Configuration

Data Range (Days)

30

Min Earthquake Magnitude

3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

🌎 Earthquake Frequency vs. Global News Sentiment

Fetching USGS Earthquake data (M ≥ 3.0) for the last 30 days...

Generating synthetic daily news sentiment for the last 30 days using Gemini...

Correlation Analysis

Data Mapped: Nov 12 to Dec 12 (Total Days: 31)

Pearson Correlation (Quakes vs. Sentiment): `0.6761` (A number close to 0 means no linear relationship.)

Configuration

Data Range (Days)

30

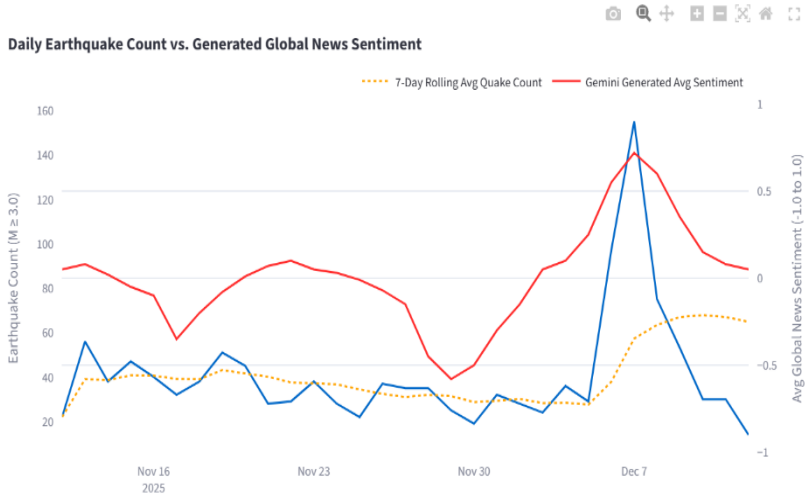
Min Earthquake Magnitude

3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Time Series: Quake Count, Rolling Average, and Sentiment



Configuration

Data Range (Days)

30

Min Earthquake Magnitude

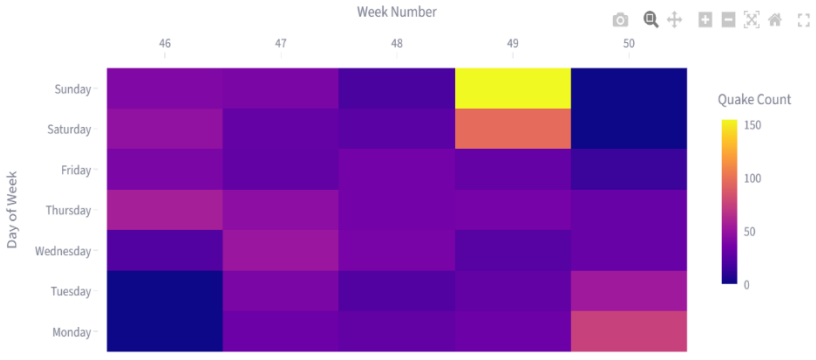
3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Seismic Activity Heatmap (Weekly Count)

Visualizing the distribution of daily earthquake count across the entire selected time period.



Configuration

Data Range (Days)

30

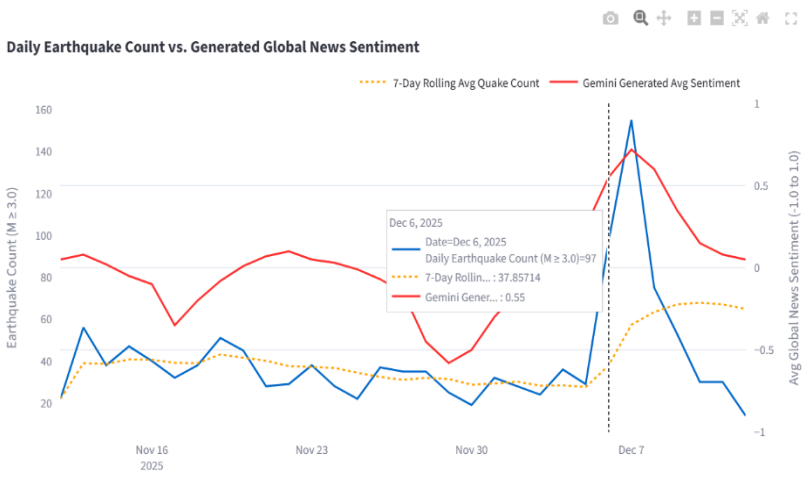
Min Earthquake Magnitude

3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Time Series: Quake Count, Rolling Average, and Sentiment



Configuration

Data Range (Days)

30

Min Earthquake Magnitude

3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Raw Data Preview

	Date	Earthquake_Count	Rolling_Avg_Count	Max_Magnitude	Avg_Sentiment
21	2025-12-03 00:00:00	24	28.2857	5	0.05
22	2025-12-04 00:00:00	36	28.4286	5.8	0.1
23	2025-12-05 00:00:00	29	27.5714	5.5	0.25
24	2025-12-06 00:00:00	97	37.8571	7	0.55
25	2025-12-07 00:00:00	155	57.2857	5.6	0.72
26	2025-12-08 00:00:00	75	63.4286	7.6	0.6
27	2025-12-09 00:00:00	53	67	5.3	0.35
28	2025-12-10 00:00:00	30	67.8571	5.7	0.15
29	2025-12-11 00:00:00	30	67	5.1	0.08
30	2025-12-12 00:00:00	14	64.8571	6.7	0.05

Configuration

Data Range (Days)

17

Min Earthquake Magnitude

2.50

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Raw Data Preview

Download as CSV

	Date	Earthquake_Count	Rolling_Avg_Count	Max_Magnitude	Avg_Sentiment
8	2025-12-03 00:00:00	32	36.7143	5	-0.48
9	2025-12-04 00:00:00	47	37.4286	5.8	-0.25
10	2025-12-05 00:00:00	36	36.2857	5.5	0.65
11	2025-12-06 00:00:00	127	49.2857	7	0.52
12	2025-12-07 00:00:00	224	77	5.6	0.2
13	2025-12-08 00:00:00	149	92.5714	7.6	0.1
14	2025-12-09 00:00:00	76	98.7143	5.3	-0.15
15	2025-12-10 00:00:00	53	101.7143	5.7	-0.55
16	2025-12-11 00:00:00	48	101.8571	5.1	-0.3
17	2025-12-12 00:00:00	22	99.8571	6.7	-0.1

Configuration

Data Range (Days)

17

Min Earthquake Magnitude

2.50

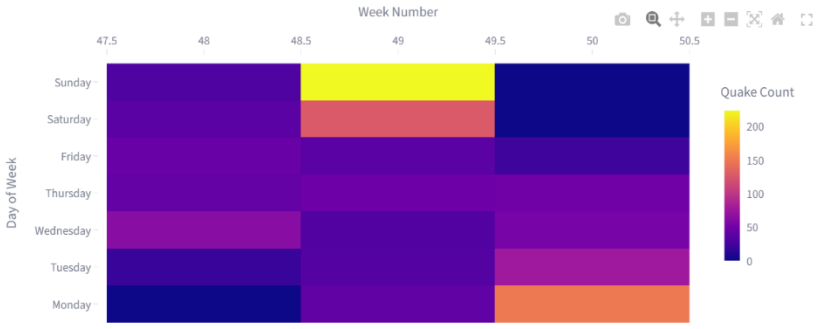
Project Creator: Ankit Thakur

Data: USGS & Gemini API

Nov 26 2025 Nov 28 Nov 30 Dec 2 Dec 4 Dec 6 Dec 8 Dec 10 Dec 12

Seismic Activity Heatmap (Weekly Count)

Visualizing the distribution of daily earthquake count across the entire selected time period.



Configuration

Data Range (Days)

17

Min Earthquake Magnitude

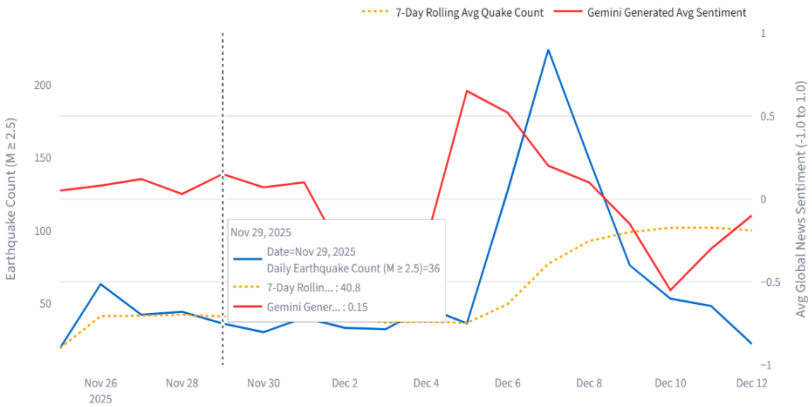
2.50

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Time Series: Quake Count, Rolling Average, and Sentiment

Daily Earthquake Count vs. Generated Global News Sentiment



Configuration

Data Range (Days)

15

Min Earthquake Magnitude

3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Fetching USGS Earthquake data (M ≥ 3.0) for the last 15 days...

Generating synthetic daily news sentiment for the last 15 days using Gemini...

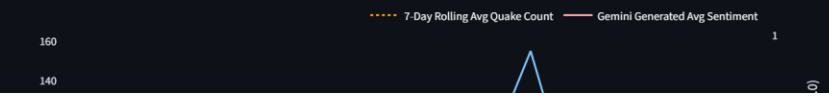
Correlation Analysis

Data Mapped: Nov 27 to Dec 12 (Total Days: 16)

Pearson Correlation (Quakes vs. Sentiment): `0.2513` (A number close to 0 means no linear relationship.)

Time Series: Quake Count, Rolling Average, and Sentiment

Daily Earthquake Count vs. Generated Global News Sentiment



Configuration

Data Range (Days)

15

Min Earthquake Magnitude

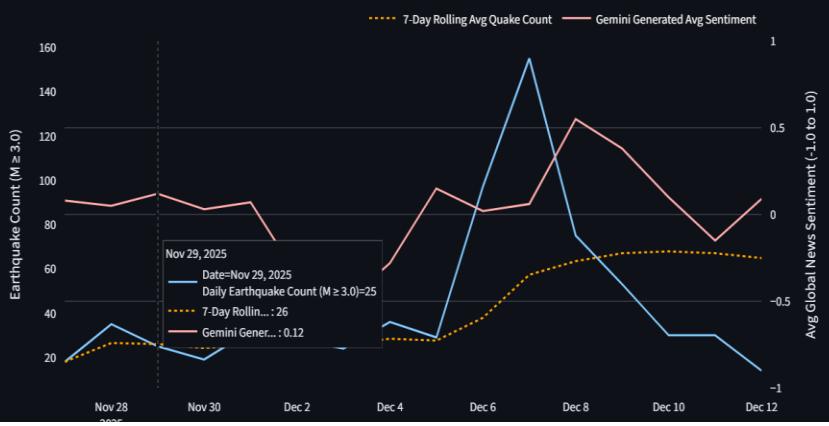
3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Time Series: Quake Count, Rolling Average, and Sentiment

Daily Earthquake Count vs. Generated Global News Sentiment



Configuration

Data Range (Days)

15

Min Earthquake Magnitude

3.00

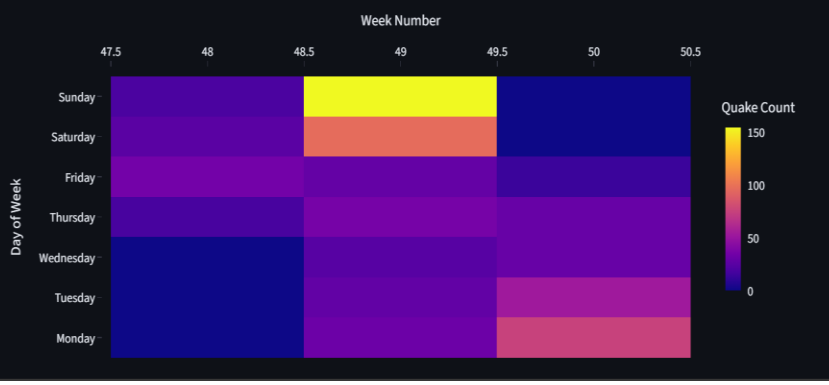
Project Creator: Ankit Thakur

Data: USGS & Gemini API

Nov 28
2025
Nov 30
Dec 2
Dec 4
Dec 6
Dec 8
Dec 10
Dec 12

Seismic Activity Heatmap (Weekly Count)

Visualizing the distribution of daily earthquake count across the entire selected time period.



Configuration

Data Range (Days)

49

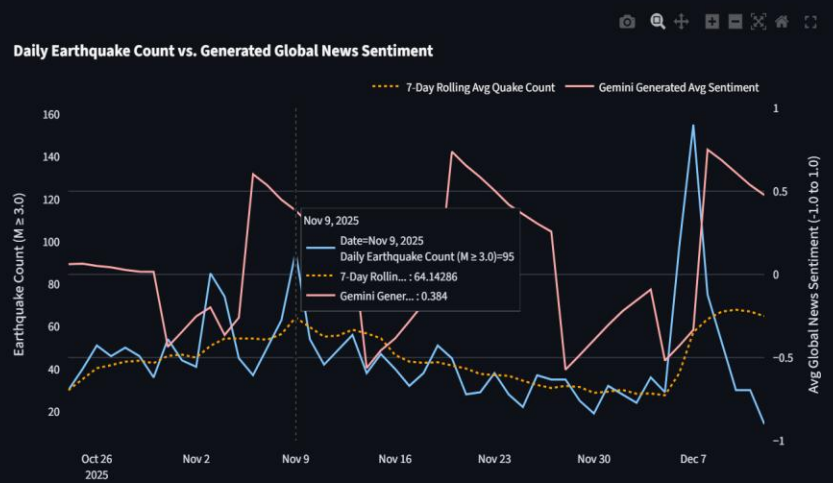
Min Earthquake Magnitude

3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Time Series: Quake Count, Rolling Average, and Sentiment



Configuration

Data Range (Days)

49

Min Earthquake Magnitude

3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Oct 26
2025
Nov 2
Nov 9
Nov 16
Nov 23
Nov 30
Dec 7

Seismic Activity Heatmap (Weekly Count)

Visualizing the distribution of daily earthquake count across the entire selected time period.

Configuration

Data Range (Days)

49

Min Earthquake Magnitude

3.00

Project Creator: Ankit Thakur

Data: USGS & Gemini API

Raw Data Preview

	Date	Earthquake_Count	Rolling_Avg_Count	Max_Magnitude	Avg_Sentiment
40	2025-12-03 00:00:00	24	28.2857	5	-0.155
41	2025-12-04 00:00:00	36	28.4286	5.8	-0.091
42	2025-12-05 00:00:00	29	27.5714	5.5	-0.518
43	2025-12-06 00:00:00	97	37.8571	7	-0.43
44	2025-12-07 00:00:00	155	57.2857	5.6	-0.334
45	2025-12-08 00:00:00	75	63.4286	7.6	0.75
46	2025-12-09 00:00:00	53	67	5.3	0.686
47	2025-12-10 00:00:00	30	67.8571	5.7	0.612
48	2025-12-11 00:00:00	30	67	5.1	0.537
49	2025-12-12 00:00:00	14	64.8571	6.7	0.477