Exploratory Data Analysis (EDA) – Diagnostic Analysis

Product Sales Performance Analysis

How do product sales vary across different days of the week, and what insights can be drawn from the distribution of order volumes by product and day?

1. Overview

This diagnostic analysis aims to uncover meaningful patterns in product sales performance across different days of the week. By leveraging pivot tables and visual heatmaps, we explore how daily fluctuations in order volumes reflect customer purchasing behavior. The insights derived from this analysis are intended to inform strategic decisions in product stocking, marketing campaigns, and operational efficiency, ultimately driving sales growth and customer satisfaction.

2. Goal

- Understand how product sales volumes vary across the days of the week.
- Identify peak and low-performance days for each product.
- Reveal sales concentration trends to support demand forecasting.
- Provide visual insights for easier interpretation and decision-making.
- Equip sales and inventory teams with data-backed recommendations for optimizing schedules and stock levels.

3. Business Challenge

- Uneven Sales Distribution: Inconsistent sales across the week could lead to overstocking or understocking.
- Lack of Day-Specific Product Strategy: Without knowing which products sell best on which days, marketing efforts may miss key opportunities.
- Operational Inefficiency: Misaligned staffing or logistics planning due to unpredictable order volumes.
- Missed Revenue Opportunities: Failure to capitalize on high-demand days with tailored promotions or upselling.

4. Methodology

- Data Preparation: Clean and structure sales data with clear date and product columns.
- Pivot Table Creation: Generate a cross-tab view to summarize unit purchases by product and day of week.
- Visual Analysis: Build a heatmap to highlight volume intensity and uncover patterns at a glance.
- Insight Extraction: Interpret high and low sales zones to understand demand cycles.
- Strategic Recommendations: Advise stakeholders on product scheduling, inventory management, and promotional timing based on insights.

Import necessary libraries

```
In [9]: import pandas as pd
import os
import glob
```

Combine the sales data from all months into a single consolidated CSV file

```
In [11]: folder_path = r"C:\Monthly_Sales"

# Retrieve all CSV files from the folder using glob
all_files = glob.glob(os.path.join(folder_path, "*.csv"))

# All CSV files combined as one DataFrame
all_data = pd.concat([pd.read_csv(file) for file in all_files], ignore_index=True)

# Merged DataFrame saved into a new CSV
output_file = os.path.join(folder_path, "all_data.csv")
all_data.to_csv(output_file, index=False)

print("All files integrated into:", output_file)
```

All files integrated into: C:\Monthly_Sales\all_data.csv

Load the updated DataFrame

```
In [13]: # Skip Blank Rows if present in the dataset

df = pd.read_csv(r'C:\Monthly_Sales\all_data.csv', skip_blank_lines=True)
df.head()
```

Out[13]:		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address
	0	175667	iPhone	1	700.0	04/24/24 19:12	135 Meadow St, Boston, MA 02215
	1	175668	AA Batteries (4- pack)	1	5.84	04/20/24 13:45	592 4th St, San Francisco, CA 94016
	2	175669	AA Batteries (4- pack)	1	5.84	04/28/24 09:17	632 Park St, Dallas, TX 75001
	3	175670	AA Batteries (4- pack)	2	5.84	04/23/24 14:06	131 Pine St, San Francisco, CA 94016
	4	175671	Samsung Odyssey Monitor	1	409.99	04/23/24 12:13	836 Forest St, Boston, MA 02215

```
In [14]: df.shape
```

Out[14]: (9661738, 6)

Data Cleaning Process

Thoroughly clean and standardize the data to eliminate errors, ensure consistency, and build a solid foundation for meaningful insights.

Find and remove rows with NaN values

```
In [17]: df.isna().sum()
Out[17]: Order ID
                              25088
          Product Name
                              25088
          Units Purchased
                              25090
         Unit Price
                              25090
         Order Date
                              25091
          Delivery Address
                              25092
          dtype: int64
In [18]: | # If Nan value is present in Order ID and Unit Purchased, it will be impossible to
         # Therefore, drop Nan values in Order ID and Units Purchased.
         df.dropna(subset=['Order ID', 'Units Purchased'], inplace=True)
In [19]: # Check if Nan value is present
         df.isna().sum()
```

```
Out[19]: Order ID 0
Product Name 0
Units Purchased 0
Unit Price 0
Order Date 1
Delivery Address 2
dtype: int64
```

In [20]: # Further check if any NaN values or blank rows are present
blank_rows_na = df[df.isnull().any(axis=1)]
blank_rows_na

Out[20]:

•		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address
	2195228	Charging Cable	1	14.95	05/24/24 07:04	852 Hickory St, San Francisco, CA 94016	NaN
	3001506	150766	iPhone	1	7	NaN	NaN

Find and remove rows with duplicate values

```
In [22]: # Find duplicate values
         df.duplicated()
Out[22]: 0
                    False
                    False
         1
         2
                    False
         3
                    False
                    False
         9661733
                     True
         9661734
                    True
         9661735
                     True
         9661736
                     True
         9661737
                     True
         Length: 9636648, dtype: bool
In [23]: # Remove duplicated values
         df.drop_duplicates(inplace = True)
In [24]: # Check again for duplicated values
         df.duplicated()
```

```
Out[24]: 0
                     False
          1
                     False
          2
                     False
          3
                     False
                     False
          172530
                     False
          2195228
                     False
                     False
          3001506
          6370083
                     False
          6403571
                     False
          Length: 171546, dtype: bool
```

Verify and fix incorrect data types in the dataset

```
In [26]: # check for data types
         df.dtypes
Out[26]: Order ID
                             object
         Product Name
                             object
         Units Purchased
                             object
         Unit Price
                             object
         Order Date
                             object
                             object
         Delivery Address
         dtype: object
         Fix incorrect data types
In [28]:
         df['Order Date'] = pd.to_datetime(df['Order Date'], format='%m/%d/%y %H:%M', errors
         df['Units Purchased'] = pd. to_numeric(df['Units Purchased'], errors='coerce')
         df['Unit Price'] = pd. to_numeric(df['Unit Price'], errors='coerce')
In [29]: # Verify the presence of NaN values remaining in the columns as a result of using e
         df.isna().sum()
Out[29]: Order ID
                              0
         Product Name
         Units Purchased
                             1
         Unit Price
         Order Date
                              3
         Delivery Address
         dtype: int64
In [30]: df = df.dropna()
```

Change the data type to optimize memory usage (Optional)

```
In [32]: df['Order ID'] = pd.to_numeric(df['Order ID'], downcast='integer')
    df['Product Name'] = df['Product Name'].astype('category')
```

```
df['Units Purchased'] = df['Units Purchased']. astype('int8')
df['Unit Price'] = pd.to_numeric(df['Unit Price'], downcast='float')
df['Delivery Address'] = df['Delivery Address'].astype('category')
```

Expand the dataset with supplementary columns

Add month column

```
In [35]: df['Month'] = df['Order Date'].dt.month
df
```

Out[35]:		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month
	0	175667	iPhone	1	700.00000	2024-04-24 19:12:00	135 Meadow St, Boston, MA 02215	4
	1	175668	AA Batteries (4-pack)	1	5.84000	2024-04-20 13:45:00	592 4th St, San Francisco, CA 94016	4
	2	175669	AA Batteries (4-pack)	1	5.84000	2024-04-28 09:17:00	632 Park St, Dallas, TX 75001	4
	3	175670	AA Batteries (4-pack)	2	5.84000	2024-04-23 14:06:00	131 Pine St, San Francisco, CA 94016	4
	4	175671	Samsung Odyssey Monitor	1	409.98999	2024-04-23 12:13:00	836 Forest St, Boston, MA 02215	4
	•••	•••						•••
	172528	248378	Google Phone	1	600.00000	2024-09-02 08:53:00	668 Wilson St, Boston, MA 02215	9
	172529	248379	Alienware Monitor	1	400.98999	2024-09-04 22:58:00	466 2nd St, Boston, MA 02215	9
	172530	248380	AAA Batteries (4- pack)	1	4.99000	2024-09-04 13:09:00	133 Walnut St, Seattle, WA 98101	9
	6370083	252436	Apple Airpods Headphones	1	150.00000	2024-10-14 16:44:00	740 Dogwood St, Boston, \rA 02215	10
	6403571	233092	USB-C Charging Cable	1	11.95000	2024-08-28 12:39:00	740 Dogwood St, Boston, \rA 02215	8

171543 rows × 7 columns

```
In [36]: df['Month Name'] = df['Order Date'].dt.strftime('%B')
df
```

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Out[36]:		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	M ₀
-	0	175667	iPhone	1	700.00000	2024-04-24 19:12:00	135 Meadow St, Boston, MA 02215	4	
	1	175668	AA Batteries (4-pack)	1	5.84000	2024-04-20 13:45:00	592 4th St, San Francisco, CA 94016	4	
	2	175669	AA Batteries (4-pack)	1	5.84000	2024-04-28 09:17:00	632 Park St, Dallas, TX 75001	4	
	3	175670	AA Batteries (4-pack)	2	5.84000	2024-04-23 14:06:00	131 Pine St, San Francisco, CA 94016	4	
	4	175671	Samsung Odyssey Monitor	1	409.98999	2024-04-23 12:13:00	836 Forest St, Boston, MA 02215	4	
	•••								
	172528	248378	Google Phone	1	600.00000	2024-09-02 08:53:00	668 Wilson St, Boston, MA 02215	9	Septer
	172529	248379	Alienware Monitor	1	400.98999	2024-09-04 22:58:00	466 2nd St, Boston, MA 02215	9	Septer
	172530	248380	AAA Batteries (4- pack)	1	4.99000	2024-09-04 13:09:00	133 Walnut St, Seattle, WA 98101	9	Septer
	6370083	252436	Apple Airpods Headphones	1	150.00000	2024-10-14 16:44:00	740 Dogwood St, Boston, \rA 02215	10	Oct

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	Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	M ₁
6403571	233092	USB-C Charging Cable	1	11.95000	2024-08-28 12:39:00	740 Dogwood St, Boston, \rA 02215	8	Αι

171543 rows × 8 columns

Add week day column

```
In [38]: df['Day of Week'] = df['Order Date'].dt.strftime('%a')
df
```

Out	[38]	1

8]:		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	M ₁
_	0	175667	iPhone	1	700.00000	2024-04-24 19:12:00	135 Meadow St, Boston, MA 02215	4	
	1	175668	AA Batteries (4-pack)	1	5.84000	2024-04-20 13:45:00	592 4th St, San Francisco, CA 94016	4	
	2	175669	AA Batteries (4-pack)	1	5.84000	2024-04-28 09:17:00	632 Park St, Dallas, TX 75001	4	
	3	175670	AA Batteries (4-pack)	2	5.84000	2024-04-23 14:06:00	131 Pine St, San Francisco, CA 94016	4	
	4	175671	Samsung Odyssey Monitor	1	409.98999	2024-04-23 12:13:00	836 Forest St, Boston, MA 02215	4	
	•••	•••							
	172528	248378	Google Phone	1	600.00000	2024-09-02 08:53:00	668 Wilson St, Boston, MA 02215	9	Septer
	172529	248379	Alienware Monitor	1	400.98999	2024-09-04 22:58:00	466 2nd St, Boston, MA 02215	9	Septer
	172530	248380	AAA Batteries (4- pack)	1	4.99000	2024-09-04 13:09:00	133 Walnut St, Seattle, WA 98101	9	Septer
	6370083	252436	Apple Airpods Headphones	1	150.00000	2024-10-14 16:44:00	740 Dogwood St, Boston, \rA 02215	10	Oct

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	Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	M ₁
6403571	233092	USB-C Charging Cable	1	11.95000	2024-08-28 12:39:00	740 Dogwood St, Boston, \rA 02215	8	Aι

171543 rows × 9 columns

Add hour column

```
In [40]: df['Hour'] = df['Order Date'].dt.hour
df
```

\cap $+$	1 /1/2	
out	140	

•		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	M ₁ N
	0	175667	iPhone	1	700.00000	2024-04-24 19:12:00	135 Meadow St, Boston, MA 02215	4	
	1	175668	AA Batteries (4-pack)	1	5.84000	2024-04-20 13:45:00	592 4th St, San Francisco, CA 94016	4	
	2	175669	AA Batteries (4-pack)	1	5.84000	2024-04-28 09:17:00	632 Park St, Dallas, TX 75001	4	
	3	175670	AA Batteries (4-pack)	2	5.84000	2024-04-23 14:06:00	131 Pine St, San Francisco, CA 94016	4	
	4	175671	Samsung Odyssey Monitor	1	409.98999	2024-04-23 12:13:00	836 Forest St, Boston, MA 02215	4	
	•••	•••							
	172528	248378	Google Phone	1	600.00000	2024-09-02 08:53:00	668 Wilson St, Boston, MA 02215	9	Septer
	172529	248379	Alienware Monitor	1	400.98999	2024-09-04 22:58:00	466 2nd St, Boston, MA 02215	9	Septer
	172530	248380	AAA Batteries (4- pack)	1	4.99000	2024-09-04 13:09:00	133 Walnut St, Seattle, WA 98101	9	Septer
6	370083	252436	Apple Airpods Headphones	1	150.00000	2024-10-14 16:44:00	740 Dogwood St, Boston, \rA 02215	10	Oct

	Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	M ₁
6403571	233092	USB-C Charging Cable	1	11.95000	2024-08-28 12:39:00	740 Dogwood St, Boston, \rA 02215	8	Αι

171543 rows × 10 columns

Add city column

```
In [42]: def city(address):
    return address.split(",")[1].strip(" ")

def state_abbrev(address):
    return address.split(",")[2].split(" ")[1]

df['City'] = df['Delivery Address'].apply(lambda x: f"{city(x)} ({state_abbrev(x)})
    df.head()
```

out[42]:		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	Month Name	Day of Week
	0	175667	iPhone	1	700.00000	2024-04-24 19:12:00	135 Meadow St, Boston, MA 02215	4	April	Wed
	1	175668	AA Batteries (4-pack)	1	5.84000	2024-04-20 13:45:00	592 4th St, San Francisco, CA 94016	4	April	Sat
	2	175669	AA Batteries (4-pack)	1	5.84000	2024-04-28 09:17:00	632 Park St, Dallas, TX 75001	4	April	Sun
	3	175670	AA Batteries (4-pack)	2	5.84000	2024-04-23 14:06:00	131 Pine St, San Francisco, CA 94016	4	April	Tue
	4	175671	Samsung Odyssey Monitor	1	409.98999	2024-04-23 12:13:00	836 Forest St, Boston, MA 02215	4	April	Tue

Organize Data by Order Date Chronologically and Reindex

```
In [44]: df = df.sort_values(by = 'Order Date')
df
```

Out[44]:

•		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	Month Name
	78282	160155	Alienware Monitor	1	400.989990	2024-01-01 05:04:00	765 Ridge St, Portland, OR 97035	1	January
	68761	151041	AAA Batteries (4- pack)	1	4.990000	2024-01-01 05:04:00	964 Lakeview St, Atlanta, GA 30301	1	January
	64303	146765	AAA Batteries (4- pack)	1	4.990000	2024-01-01 05:20:00	546 10th St, San Francisco, CA 94016	1	January
	63092	145617	Amana Washing Machine	1	600.000000	2024-01-01 05:24:00	961 Meadow St, Portland, OR 97035	1	January
	74502	156535	iPhone	1	700.000000	2024-01-01 05:45:00	451 Elm St, Los Angeles, CA 90001	1	January
	•••								
	44457	297748	iPhone	1	700.000000	2025-01-01 02:37:00	258 Forest St, Los Angeles, CA 90001	1	January
	30663	284606	Bose SoundSport Headphones	1	99.989998	2025-01-01 02:50:00	211 Johnson St, Boston, MA 02215	1	January
	49246	302330	AA Batteries (4-pack)	1	5.840000	2025-01-01 03:03:00	665 6th St, San Francisco, CA 94016	1	January
	30770	284711	AA Batteries (4-pack)	1	5.840000	2025-01-01 03:19:00	250 8th St, San Francisco, CA 94016	1	January

	Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	Month Name
50619	303626	USB-C Charging Cable	3	11.950000	2025-01-01 04:43:00	651 Lakeview St, Dallas, TX 75001	1	January

171543 rows × 11 columns

Out[45]:

]:		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	Mont Nam
	0	160155	Alienware Monitor	1	400.989990	2024-01-01 05:04:00	765 Ridge St, Portland, OR 97035	1	Januar
	1	151041	AAA Batteries (4- pack)	1	4.990000	2024-01-01 05:04:00	964 Lakeview St, Atlanta, GA 30301	1	Januar
	2	146765	AAA Batteries (4- pack)	1	4.990000	2024-01-01 05:20:00	546 10th St, San Francisco, CA 94016	1	Januar
	3	145617	Amana Washing Machine	1	600.000000	2024-01-01 05:24:00	961 Meadow St, Portland, OR 97035	1	Januar
	4	156535	iPhone	1	700.000000	2024-01-01 05:45:00	451 Elm St, Los Angeles, CA 90001	1	Januar
	•••								
	171538	297748	iPhone	1	700.000000	2025-01-01 02:37:00	258 Forest St, Los Angeles, CA 90001	1	Januar
	171539	284606	Bose SoundSport Headphones	1	99.989998	2025-01-01 02:50:00	211 Johnson St, Boston, MA 02215	1	Januar
	171540	302330	AA Batteries (4-pack)	1	5.840000	2025-01-01 03:03:00	665 6th St, San Francisco, CA 94016	1	Januar
	171541	284711	AA Batteries (4-pack)	1	5.840000	2025-01-01 03:19:00	250 8th St, San Francisco, CA 94016	1	Januar

	Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	Mont Nam
171542	303626	USB-C Charging Cable	3	11.950000	2025-01-01 04:43:00	651 Lakeview St, Dallas, TX 75001	1	Januar

171543 rows × 11 columns

Add Total Sales column

```
In [47]: df['Total Sales'] = df['Units Purchased'] * df['Unit Price']
df.head()
```

[47]:		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	Month Name	Day of Week
	0	160155	Alienware Monitor	1	400.98999	2024-01-01 05:04:00	765 Ridge St, Portland, OR 97035	1	January	Mon
	1	151041	AAA Batteries (4-pack)	1	4.99000	2024-01-01 05:04:00	964 Lakeview St, Atlanta, GA 30301	1	January	Mon
	2	146765	AAA Batteries (4-pack)	1	4.99000	2024-01-01 05:20:00	546 10th St, San Francisco, CA 94016	1	January	Mon
	3	145617	Amana Washing Machine	1	600.00000	2024-01-01 05:24:00	961 Meadow St, Portland, OR 97035	1	January	Mon
	4	156535	iPhone	1	700.00000	2024-01-01 05:45:00	451 Elm St, Los Angeles, CA 90001	1	January	Mon

Format Unit Price and Total Sales to 2 decimal places

```
In [49]: df['Unit Price'] = df['Unit Price'].apply(lambda x: "%.2f" % x)
```

Out

t[50]:		Order ID	Product Name	Units Purchased	Unit Price	Order Date	Delivery Address	Month	Month Name	Day of Week	Нс
	0	160155	Alienware Monitor	1	400.99	2024-01-01 05:04:00	765 Ridge St, Portland, OR 97035	1	January	Mon	
	1	151041	AAA Batteries (4-pack)	1	4.99	2024-01-01 05:04:00	964 Lakeview St, Atlanta, GA 30301	1	January	Mon	
	2	146765	AAA Batteries (4-pack)	1	4.99	2024-01-01 05:20:00	546 10th St, San Francisco, CA 94016	1	January	Mon	
	3	145617	Amana Washing Machine	1	600.00	2024-01-01 05:24:00	961 Meadow St, Portland, OR 97035	1	January	Mon	
	4	156535	iPhone	1	700.00	2024-01-01 05:45:00	451 Elm St, Los Angeles, CA 90001	1	January	Mon	

Format Unit Price and Total Sales to numeric

```
In [52]: df['Unit Price'] = pd.to_numeric(df['Unit Price'])
    df['Total Sales'] = pd.to_numeric(df['Total Sales'])
```

Pivot Table

Out[54]:	Day of Week	Fri	Mon	Sat	Sun	Thu	Tue	Wed
	Product Name							
	AA Batteries (4-pack)	3262	3329	3368	3174	3205	3294	3198
	AAA Batteries (4-pack)	3347	3519	3448	3457	3362	3485	3352
	Alienware Monitor	581	560	570	564	509	556	521
	Amana Dryer	94	106	89	87	85	88	73
	Amana Washing Machine	88	99	92	90	77	75	90
	Apple Airpods Headphones	2053	2166	2000	2096	1985	2082	2063
	Bose SoundSport Headphones	1729	1919	1768	1789	1695	1795	1691
	Dell Laptop	537	564	560	546	516	541	534
	Dell UltraSharp Monitor	827	807	814	898	806	860	808
	Flatscreen TV	609	662	646	604	625	629	647
	Galaxy buds Headphones	2522	2514	2476	2470	2306	2608	2488
	Google Phone	749	771	710	701	734	775	734
	LG UltraGear Monitor	1010	1018	1045	1000	1003	998	1022
	Lightning Charging Cable	3050	3062	3006	3127	3026	3205	2966
	Macbook Pro Laptop	638	577	623	633	598	666	609
	Samsung Galaxy Phone	277	275	271	269	256	253	258
	Samsung Odyssey Monitor	841	802	792	816	772	837	881
	USB-C Charging Cable	3096	3203	3089	3120	3052	3189	3178
	iPhone	949	941	875	917	875	923	814

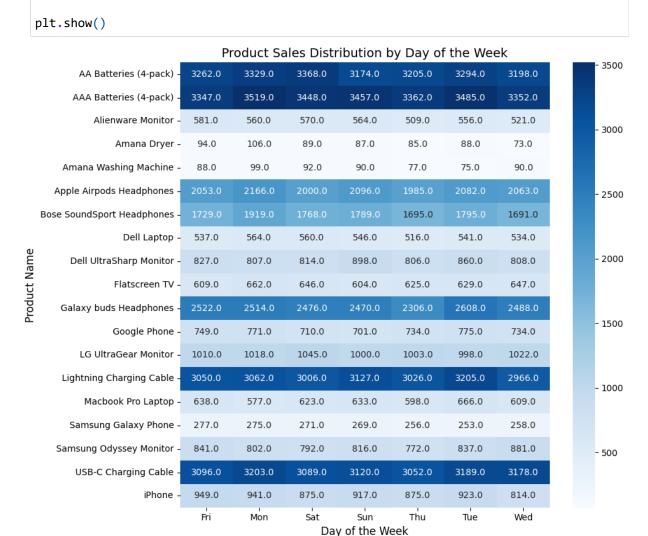
Plot Product Sales Distribution by Day of the Week

```
In [55]: import matplotlib.pyplot as plt
import matplotlib.ticker as ticker
import seaborn as sns

plt.figure(figsize=(10, 8))
    sns.heatmap(pivot_table, annot = True, cmap = 'Blues', fmt='.1f', annot_kws={'size'}

plt.title('Product Sales Distribution by Day of the Week', fontsize=14)
    plt.xlabel('Day of the Week', fontsize=12)
    plt.ylabel('Product Name', fontsize=12)

plt.tight_layout()
    plt.savefig(r"C:/Users/DELL/OneDrive - COVENANT UNIVERSITY/Desktop/1/Product Sales
```



Key Insights

- 1. High-Demand Essentials Stay Consistent All Week: AAA & AA Batteries, Lightning/USB-C Charging Cables, and Galaxy Buds maintain consistently high sales across all days essential, everyday items with minimal day-of-week fluctuation.
- Headphones Show Slight Weekend Preference: Apple Airpods, Galaxy Buds, and Bose Headphones see mild sales bumps on weekends (Sat-Sun) — likely driven by leisure time, gifting, or casual shopping.
- 3. Monitors & Laptops Lean Toward Early Week Activity: Alienware, LG UltraGear, and Samsung Odyssey Monitors show slightly better performance on Mondays and Tuesdays, possibly reflecting corporate or productivity-driven purchases.
- 4. Smartphones Steady but Subtle Decline Midweek: Products like iPhone, Google Phone, and Samsung Galaxy display more stable demand, though there's a minor dip midweek (especially for iPhones on Wed: 814, the lowest).

- 5. Large Appliances Are Low Volume Overall: Amana Dryers & Washing Machines have low sales throughout the week, with slightly better traction on Mondays, which might suggest weekend browsing and Monday decision-making.
- 6. Weekend Electronics Spike: Flatscreen TVs and Dell UltraSharp Monitors peak subtly on Sunday (TV: 604 → 898 for monitor), pointing to consumer behavior around weekend entertainment or research-buying patterns.

Strategic Recommendations

- 1. Optimize Inventory Based on Product Consistency
- Maintain steady stock levels for essentials like charging cables and batteries throughout the week.
- Automate inventory reorder alerts for these top movers.
- 2. Launch Targeted Promotions by Day/Product
- Push headphone and gadget promotions on weekends to align with consumer browsing behavior.
- Offer Monday discounts on laptops/monitors to catch productivity-driven buyers.
- 3. Re-evaluate Shelf and Online Placement for Low Performers
- Low-volume appliances may benefit from bundling strategies or financing offers promoted early in the week.
- 4. Align Ad Spend and Email Campaigns with Peak Days
- Promote tech accessories midweek and larger electronics toward the weekend.
- Use weekend email marketing to spotlight headphones, entertainment tech, and leisurerelated items.

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