



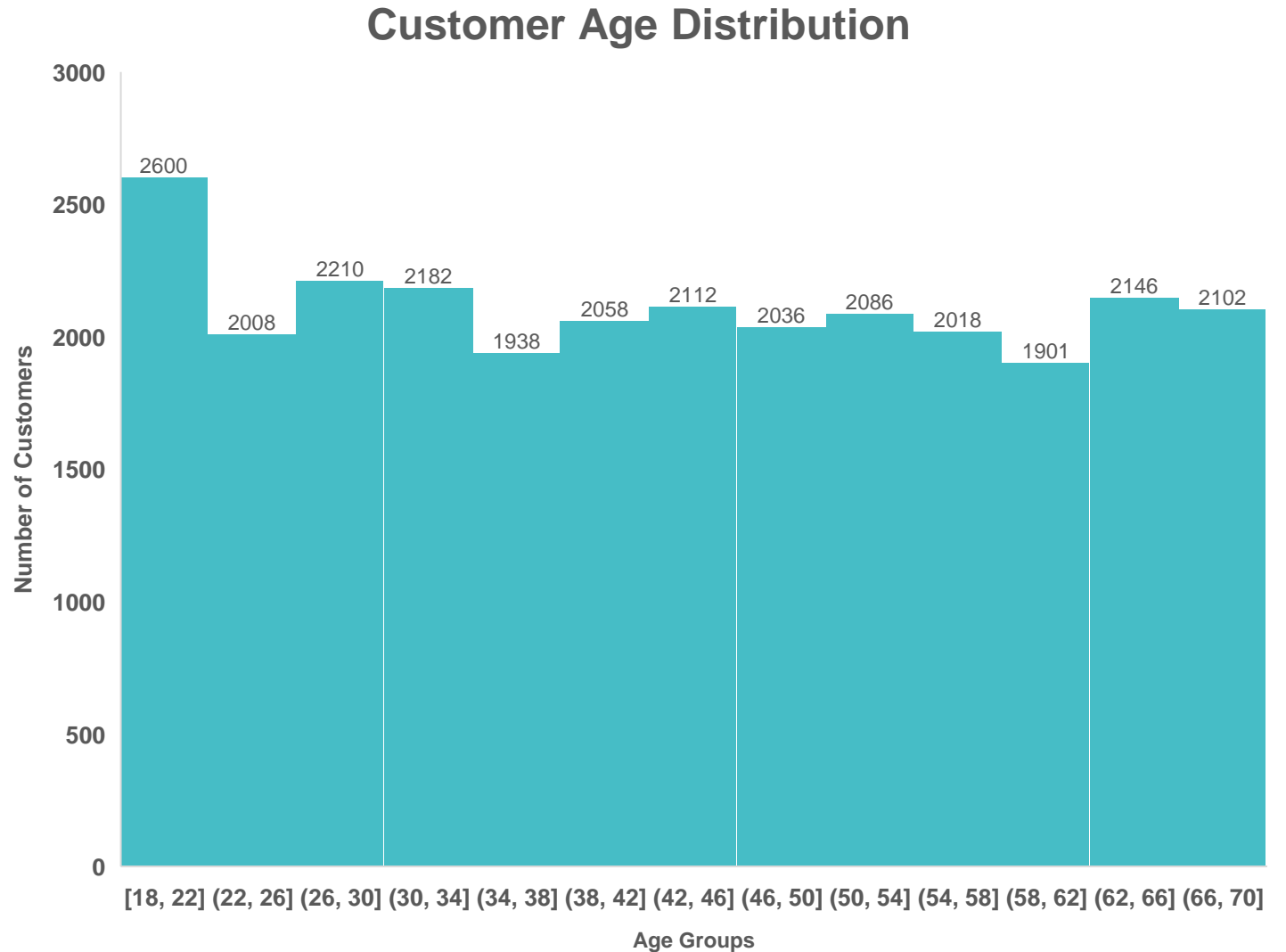
Customer Demographics and Purchase Behaviour

BADM – Project 2

Task 2

Age Distribution Histogram

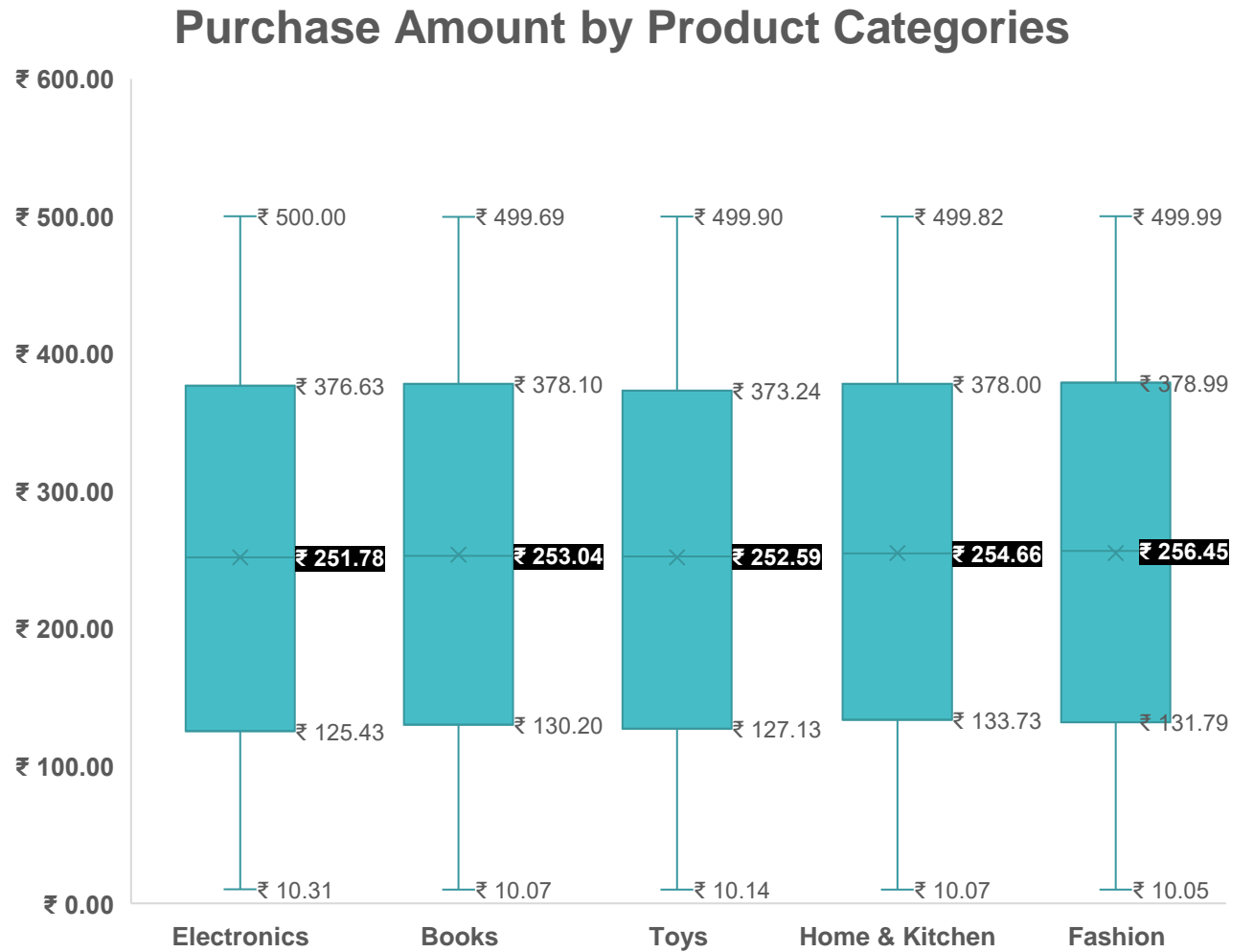
- Grouped ages into bins and created the histogram
- As highest, 2600 customers are from the age group 18 to 22
- As lowest, 1901 customers are from age group 58 to 62



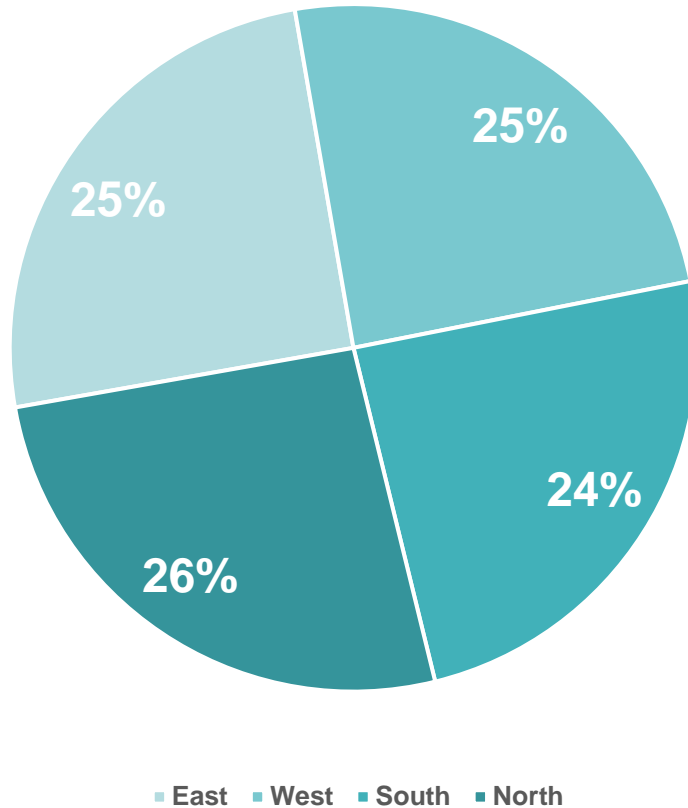
Task 3

Box Plot for Purchase Amount

- Created a box plot with product categories by purchase amount
- Projected the median purchase amount for each product categories



Customers % by Region

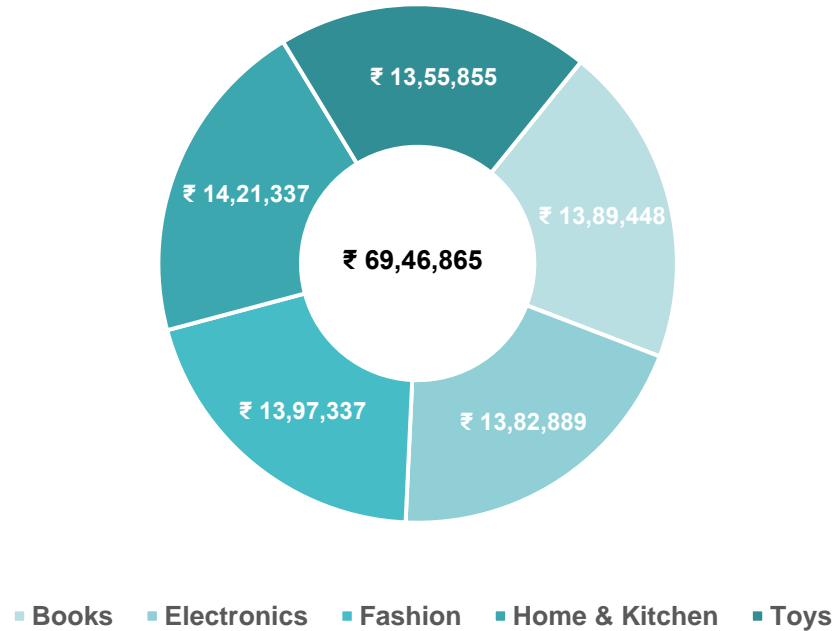


Task 4

Pie Chart for Customer Distribution

- Created a pie chart to represent the customer distribution in each region
- North region has the highest customer base with 26% contribution

Revenue by Category



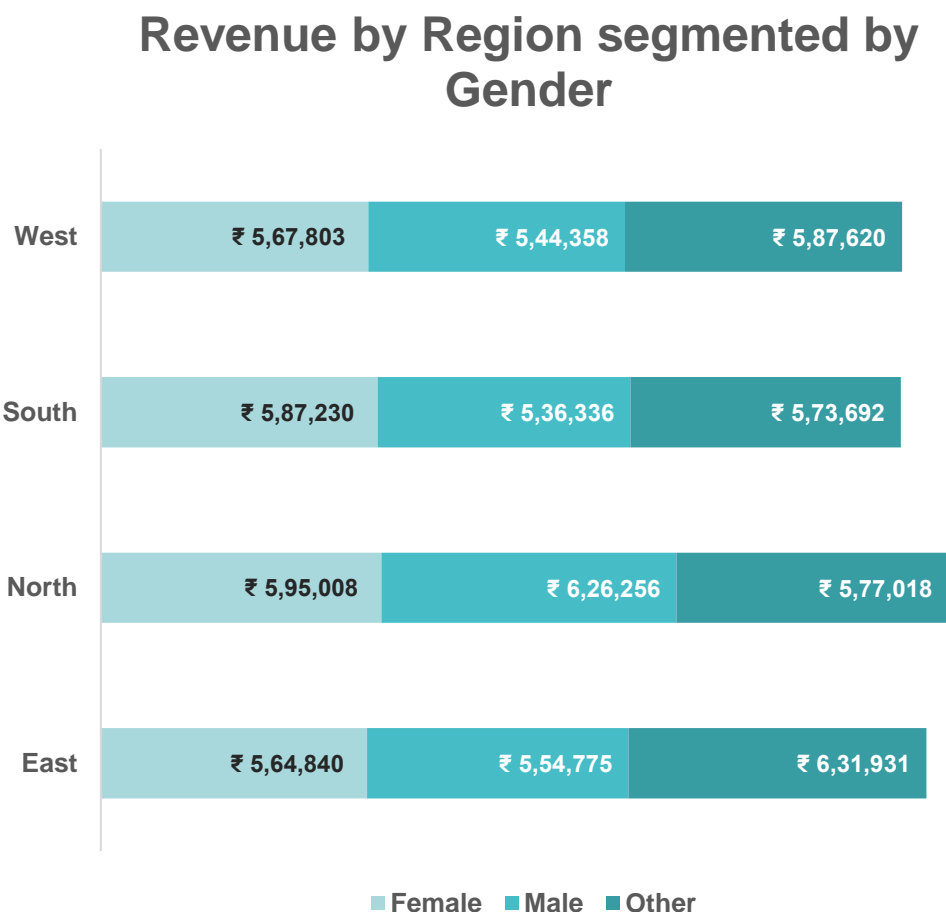
Task 5

Donut Chart for Product Revenue Contribution

- Created a donut chart to visualize the revenue contributed by each product categories
- The category Home & Kitchen has contributed the highest revenue across all product categories

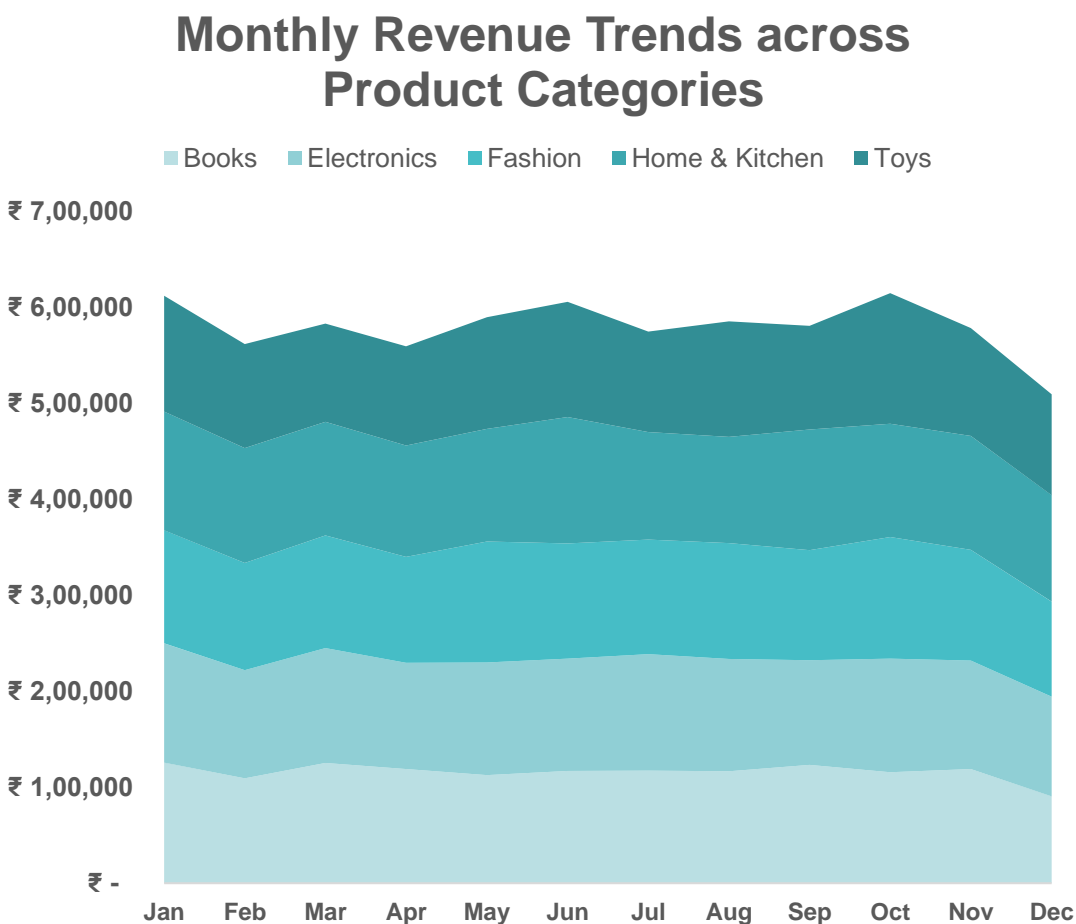
Task 6

Stacked Bar plot for Regional Revenue by Gender



Task 8

Donut Chart for Product Revenue Contribution

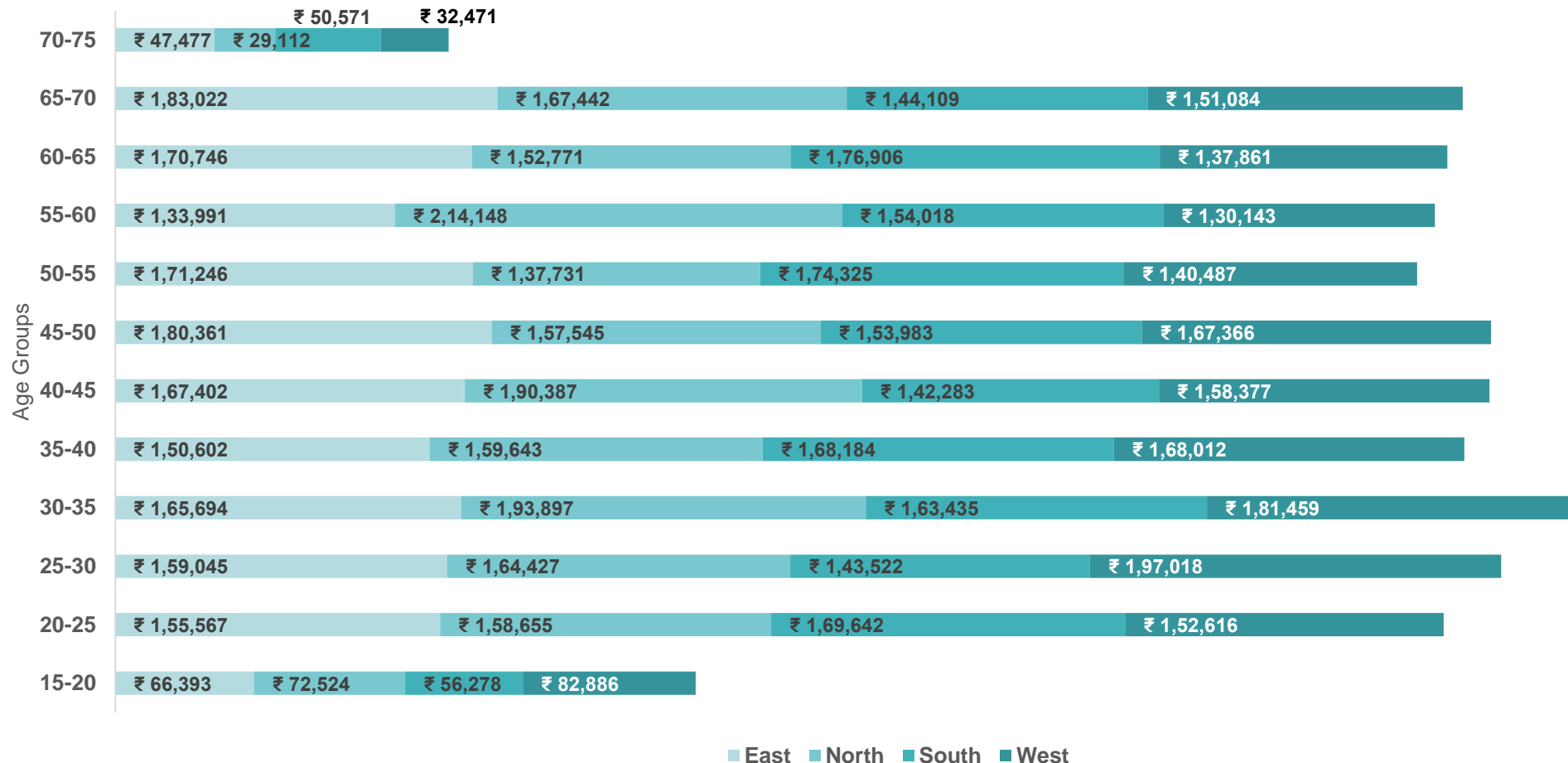


Task 7

Relative Stacked Bar Plot for Age Groups

Visualized the proportion of purchases made by different age groups in each Region

Purchase by Age Groups across Region



Task 9

Scatter Plot for Age vs. Purchase Amount

- Explored the relationship between Age and Purchase Amount
- As per the pattern in spending behaviour overall there is **No Correlation**

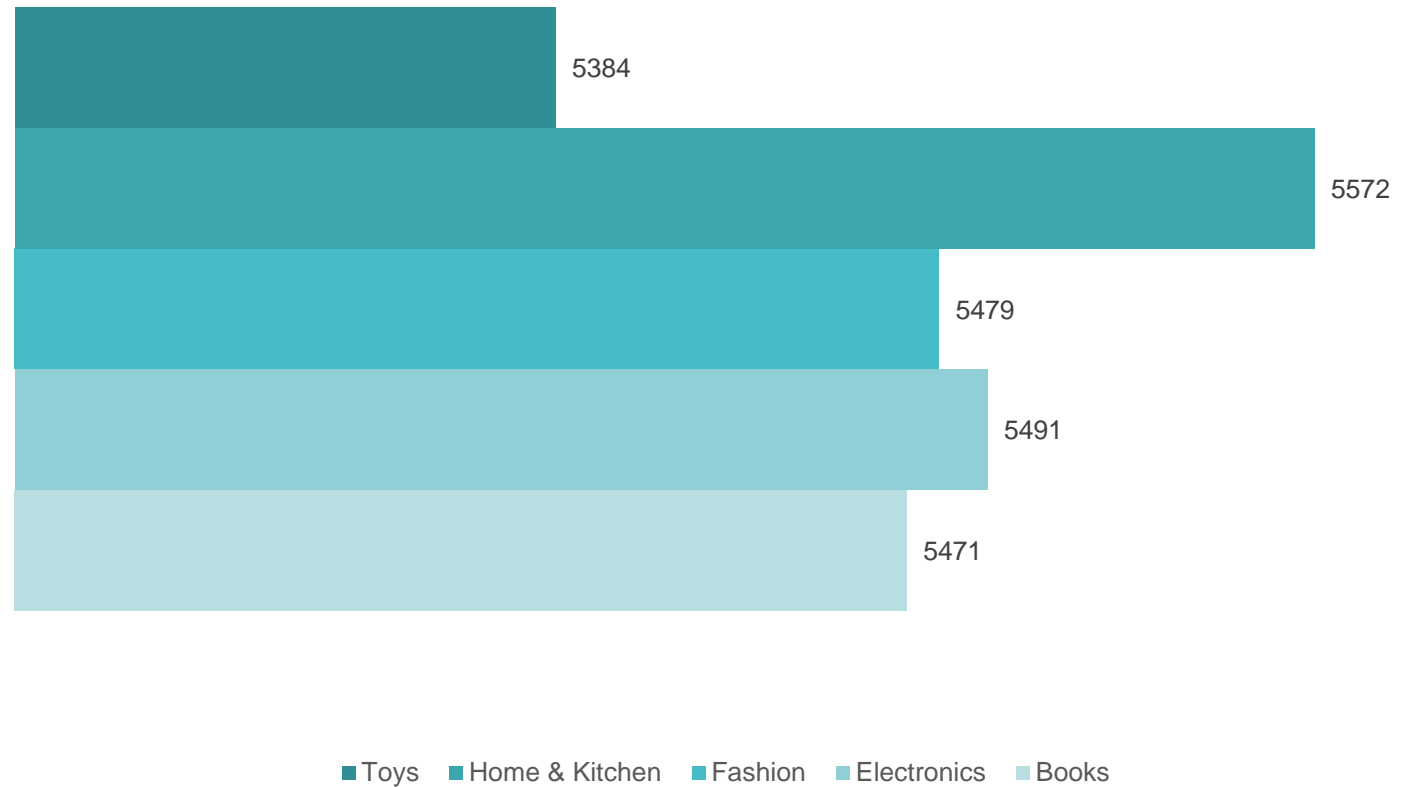


Task 10

Bar Plot for Toal Purchases

- Compared the total number of purchases across Product categories
- Most popular categories are Home & Kitchen

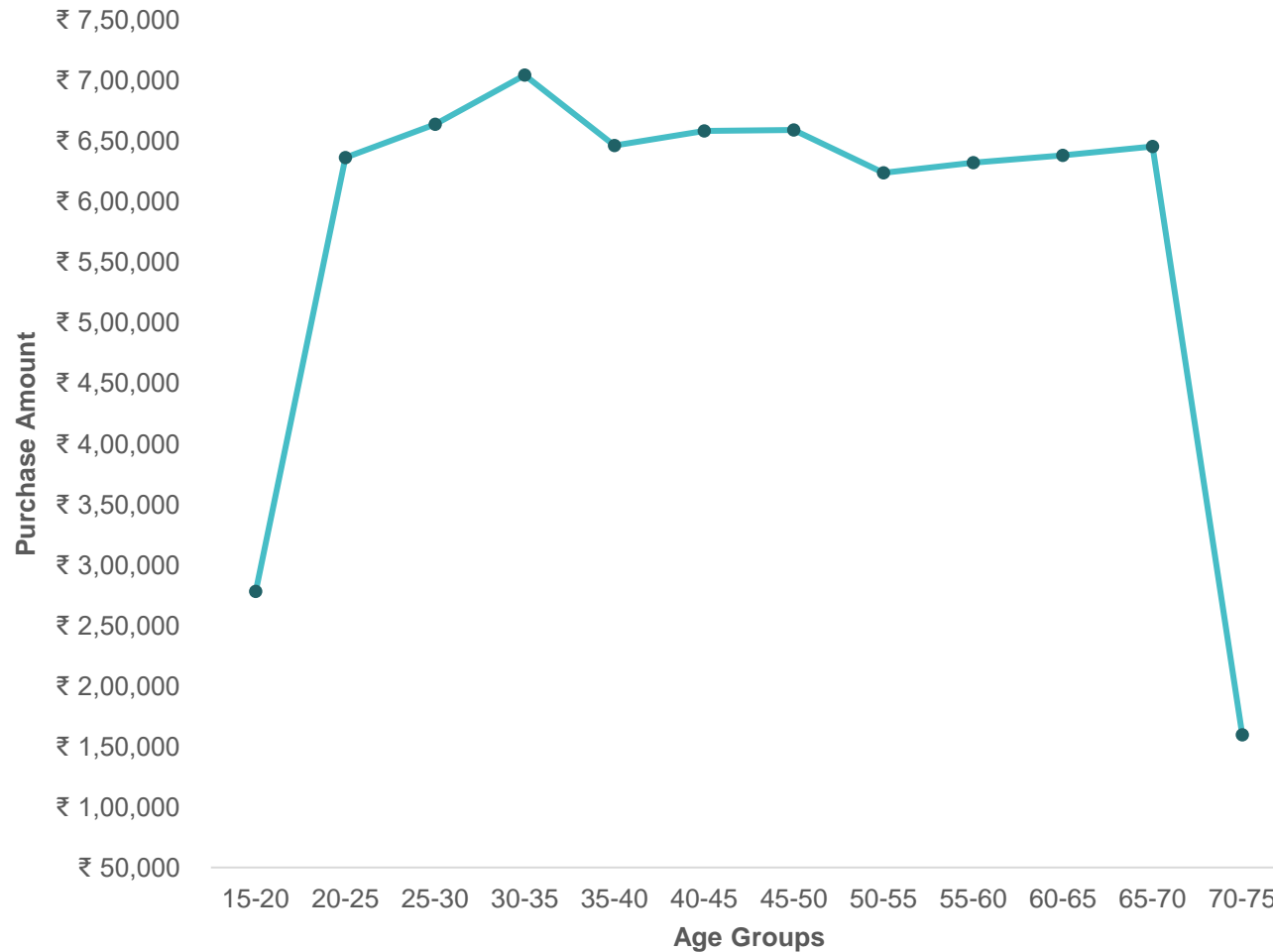
Number of Purchases by Categories



Task 11

Continues vs Continues Analysis

- Visualized how Purchase Amounts vary with Customer Age
- There is a Positive correlation between age and purchase amount between 15-20 to 30-35 age group
- Negative correlation past the 65-70 age group



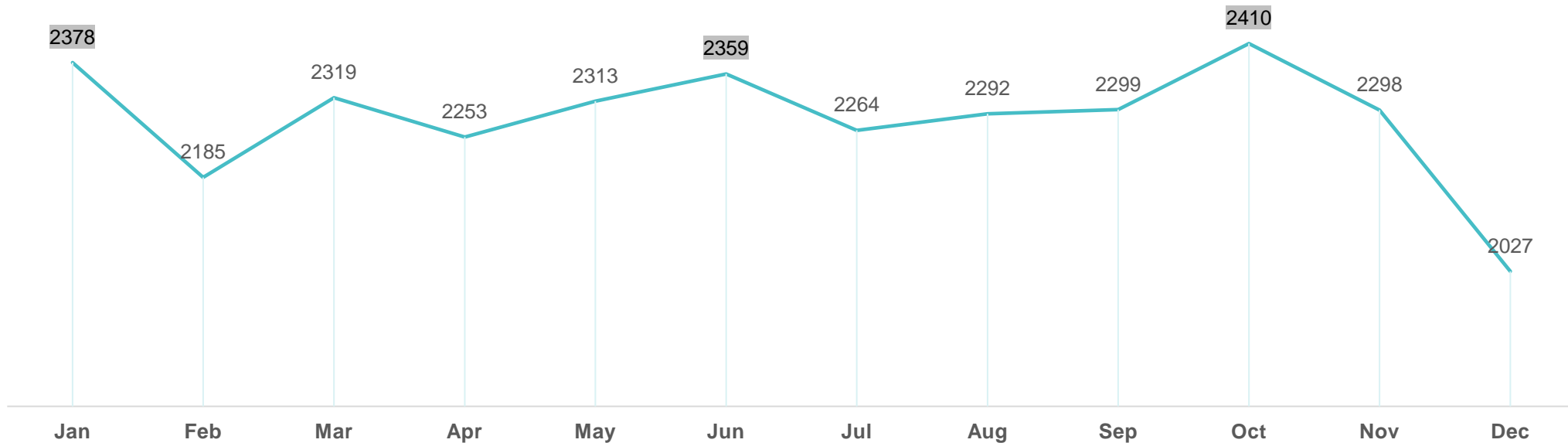
Task 12

Line Plot for Monthly Purchase Trends

- Tracked the number of purchases made in each months
- The peak shopping periods are October, January and June



Number of Purchase by Months





Thank you

