

The Look

# Clothing E-Commerce Analysis

November

2025

# Carmina Y. Chu

“Transforming Data into  
Business Impact.”

## BIO

**Data analyst** with over 12 years of experience across various industries, specialising in exploratory data analysis, data cleaning, data storytelling, and building dashboards that turn complex information into meaningful, actionable insights. I am proficient in SQL, BigQuery, Excel, Power BI, Tableau and Looker Studio, with a strong focus on accuracy, usability and business impact.

## Skills & Tools

Exploratory Data  
Analysis

Data Storytelling

Data Modeling

Data Cleaning

Excel

Data Visualisation

SQL

Power BI

Looker Studio

Tableau



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# Agenda

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# Business Overview



## Context

The Look, an e-commerce clothing site is seeking greater visibility into overall sales performance and product contribution across its range.

- Developed by Looker team
- Data ranges from 2019 - 2025

## Challenge

The business requires a report that tracks sales trends over time, highlights top-revenue-generating products, and identifies the customer segments and acquisition sources driving revenue. These insights will inform finance, product, and marketing strategies.

## Why it matters

Understanding top-performing products allows the business to smarter business decisions, marketing focus, and better stock prioritisation toward items that deliver the greatest revenue impact.

# Business Questions



## Finance

What is the revenue trend overtime?

What categories or brands generate the highest and lowest revenue?

## Marketing

Which customer segments contribute most to revenue, segmented by gender, age group, and geographical location?

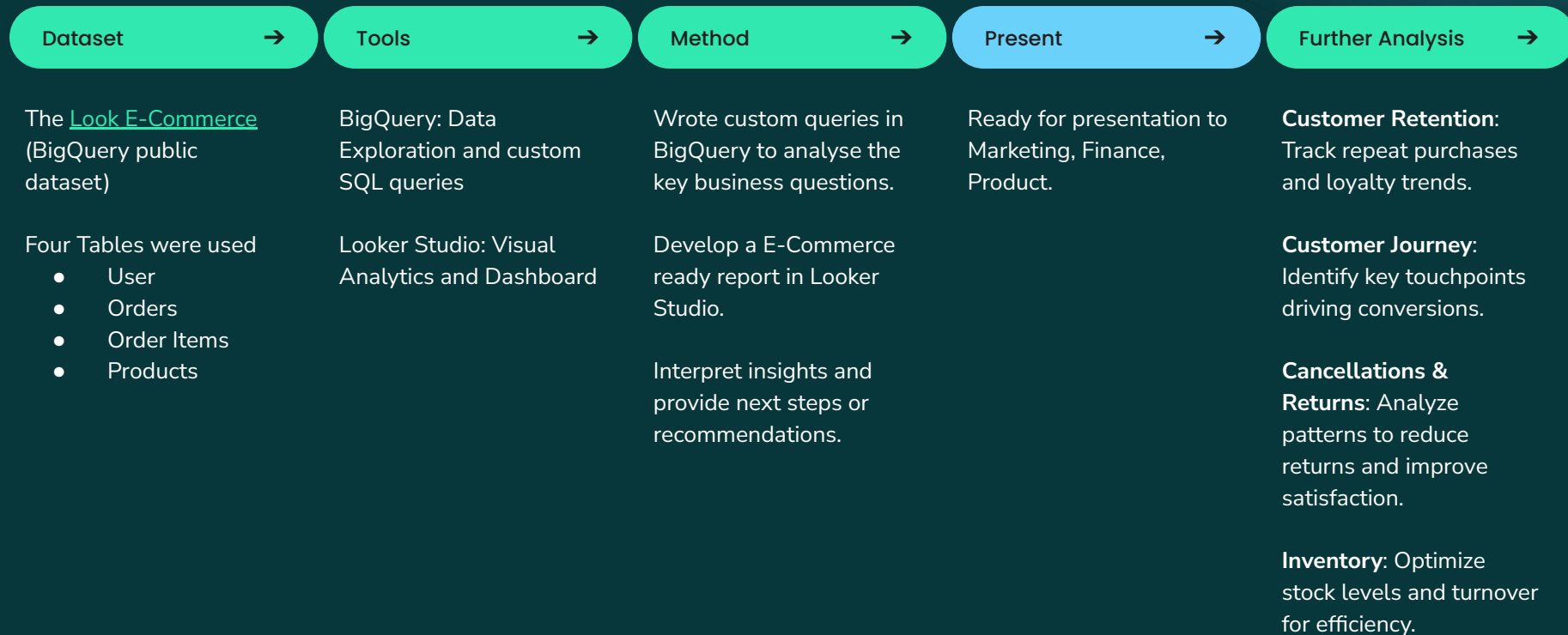
Which traffic sources drives the highest revenue and lowest revenue?

## Product

What demographic segments prefer which categories or brand?

Which product categories or brands have the highest conversion but lowest retention?

# Data & Approach



# Significant revenue spikes observed in 2025

Oct – Nov 2025: ~180K increase

Sep – Oct 2025: ~123K increase

Feb – Mar 2025: ~109K increase



## Largest revenue growth in 2025

- Revenue in 2025 shows strong growth
- November 2025: ~180K increase

## Critical

- Monitoring product sales is essential to evaluate e-commerce site performance.

## Recommendation:

- Product: Identify top-performing brands and product categories driving the highest revenue.
- Marketing: Analyze customer demographics to identify high-value segments and tailor marketing and inventory strategies accordingly.

# Repeat Jan to Feb revenue dip in 2022 and 2025



## Repeat Jan to Feb dip

- Outerwear & Coats were the main drivers during these periods.
- Search traffic also drives these decline
- Geographical: APAC and NA region were primarily concentrated.
- Male Seniors (56 +) were the main customer decline.

## Critical


- Might cause the same decline future dates.

## Recommendation:

- Product: Conduct a deeper analysis to identify which brands are driving the decline, and categorize them into budget, mid-tier, and premium segments to gain more detailed insights.
- Product: Consider planning assortments and stock levels that match regional seasonality.

Repeat Jan to Feb **revenue dip**  
in 2022 and 2025

# Additional Recommendations



## Marketing

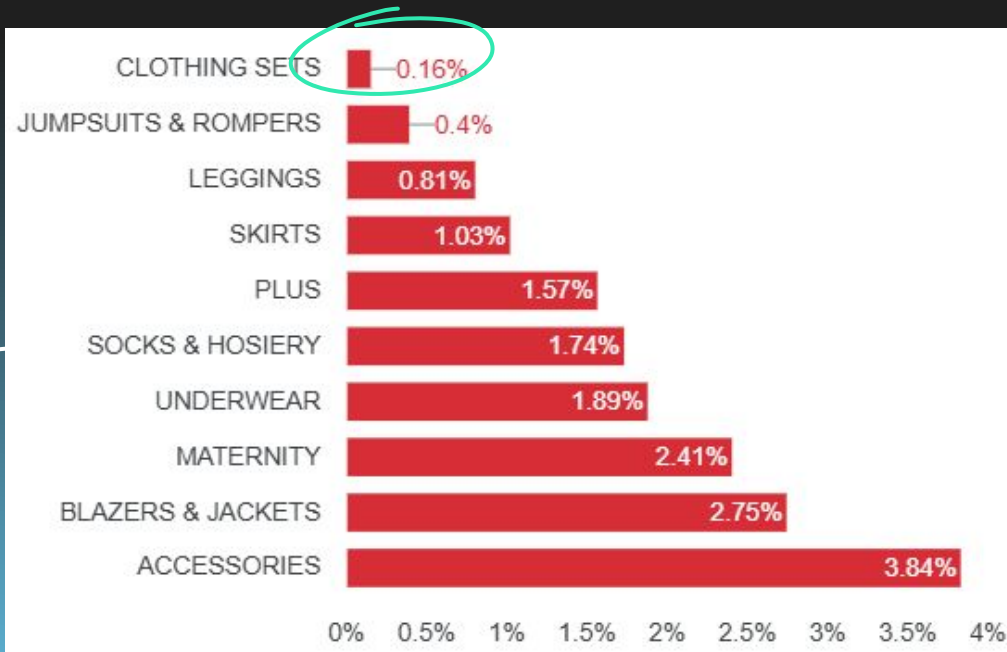
### Strengthen Search Strategy

- **Improving SEO** for Outerwear & Coats (keywords, metadata, product tagging)
- Adjusting paid search **targeting to reach older male audiences.**
- **Refreshing ad creatives** to highlight benefits relevant to seniors (comfort, durability, functionality)

## Product

Since male seniors (56+) were the main contributors to the decline, **review whether current styles, fits, colours, and pricing** align with their preferences. Consider introducing more classic, functional, or premium options if gaps exist.

# Clothing sets contributes to only 0.16% overall revenue



## Low contribution in overall revenue

- Minimal improvement over six years, rising only from \$128 to \$1,336.
- Only contributing to 0.16% from the overall revenue

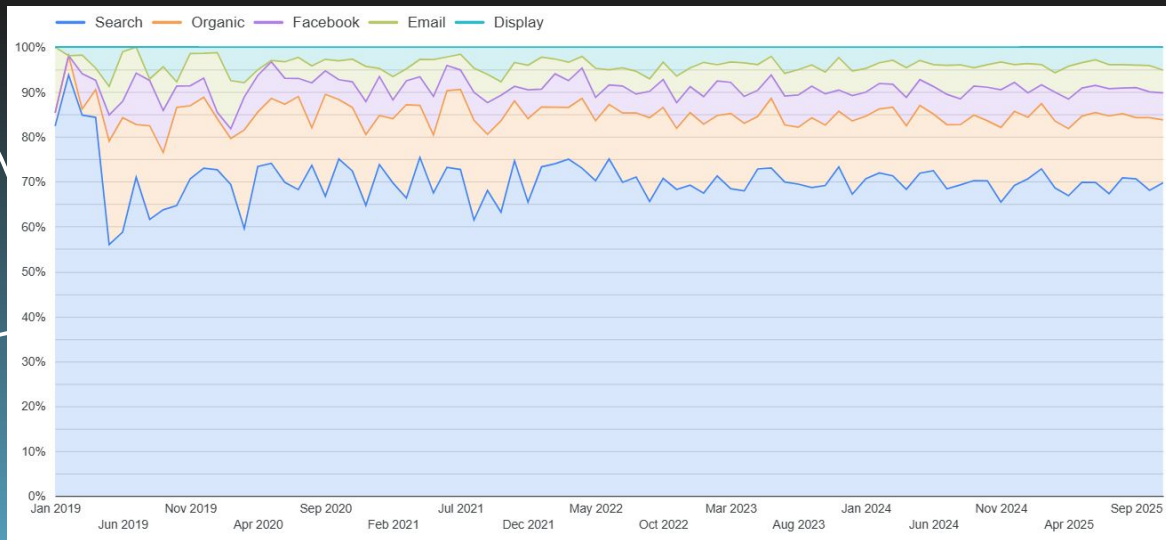
## Critical

- The category made no meaningful impact to the overall business performance, also creating unnecessary operational and inventory cost.
- Limits growth opportunities in more profitable areas.

## Recommendation:

- Product: It may be worth discontinuing the Clothing Sets category, given that its revenue showed minimal improvement over six years, rising only from \$128 to \$1,336.
- Product: If not, revisit the marketing strategy.

# Potential Over-Dependence on Search for Revenue Generation (~56–82%)



## Overdependence on Search

- Overall revenue trends indicate that Search was the dominant driver, contributing approximately ~56-82%.

## Critical

- May be heavily over-relying on high-cost acquisition channels.
- Should not exceed 30–35% of revenue to avoid inflated CAC, and the ideal range is around 10–25%
- A dependency this high could indicate an unstable and expensive acquisition mix.

## Recommendation:

- Data: Follow up with the data engineering team to confirm the channel mapping, as “Search” currently accounts for approximately 56% to 82% of revenue.
- Marketing: Prioritize investments in SEO and paid search rather than spreading budget evenly.

## Potential Over-Dependence on Search for Revenue Generation (~56–82%)

### Marketing

- Reduce spend on keywords with high CAC but low LTV. Shift budget toward more cost-efficient channels.
- For other sources, Grow email through list building, segmentation and automated flows. Enhance Facebook retargeting and explore Display or native ads for top-level awareness.

## Additional Recommendations



### Finance

Revisit the budget of higher-margin or lower CAC channels. Allocate spend towards the other traffic sources.

# Conclusion & Next Steps

## Overall Insights

- Revenue for the e-commerce site grew steadily, with 2025 marking the peak growth period.
- Highest Revenue Category: Outerwear & Coats, Lowest Revenue Category: Clothing Sets
- Revenue was primarily located in the APAC region, Highest revenue countries were China & United States
- Search channel was the main driver of the revenue.
- No big difference with the gender revenue distribution. (F: 54%, M: 46%)
- Almost half of the revenue belongs to Middle age and Senior group. (~49%)

## Next Steps

- Explore for other notable metrics and dimensions to take a deeper dive on the data.
  - Finance: AOV, LTV, Net Profit Margin, Cost
  - Marketing: Campaign ROI, CAC
  - Product: Conversion Rate, Retention Rate (Product & Customer)
  - Dimensions: Brand, Order Status (Cancelled/Returned), Shipped Date, Delivery Date, Returned Date

# Assumptions & Limitations

## Assumptions

- Since purchase date (created\_at) contains future dates, the ingested data for analysis is filter up to the current date.
- Trends observed in the dataset are assumed to reflect normal business patterns, with no major disruptions.
- Revenue is attributed to channels based on the last-click or the reporting model used by the platform, and this is assumed consistent across the period.

## Limitations

- Potential Traffic Source Misclassification: Search (Paid) has a fairly large contribution to the revenue.
- Analysis does not account for detailed spend by campaign, which limits insights into cost-efficiency of channels.

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# Thank you!

Contact me

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# Reference & Documentation



## Process

Documented the data portfolio project process in [notion](#), covering both business and technical strategies.

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## Data Log

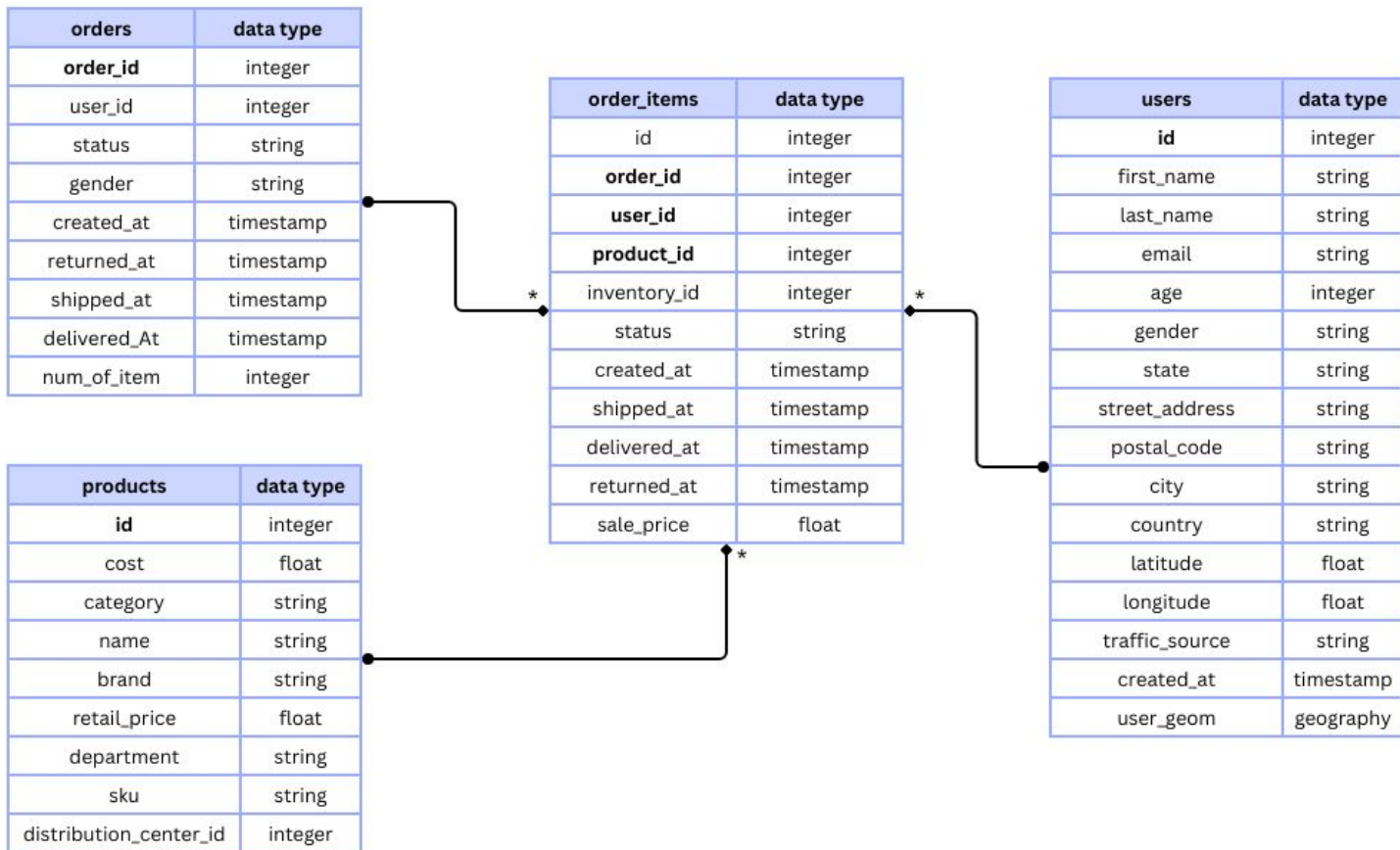
Analysed data quality and identified issues, documenting the steps taken to resolve them in [Google Sheet](#). Includes both high-level insights and detailed deep-dive analysis.

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## Looker Report

Built a dynamic [e-commerce report](#) in Looker Studio to drive data visualization and inform recommendations.

## Entity Relationship Diagram



## Looker Studio Report

### THE LOOK | E-Commerce Performance Report

Select Report Month ▾

#### Overview

Jan 2025 - Nov 2025

##### Summary

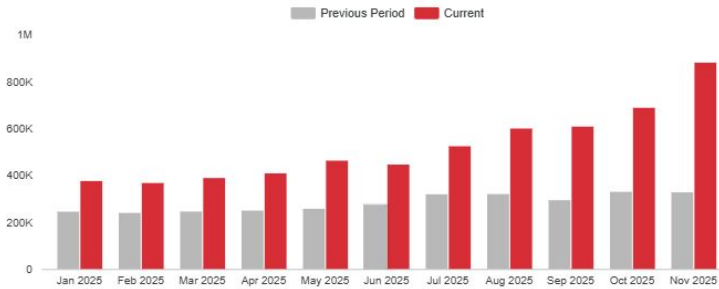
Revenue  
**\$5.74M**  
↑ 85.7% from previous period

Average Order Value  
**\$158.06**  
↓ -2.8% from previous period

Orders  
**36.3K**  
↑ 91.0% from previous period

Customers  
**35.0K**  
↑ 85.7% from previous period

##### Revenue



##### Average Order Value

