Francisco Reales
LinkedIn: franciscoreales

GDELT Insight Hub Dashboard

How Jane Leverages Insight Hub to Protect Clients Daily
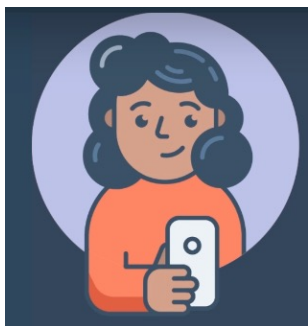
Meet Jane Doe,
Global Security
Analyst
SecureWatch Inc
(NY, USA)

- May 25th, 2020: Jane spots a protest spike in Minneapolis and advises a major client to **boost security, safeguarding lives** and assets

- Post-NY protest: Jane identifies involved actors and assesses future unrest risks using the dashboard.

Discover how Insight Hub can empower your team to make informed decisions
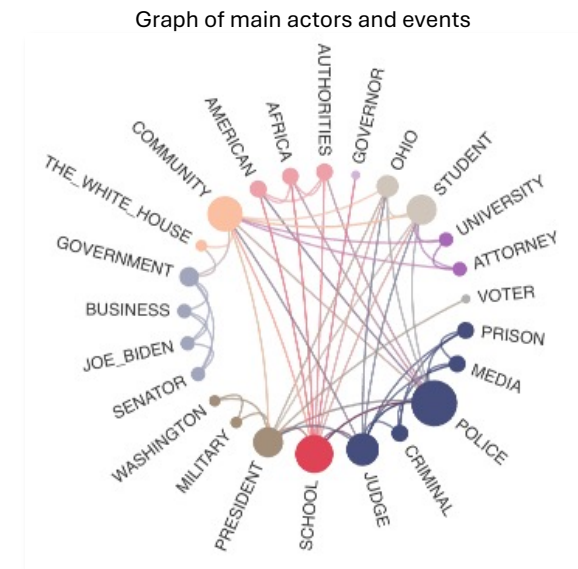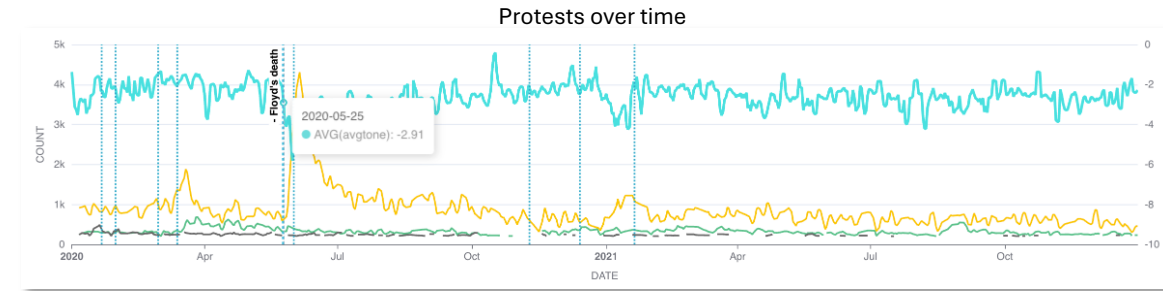
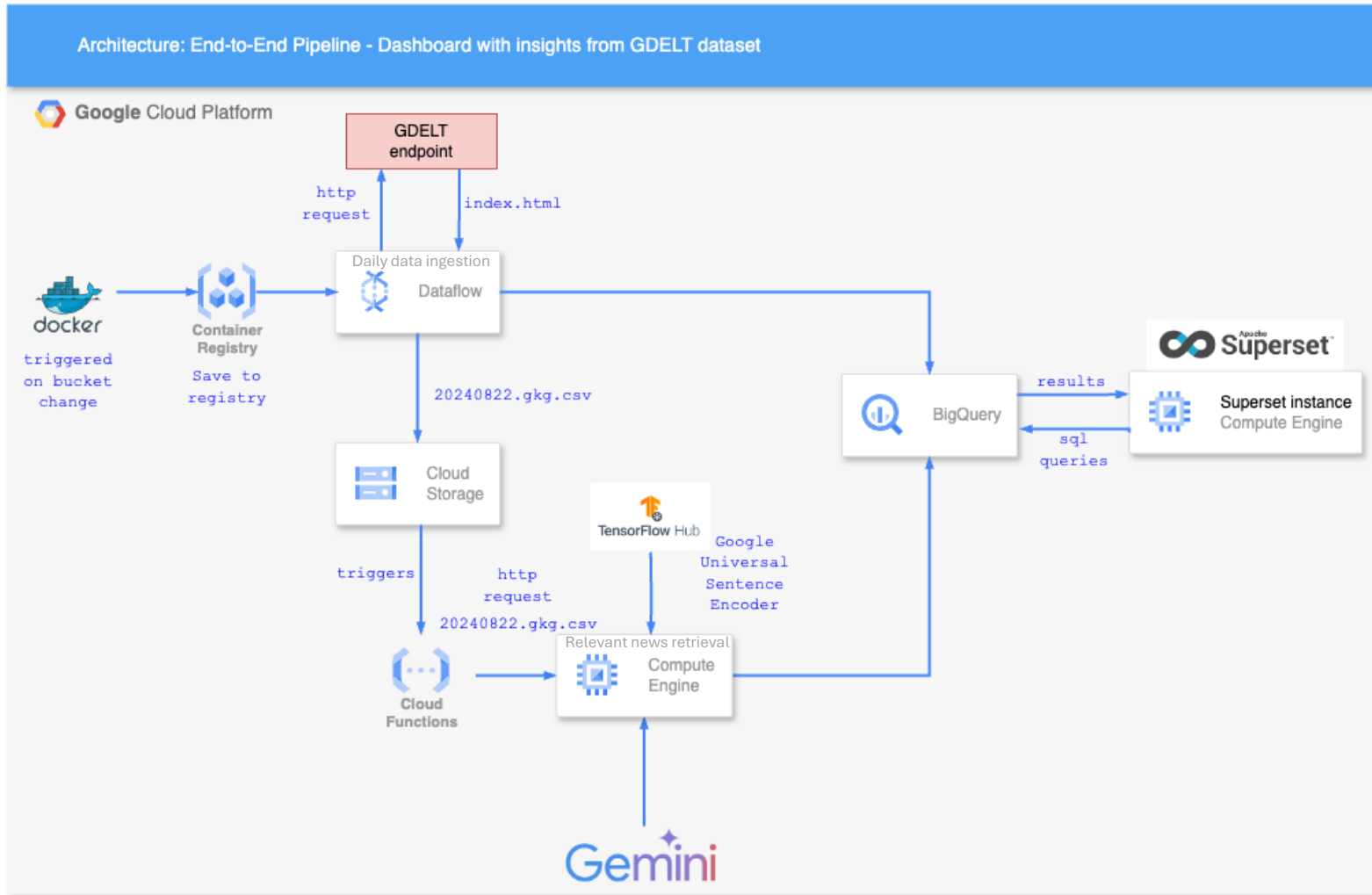Heatmap of Unrest in the US

Graph of main actors and events
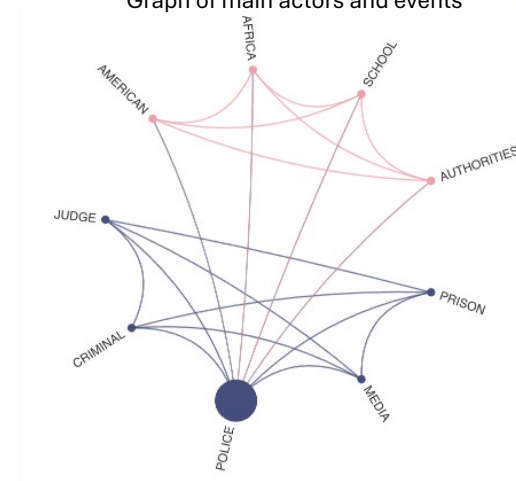
What makes Insight Hub indispensable

- **Stay informed:** Daily monitoring for critical global events

- **Visualize Risk:** Use heatmaps to asses and respond geographic risks

- **Spot Emerging Threats:** Leverage pattern recognition to anticipate risks before they escalate

- **Reveal Hidden Narratives:** Uncover global news themes with advanced topic modeling

Protests over time

Graph of main actors and events

Headlines of news in the world

The end-to-end pipeline and architecture

Architecture: End-to-End Pipeline - Dashboard with insights from GDELT dataset

- **Data Flow Pipeline:** Ingests full datasets and daily batches

- **Relevant news retrieval:** Gets relevant news through kmeans clustering on text embeddings and performs topic modeling

- **Bigquery:** Serves as the main storing and querying unit

- **Superset:** Enables data visualization and query creation

Vision

Insight Hub aims to evolve from a powerful analytics tool into an indispensable global risk management platform, driving smarter decisions through data, collaboration, and advanced AI empowering organizations to navigate an increasingly complex world with confidence.

Want to know more:

Link to Insight Hub Dashboard (It has all the notes on the explenations of the systems and models implemented):
http://34.176.13.48:8088/superset/dashboard/p/zMeRoy7QjdB/

Github of the project:
https://github.com/francisco64/factored-datathon-2024-quantumwhite