Adidas Sales Data Analysis Report

1. Dataset Description

1.1 Source: Adidas US Sales dataset (9648 records).

1.2 Columns:

- o Retailer id Unique identifier
- Retailer_name full name (unique, some duplicates)
- o Invoice date Unique date
- Region 5 regions (West, Northeast, Southeast, South, MidWest)
- State & City– US States and City
- Product Adidas Product genre
- o Price per Unit Ranging from 50\$ to 70\$
- Units Sold Ranging from 550 to 1300
- o Total Sales Price per Unit tomes Units Sold
- Operating profit Net Profit From Total Sales

1.3 Data Quality:

- No missing values
- o Clean and consistent
- o Balanced structure with geographic and departmental diversity

1.4

2. Operations Performed

2.1 Data Cleaning & Exploration

- No missing/null values observed
- o Checked unique values in categorical columns
- o Summarized numerical columns (mean, median, standard deviation, IQR)

2.2 Descriptive Analytics

- Adidas Total Sales By Region (pie chart)
- Top Performing Cities by Profit (bar chart)
- Units Sold By Category(pie chart)
- Total Sales By Product (bar chart)

2.3 Relationship Analysis

- Total Sales per month
- o Total Sales vs. Operating Profit comparison
- Operating Profit variations by Cities

3. Key Insights

3.1 Sales Performance

• **Total Sales:** \$899.9 million

• **Total Units Sold:** 2,478,861

• Average Operating Margin: 42.3%

• Indicates strong profitability and steady sales growth across regions.

3.2 Product Insights

• Average Price per Unit: \$45.22

- Price Range: \$40–\$70, suggesting a mid-market positioning.
- Top-Selling Product: Men's Street Footwear indicates strong demand in the men's casual footwear category.
- Other key products maintain balanced contribution, showing a diverse portfolio appeal.

3.3 Regional & Retail Insights

- Top Region: West contributes the largest share of total sales.
- Regional Spread: All U.S. regions show sales activity, with the West and Northeast leading.
- Top Retailer: West Gear indicates strong retail partnerships and high brand presence.

3.4 Sales Channel Insights

- Top Sales Method: In-store dominant channel, reflecting traditional retail strength.
- Online sales still contribute meaningfully, suggesting potential for digital expansion.

3.5 Profitability Trends

- Average Operating Margin: 42.3%, indicating efficient cost management.
- Margins are likely higher for footwear compared to apparel, emphasizing product mix profitability.

4. Recommendations

4.1 Sales & Channel Strategy

- Strengthen in-store sales experience through staff training and localized promotions, as this channel currently dominates sales.
- Expand online and mobile sales channels to capture growing digital demand and diversify revenue streams.
- o Introduce omnichannel strategies (e.g., click-and-collect) to bridge online convenience with in-store engagement.

4.2 Product Portfolio Management

- o Continue investing in Men's Street Footwear, the current best-seller, while exploring similar styles in other categories.
- Evaluate lower-performing product lines for redesign or marketing push to maintain balanced growth.
- Explore premium-tier pricing opportunities in top-performing categories to enhance margins.

4.3 Regional Operations

- Investigate why the West region dominates sales may be due to stronger retail partnerships or regional marketing effectiveness.
- o Boost marketing investment in underperforming regions (e.g., Midwest or South) to expand market share.
- Consider regional inventory optimization to reduce logistic costs and improve availability in high-demand areas.

4.4 Retailer & Partner Strategy

- Strengthen collaboration with top-performing retailer West Gear through exclusive products or loyalty programs.
- o Benchmark weaker retailers to identify best practices and performance gaps.
- Diversify retailer portfolio to reduce dependency on top partners and increase market coverage.

4.5 Profitability & Pricing

- Maintain operating margin above 40% by monitoring cost structures and optimizing product mix.
- o Use data-driven pricing models to balance competitiveness with profitability.
- Periodically review discounting and promotional policies to ensure sustainable margin performance.