

Supply Chain Management

Overview

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Filter_Category Wise

Product

All

Supplier

All

Location

All

Instructor : Rupali

Orders Processed

100

Total Revenue

577.60K

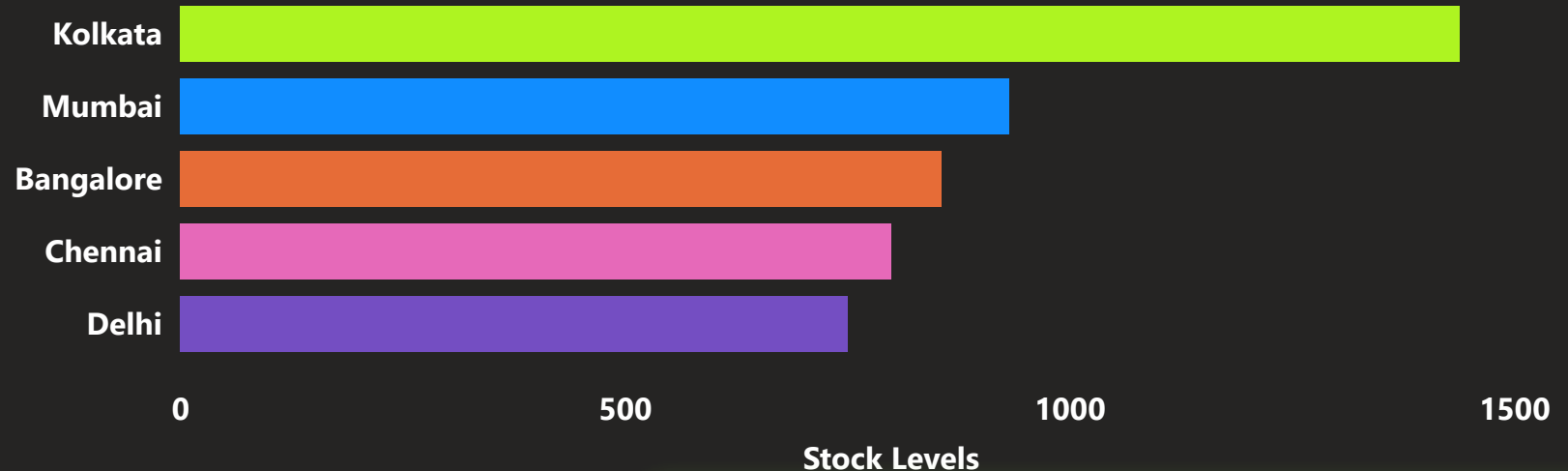
Avg Order

17.08

Inventory Cost

225.95K

Stock_Levels by Location



17-03-2025 19:34:07

Last Refresh Date

Created : Girish Kumar V

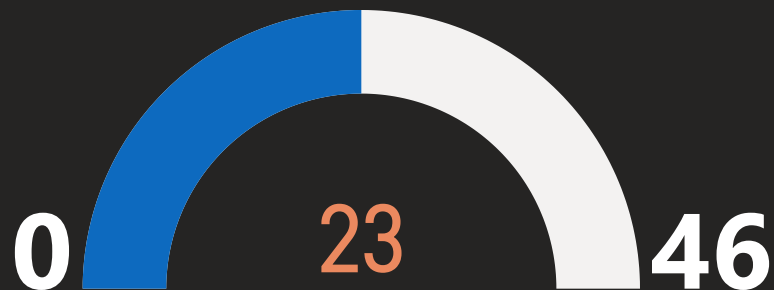
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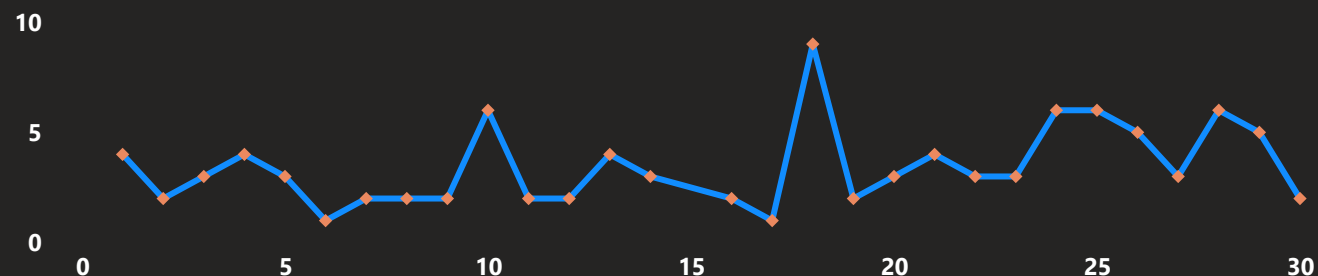
Order & Delivery Analysis

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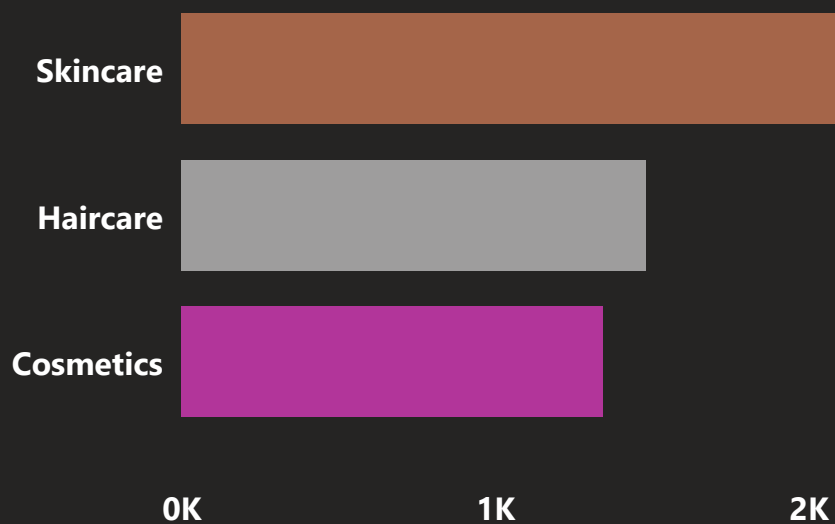
Orders Delivered on Time



Count of Supplier_Name by Lead_Time



Order_Quantities_Product



Late Delivery_Supplier

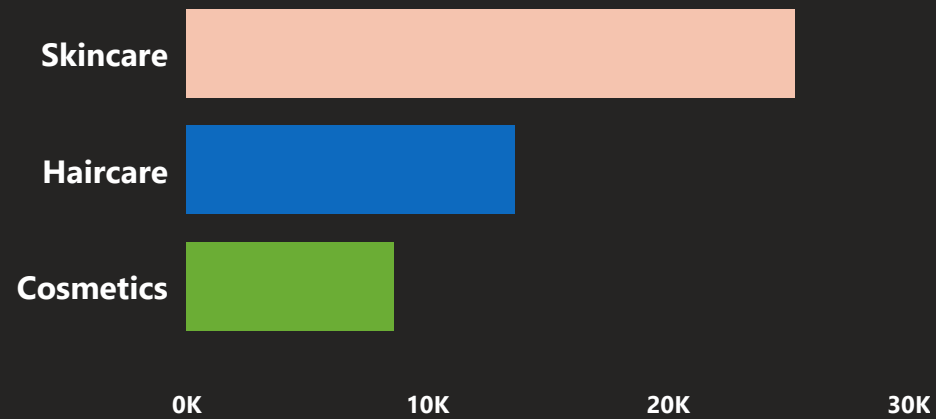


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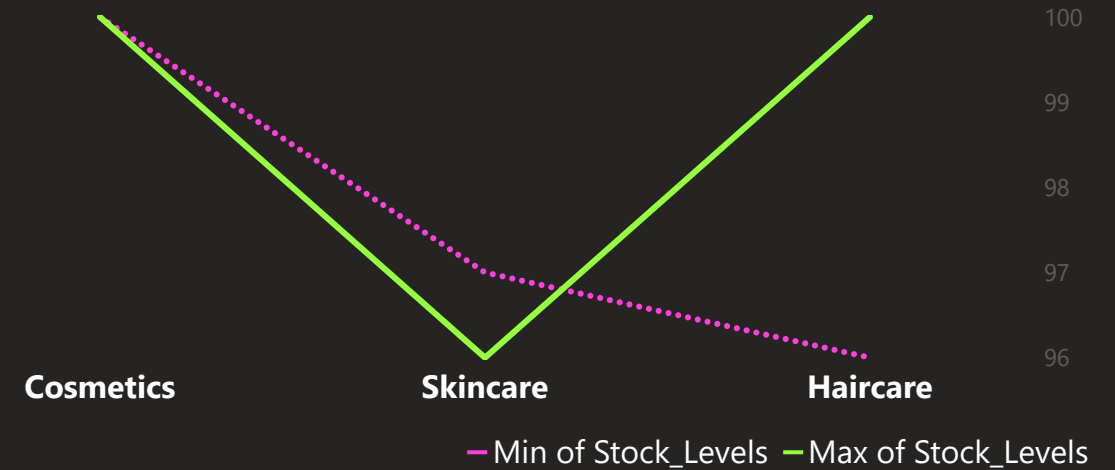
Inventory Management

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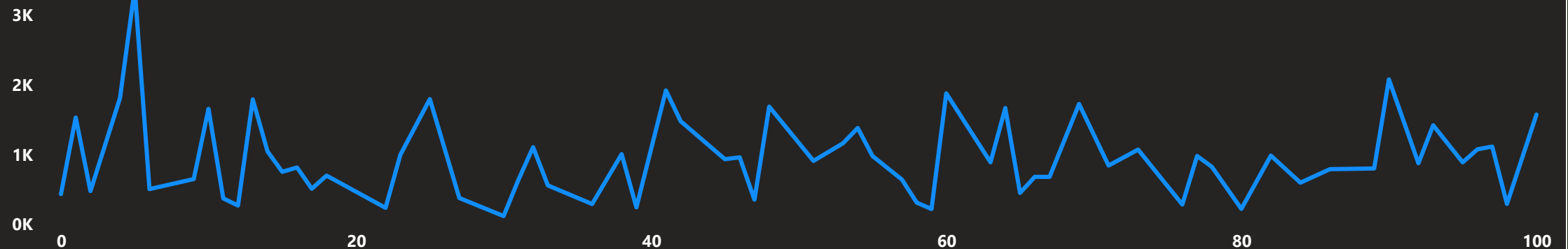
Inventory Turnover by Product_Type



Stock_Levels by Product



Safety Stock by Stock_Levels

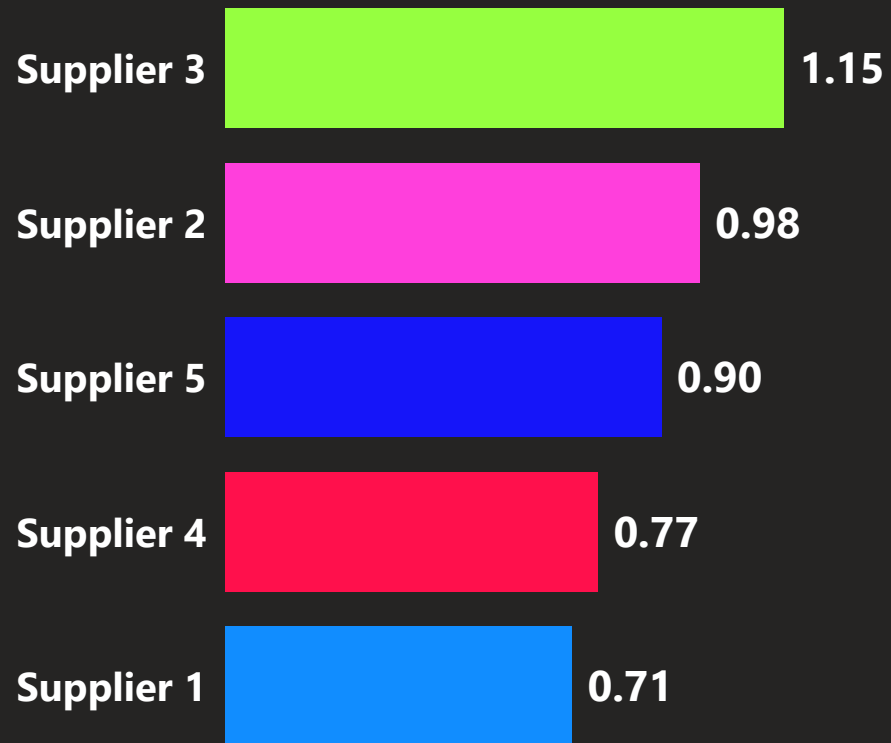


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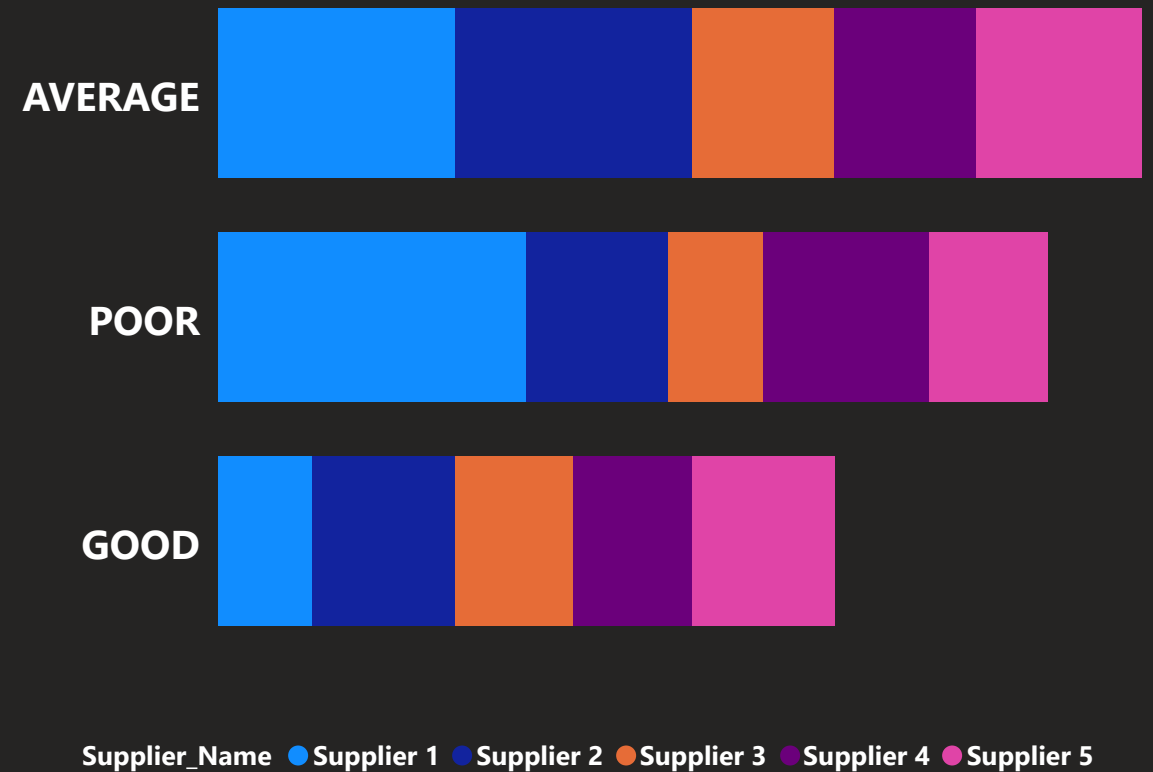
Supplier Performance

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Cost Efficiency by Supplier_Name



Supplier_Name by Rating



Key Findings & Insights

Inventory Optimization :

Kolkata has the highest stock levels (1439 units), while Delhi has the lowest (751 units).

Chennai and Mumbai show high order quantities but relatively lower stock levels, indicating potential shortages.

Supplier Reliability :

Supplier 1 has the shortest average lead time (14.8 days) and the lowest defect rate (1.8%), making it the most reliable.

Supplier 3 has the longest lead time (20.1 days) and higher defect rates (2.5%), indicating performance issues.

Delivery Efficiency :

Sea transport is the most cost-effective (\$4.97 per shipment), while air transport is the most expensive (\$6.02 per shipment).

Road and rail transport have moderate costs but show variability in efficiency.

Cost Drivers :

Average manufacturing costs: **\$47.27 per unit**

Average shipping costs: **\$5.55 per unit**

Recommendations :

Enhance Inventory Management: Implement dynamic stock reallocation to balance inventory levels across warehouses, especially in high-demand areas like Chennai and Mumbai.

Supplier Performance Monitoring: Strengthen partnerships with high-performing suppliers like Supplier 1 and reassess Supplier 3 for improvements.

Optimize Logistics: Prioritize cost-effective transport modes like sea for non-urgent shipments and refine route planning for road and rail transport.