Controls

Anomaly types

pct_spike ✕
abs_jump ✕
vol_breakout ✕
mean_reve... ✕

⊗ ⌄

Severity levels

HIGH ✕
MED ✕
⊗ ⌄
LOW ✕

Show last N anomalies

100
●———————————

ℹ️ What do these anomalies mean? ⌄

pct_spike – sudden % move in price over a short time window.
abs_jump – large absolute $move (e.g., \geq$ 30 in ≤ 10 seconds).
vol_breakout – move larger than normal volatility (e.g., ≥ 3 × σ of returns).
mean_reversion_break – price stays unusually far from its recent mean.

Severity:

- **HIGH** → pct_spike or abs_jump
- **MED** → vol_breakout
- **LOW** → only mean_reversion_break

📈 Real-Time Bitcoin Anomaly Detection Dashboard

Kafka → Spark Structured Streaming → JSON → Streamlit

> 🚨 **Latest HIGH severity anomaly**
>
> - Time: **2025-11-20 15:28:15**
> - Price: **$86,795.31**
> - Δ%: **+0.0392%**
> - Δ$: **+33.98**
> - Types: **abs_jump, vol_breakout**

Last price	Last Δ%	Last Δ$	Total anomalies loaded
$86,908.08	**+0.0047%**	**+4.12**	**547**
	↑ +0.0047 pp	↑ +4.12	

📊 Overview   📉 Time Series   📋 **Table & Export**

Recent anomalies (filtered view)

	↓ time	price ($)	Δ% (%)	Δ$	severity	main_type
546	2025-11-20 15:32:21	86908.08	0.0047	4.12	LOW	mean_reversion_break
545	2025-11-20 15:32:18	86860.48	-0.0017	-1.5	LOW	mean_reversion_break
544	2025-11-20 15:31:53	86904	0.0063	5.44	LOW	mean_reversion_break
543	2025-11-20 15:31:27	86979.48	0.0055	4.76	LOW	mean_reversion_break
541	2025-11-20 15:31:07	86946.16	0.0056	4.83	LOW	mean_reversion_break
542	2025-11-20 15:31:07	86955.67	0.0097	8.41	LOW	mean_reversion_break
540	2025-11-20 15:30:39	86960.4	-0.0188	-16.35	MED	vol_breakout
539	2025-11-20 15:30:19	86997.42	0.0039	3.35	LOW	mean_reversion_break
537	2025-11-20 15:30:07	86956.47	-0.0056	-4.86	LOW	mean_reversion_break
538	2025-11-20 15:30:07	86946.17	-0.0068	-5.91	LOW	mean_reversion_break
536	2025-11-20 15:30:04	86988	0.023	20	MED	vol_breakout

💾 Download current anomalies as CSV

Use this table to drill down into individual anomalies.
You can export the current view to CSV for further analysis in Jupyter, Excel, or other tools.