

## Cosmetic Supply Chain Analysis

This project is a thorough analysis and visualization of the supply chain data for a company specializing in fashion and makeup products. The utilized dataset is comprehensive, incorporating various features pertinent to the supply chain process, such as product details, sales, revenue, customer demographics, inventory levels, lead times, shipping specifics, supplier information, and more.

The dataset comprises the following features related to the fashion and makeup product supply chain:

Product Type: The category of the product (e.g., clothing, accessories, makeup).

SKU: Stock Keeping Unit, a unique identifier for each product.

Price: The price of the product. Availability: The current availability status of the product.

Number of Products Sold: The number of products sold for a given period.

Revenue Generated: The total revenue generated from product sales.

Customer Demographics: Information about the customers, such as age, gender, location, etc.

Stock Levels: The quantity of each product available in the inventory.

Lead Times: Time taken for an order to be fulfilled from the supplier's end to the customer's end.

Order Quantities: The number of products ordered in each transaction.

Shipping Times: Time taken for shipping products to customers.

Shipping Carriers: The company responsible for shipping the products.

Shipping Costs: The cost incurred for shipping each product.

Supplier Name: The name of the supplier providing the products.

Location: Location of the supplier.

Production Volumes: The volume of products manufactured.

Manufacturing Lead Time: Time taken for the manufacturing process.

Manufacturing Costs: The cost incurred during the manufacturing process.

Inspection Results: The results of quality inspection for products.

Defect Rates: The percentage of defective products.

Transportation Modes: The modes of transportation used to deliver products.

.Routes: The transportation routes taken for delivery.

Costs: Various costs associated with the supply chain process.

Dashboard Creation: A comprehensive dashboard is created, showcasing various supply chain metrics and KPIs. The dashboard includes interactive visualizations like charts, graphs, tables, and maps.

Data Insights: The dashboard will allow users to gain valuable insights into the supply chain process, identify trends, and make data-driven decisions to optimize operations.

404514.68490103

Total Revenue generated

\$ 404514.68

Average Manufacturing Cost

47.87

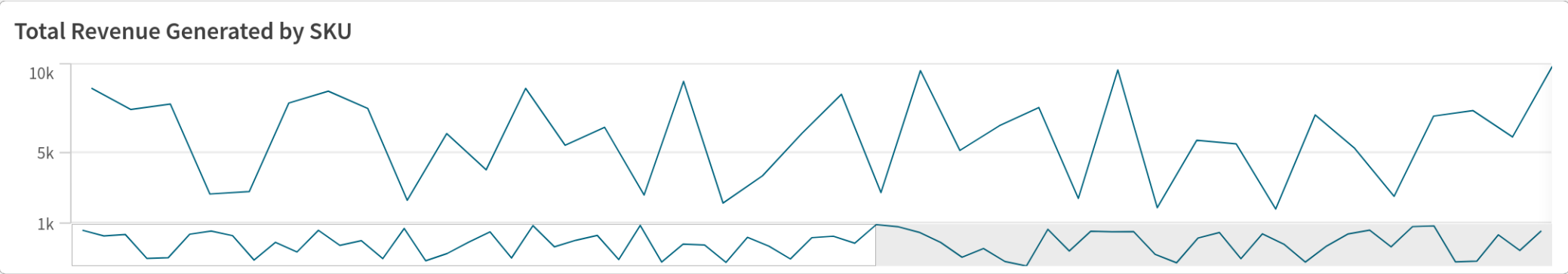
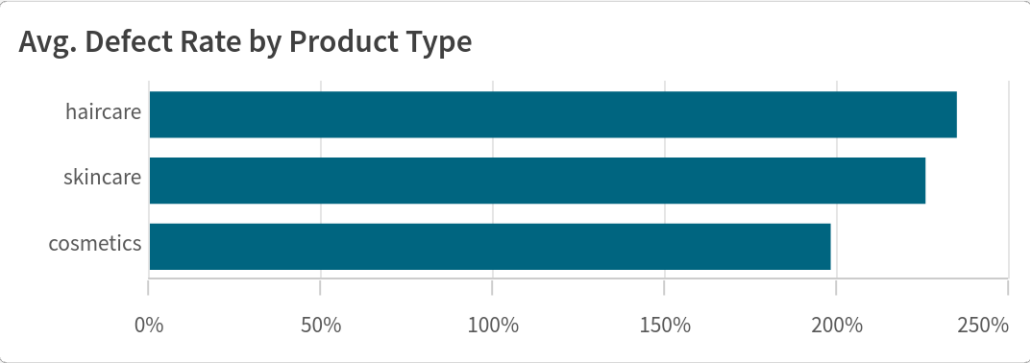
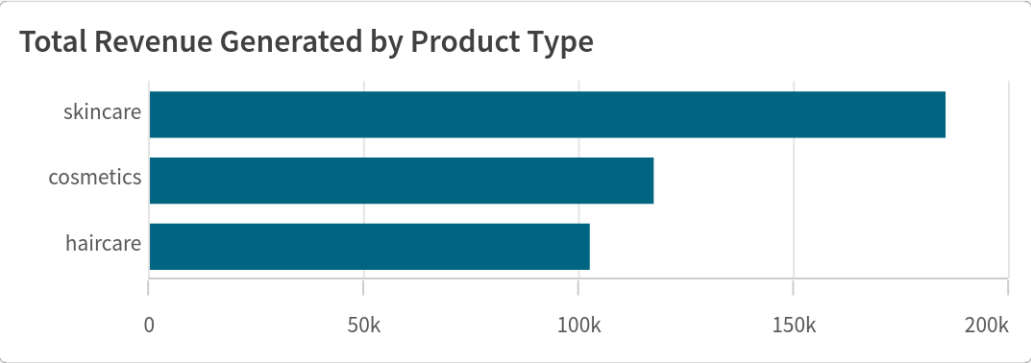
Total Number of products s...

30.89k

Location

Transportation modes

Gender



Revenue Analysis

Avg Manufacturing Costs

47.87

Average Defect Rate

2.2

Avg Manf. Lead Time

14.7

Total Production Volume

38.77k

Location

Gender

Female

Male

Non-binary

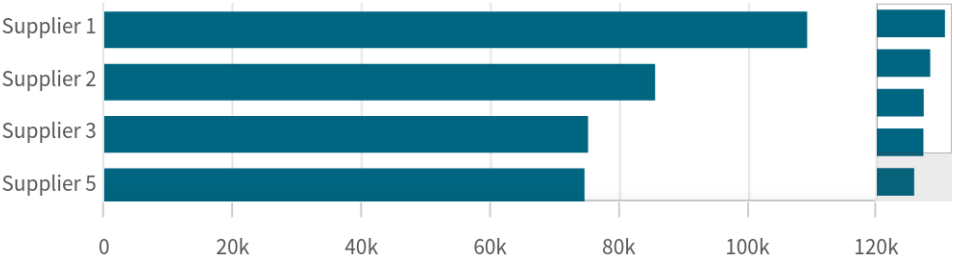
Inspection results

Fail

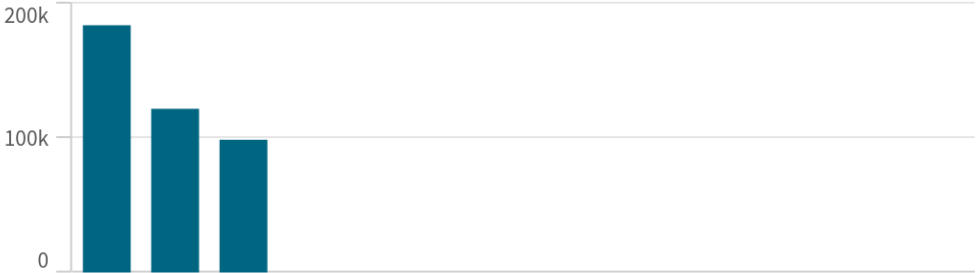
Pass

Pending

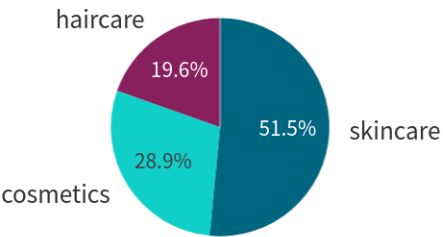
Revenue Generated by Suppliers



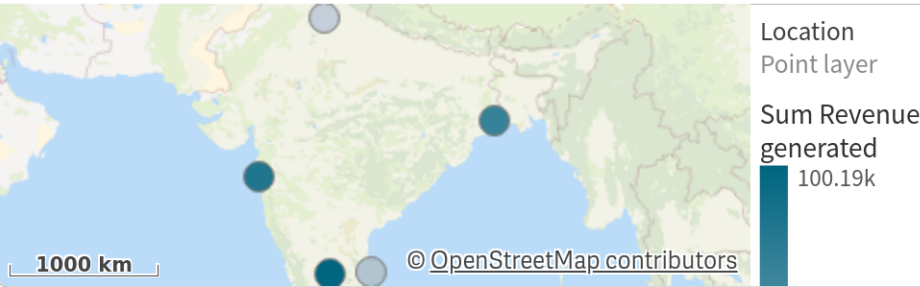
Revenue Generated by Carrier



Percentage of Sales by Product Type



Revenue Generated by Location



# Shipping Analysis

Avg. Shipping Time

5.74

Avg Lead Time

16.74

🔍 Location

Bangalore

Chennai

Delhi

Kolkata

Mumbai

🔍 Product type

cosmetics

haircare

skincare

🔍 Transportation modes

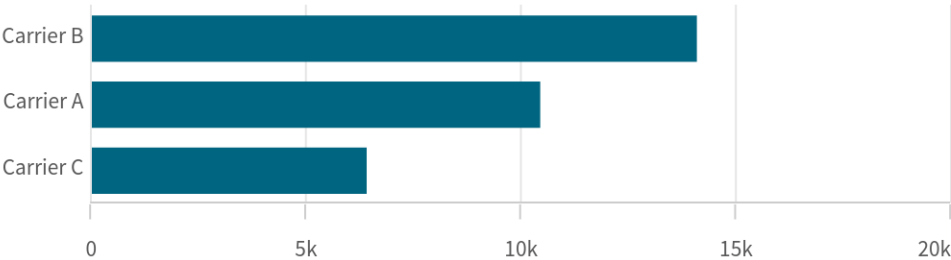
Air

Rail

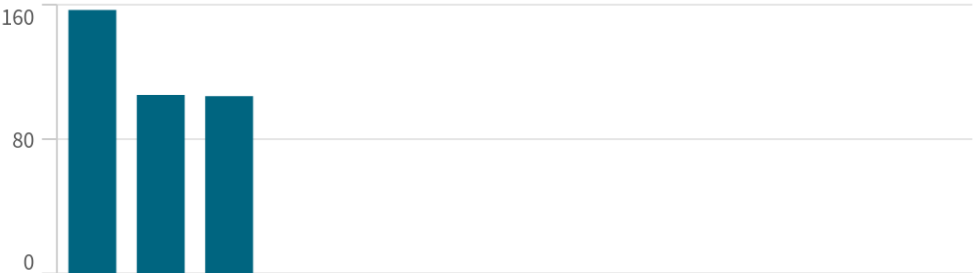
Road

Sea

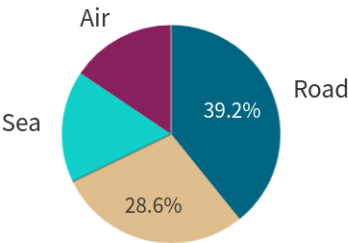
Total Products Sold by shipping Carriers



Total Shipping Cost by Carriers



Percentage of defect Rate by Transportation



Percentage of Total Price by Transportation

