didn't?

With Discount Avg Sales
502.515

With Discount Avg Sales

505.26**ਰ**

Q10.What is the most common payment method used by customers?

Intermediate Insights



Bank Transfer: 20.67%

Credit Card: 20.28%

• Cash on Delivery: 20.07%

Debit Card: 19.83%

PayPal: 19.15%

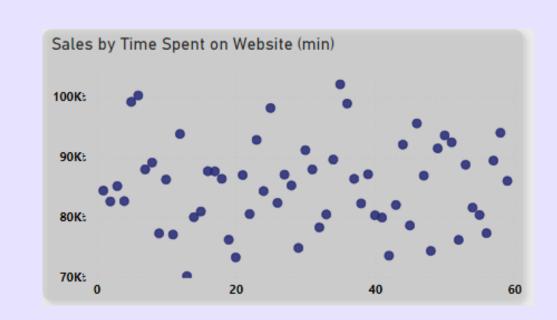
Q1.What are the average review scores of users of the most common payment method?

| Bank Transfer |

3.0 Average of Review Score (1-5)

Q2. What is the correlation between time spent on the website and purchase amount? Do customers who spend more time on the website purchase more items?

No, customers who spend more time on the website do not purchase more items.



Q3. What percentage of customers are satisfied (rating of 4 or 5) and are also return customers?

Q4.What is the relationship between the number of items purchased and customer satisfaction?

Customers with medium satisfaction purchase the most, while highly satisfied customers buy slightly fewer items.

Q5. Which location has the 2nd highest average purchase amount?

Barisal





Critical Insights

Q1. What factors contribute most to a customer being classified as a return customer?

Return customers are primarily influenced by their payment method and satisfaction level, with higher return rates linked to credit/debit cards and review scores of 4 or 5. Discounts also significantly impact return rates, as many return customers benefited from them.

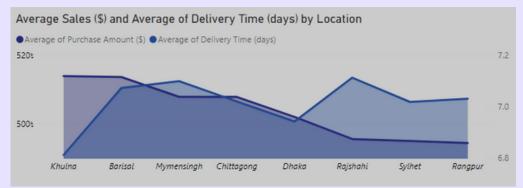
Q1. How do payment methods influence customer satisfaction and return rates?

Bank Transfer leads in satisfaction and return rates, as a large proportion of return customers use this method. Credit Card also show high satisfaction, contributing to return rates.

Q2.How does the location influence both purchase amount and delivery time?

Khulna and Barisal lead in purchase amounts, but delivery times vary slightly across regions indicating logistical impacts on satisfaction.





Customer Behaviour Analysis









Sales Stdev

286.22b

Sales Var

81.92K रि

Avg Review

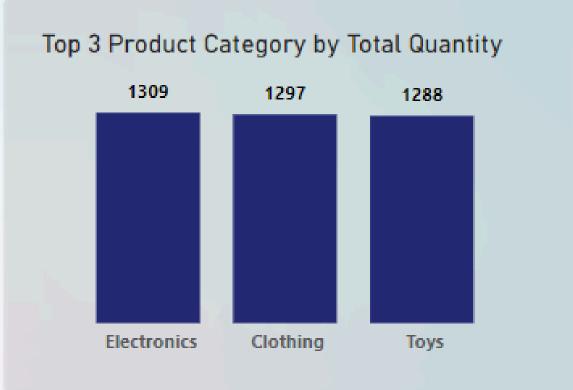
3.00

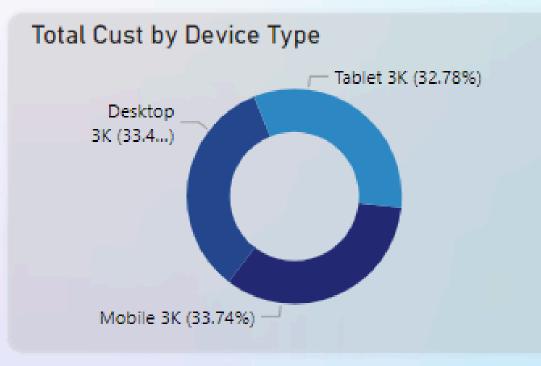
Without Discount Avg Sales

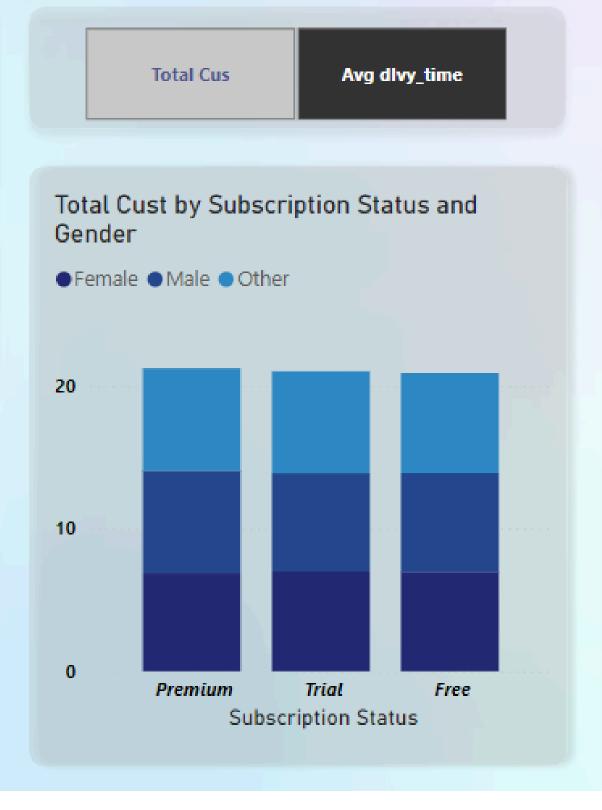
502.51 ह

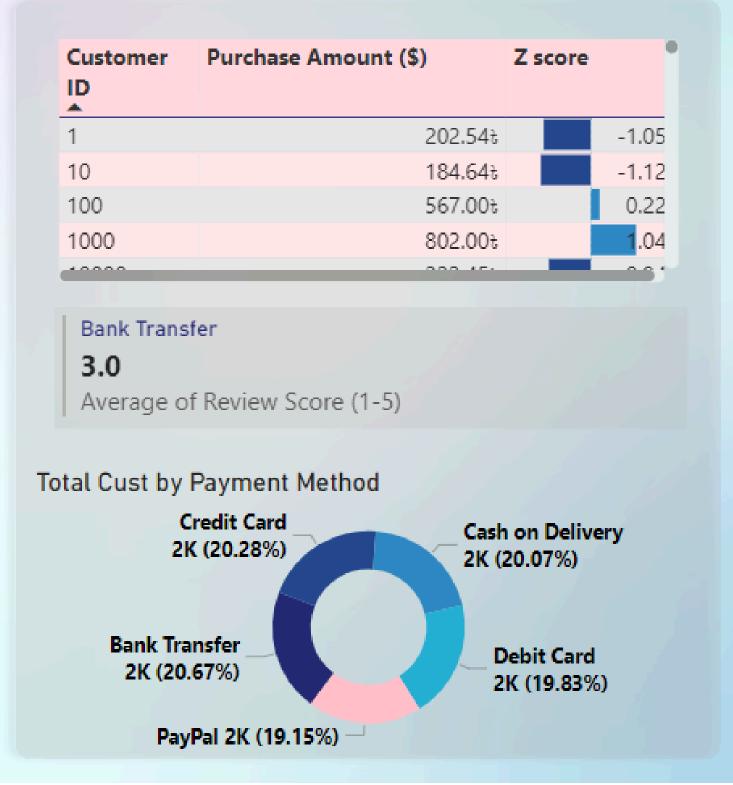
With Discount Avg Sales

505.26**७**









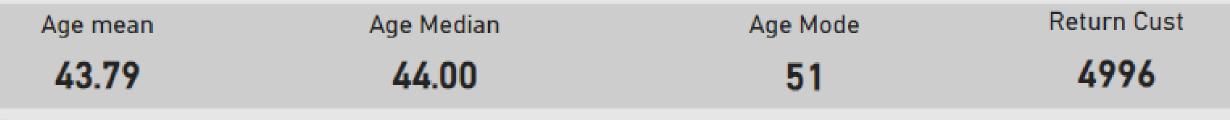
Customer Behaviour Analysis



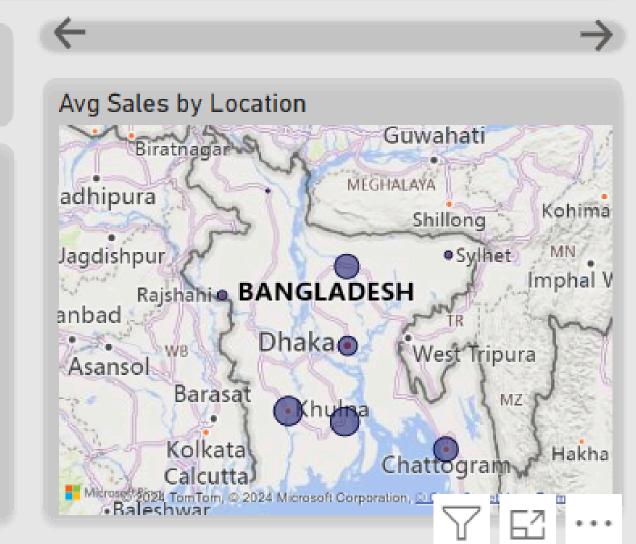


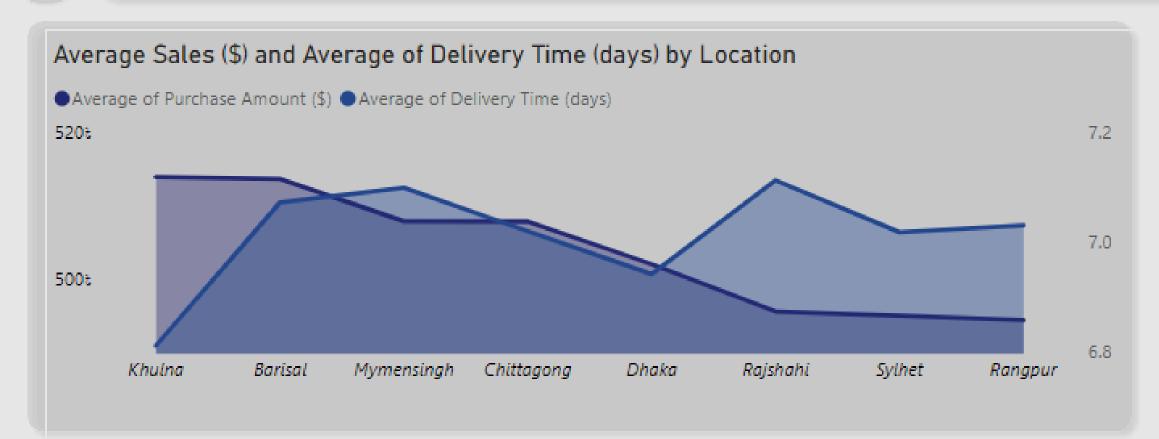


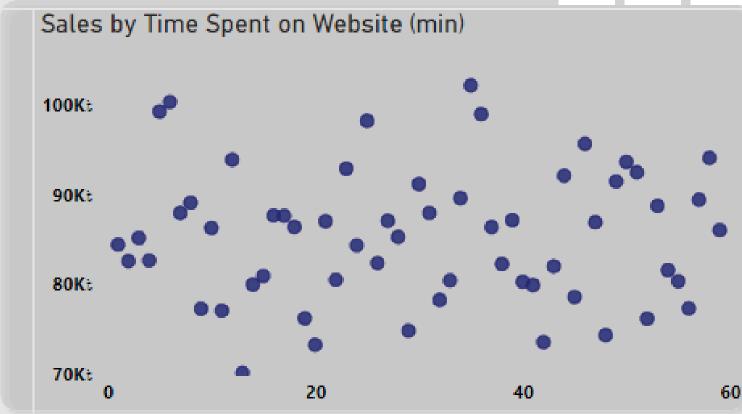












Insights

Customers aged 41-55 make up the largest group of return customers, totaling 1,444. Within this group, 515 males and 437 females prefer Bank Transfer as their payment method, with most of them located in Barisal.



Among male customers, 1706 individuals availed discounts, with an average discounted sales amount of 509.77. For female customers, 1695 also benefited from discounts. Interestingly, the group with the highest number of return customers, consisting of 1694 individuals, exhibited low satisfaction, and 1673 of them availed discounts.

THANK YOU

LET'S ELEVATE YOUR E-COMMERCE SUCCESS



