

Weather-Driven Demand® for AI Environments

Fuel your AI-powered conversational chatbot with Weather-Driven Demand® (WDD®) analytics. WDD metrics isolate and quantify the impact of weather changes on the demand for specific product and service categories, traffic levels, or total transactions. Forward-looking WDD analytics show when, where, and how much weather-driven opportunities and risks are expected across the business and in specific markets. Actualized WDD analytics provide a weather-adjusted perspective for performance analysis, allowing companies to better evaluate sales results, campaign performance, and more.

Planalytics Model Context Protocol (MCP)

If your business wants to enhance an existing in-house assistant or a standard market Large Language Model (image shows an example from Claude), you can integrate the Planalytics Model Context Protocol (MCP) to incorporate WDD intelligence.

- Adds intelligence, not an interface
- Deploys faster with minimal disruption
- Ideal for enriching an existing chatbot with insights

Full Bot (PwC)

If your company is seeking an outsourced, ready-to-use, end-to-end bot, a PwC-built solution is available.

- Owns the entire experience (UI, logic, intelligence)
- Best for replacing or standardizing the chatbot experience

MCP

- How did weather impact Heaters performance in the Northeast during December 2025?

Heaters Industry - December 2025 Performance in Northeast
December 2025 WDD: +23.7% vs normal

Weather Impact Analysis:
December 2025 showed **exceptionally strong weather-driven demand** for heaters in the Northeast, with demand running nearly 24% above normal levels. This was significantly colder-than-expected weather for the holiday season.

Q4 2025 Context:

- **October 2025:** +2.1% vs normal
- **November 2025:** +3.4% vs normal
- **December 2025:** +23.7% vs normal
- **Q4 Total:** ~+29% cumulative uplift

Key Observations:

1. **December was dramatically colder** - The +23.7% uplift is substantial and indicates much colder-than-normal conditions during the crucial holiday shopping and heating season.
2. **Accelerating cold trend** - The progression from October (+2.1%) to November (+3.4%) to December (+23.7%) shows weather conditions getting progressively colder relative to seasonal norms as winter set in.
3. **Strong retailer impact** - This would have created significant demand surges for space heaters, heating equipment, and related products during the peak retail season.
4. **Inventory implications** - Retailers with adequate heater inventory likely saw strong sell-through and margin performance, while those with limited stock may have missed opportunity.

Product Demand Forecasting Insights
Charlotte, nc, North Carolina
STORE MANAGER

Weather Impact Highlights
Weather Type: Normal
08 Nov, 2025 to 15 Nov, 2025 Multiple fast-selling items out of stock; restocking needed for next week.

Weather Demand Forecast (08 Nov, 2025 to 15 Nov, 2025)
22.1% Smoothies demand, -24.2% Desserts demand

Inventory & Stocking (08 Nov, 2025 to 15 Nov, 2025)
• Bottled Water - Out of stock
• Tomatoes - Out of stock
• Salads - Out of stock

Alert - Multiple fast-selling items (Bottled Water, Tomatoes, Salads) are out of stock for next week. Immediate replenishment is required.

Upcoming Event - Store ST2700 for week end from 11-09-2025 to 11-15-2025
→ Veterans Day on 2025-11-11 - National Holiday ahead.

Overall WDD Outlook - Store ST2700 for week end from 11-09-2025 to 11-15-2025
→ +0.95% weather-driven demand vs normal.

Top WDD Category - Store ST2700 for week end from 11-09-2025 to 11-15-2025
→ +19.50% surge expected for Total Fleece

Restock Priority - Next Week (Store ST2700) for week end from 11-09-2025 to 11-15-2025
→ 79 extra Smoothies units needed; (\$435.39) revenue at risk.

Event Stock Check - Veterans Day Top Seller (Store ST2700) for week end from 11-09-2025 to 11-15-2025
→ 0 units of Coffee & Tea in stock vs 583 sold last Veterans Day.

Largest Product Sales Change - week end from 11-09-2025 to 11-15-2025 vs prior week (Store ST2700)
↑ 100% vs last week
Firewood demand doubled
Firewood sales jumped from 36 units last week to

FAQ Chat History U

U USER SM-1
What was the best selling apparel item last week?

D Demand Forecasting Agent

Sales Analysis - Category View
Ordered by: Revenue (\$) (desc, nulls last)
Total records: 14

| CATEGORY | SALES UNITS | REVENUE (\$) | DISCOUNT (\$) | REVENUE BEFORE DISCOUNT (\$) |
|-----------------------|-------------|--------------|---------------|------------------------------|
| Apparel Sector | 35 | \$971.25 | \$112.00 | \$859.25 |
| Total Fleece | 43 | \$946.00 | \$62.00 | \$884.00 |
| Total Boots | 38 | \$2,090.00 | \$110.00 | \$1,980.00 |
| Total Shorts | 24 | \$384.00 | \$51.00 | \$333.00 |
| Total Sandals | 21 | \$378.00 | \$54.00 | \$324.00 |

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