



Pulse

Trace the Pulse of the World

Real-Time News Insights & Smart Contextual Search

Trace AI IDE: Zero Limits
Hackathon

Table of contents

01

**Problem
Statement**

02

**Value
Proposition**

03

**Solution
Overview**

04

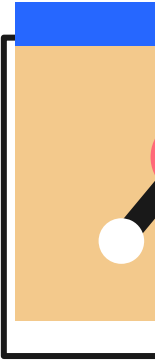
**How Trae
was used**

05

**Product
Demo**

06

**Market
Research**





01

Problem Statement

The Problem



No Single Source

News consumption today is fragmented



Missing Context

Readers lack context beyond single headlines



Outdated Content

No easy way to query recent events and get smart summaries.

Our Solution



Real-time insights

Pulse offers contextualized insights from real-time news



Smart Querying

Lets users interact with trending topics via smart query



Summarized Results

Summarizes related news for deeper understanding



02

Value Proposition

Business Value



Ask anything

not just keywords - and get meaningful, filtered answers



Trust what you see

get summaries that are grounded in sources you can trust.



See the bigger picture

how news evolved, where the signals are, and what's missing



Control your inputs

it uses RSS, customize the input knowledge based on your feeds



03

Solution Overview

Features



Semantic + LLM fusion

vector search narrows scope, LLMs summarize with relevance.



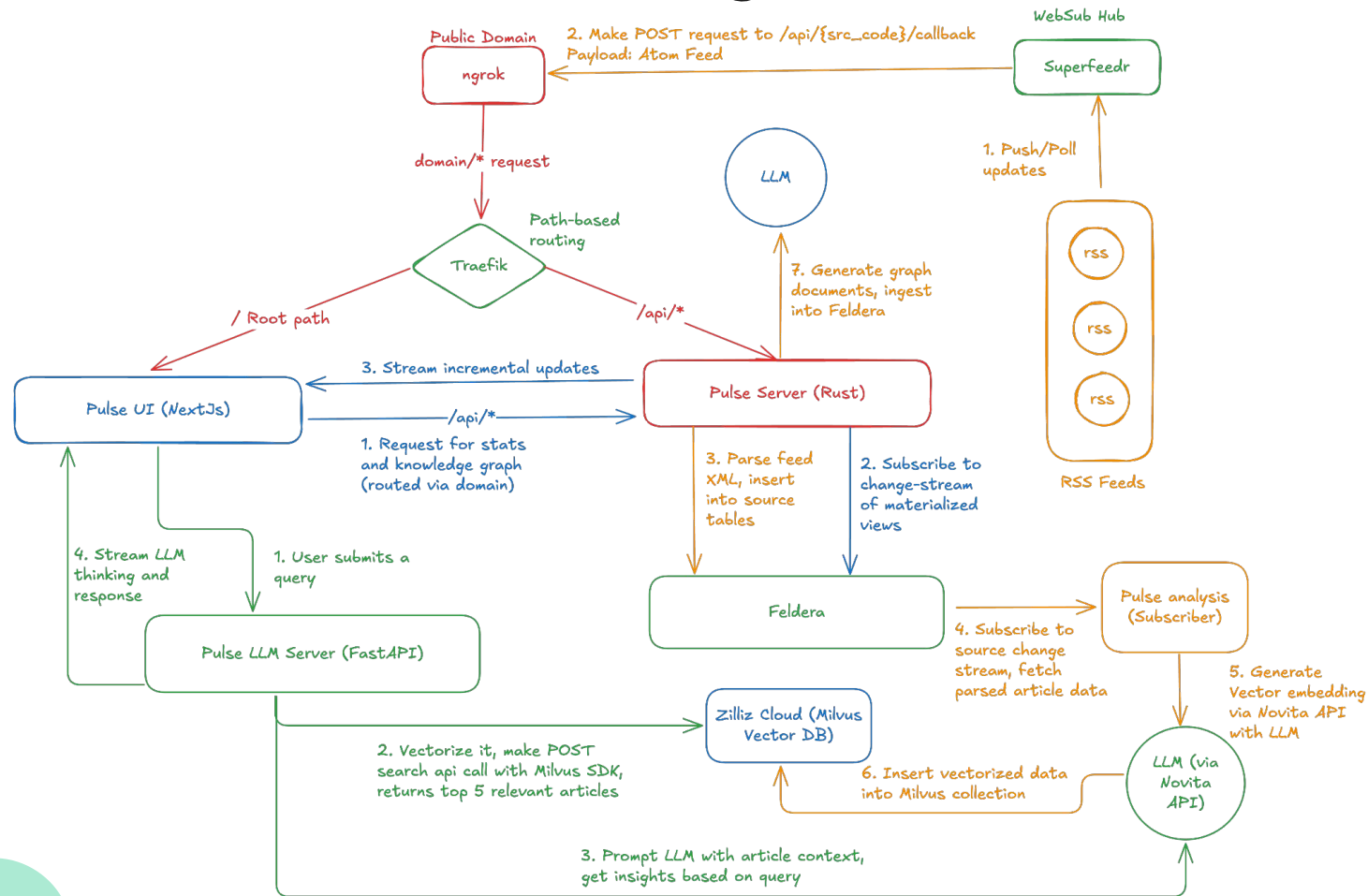
Built with speed + privacy in mind

how news evolved, where the signals are, and what's missing



Fast Retrieval and Generation

with Feldera + Zilliz Cloud +
Novita AI



Tech Stack



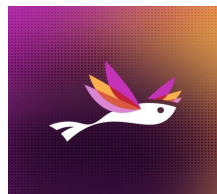
Next.js



Python



Rust



Feldera



RSS



Traefik



04

How Trae was Used



Some Examples

"Give me a template code to make insert API calls to Zilliz Cloud with Milvus Vector DB, so that I can add data points to the vector store."

"Generate a UI code snippet to create a toggle switch between 'Thinking' and 'Summary' buttons."

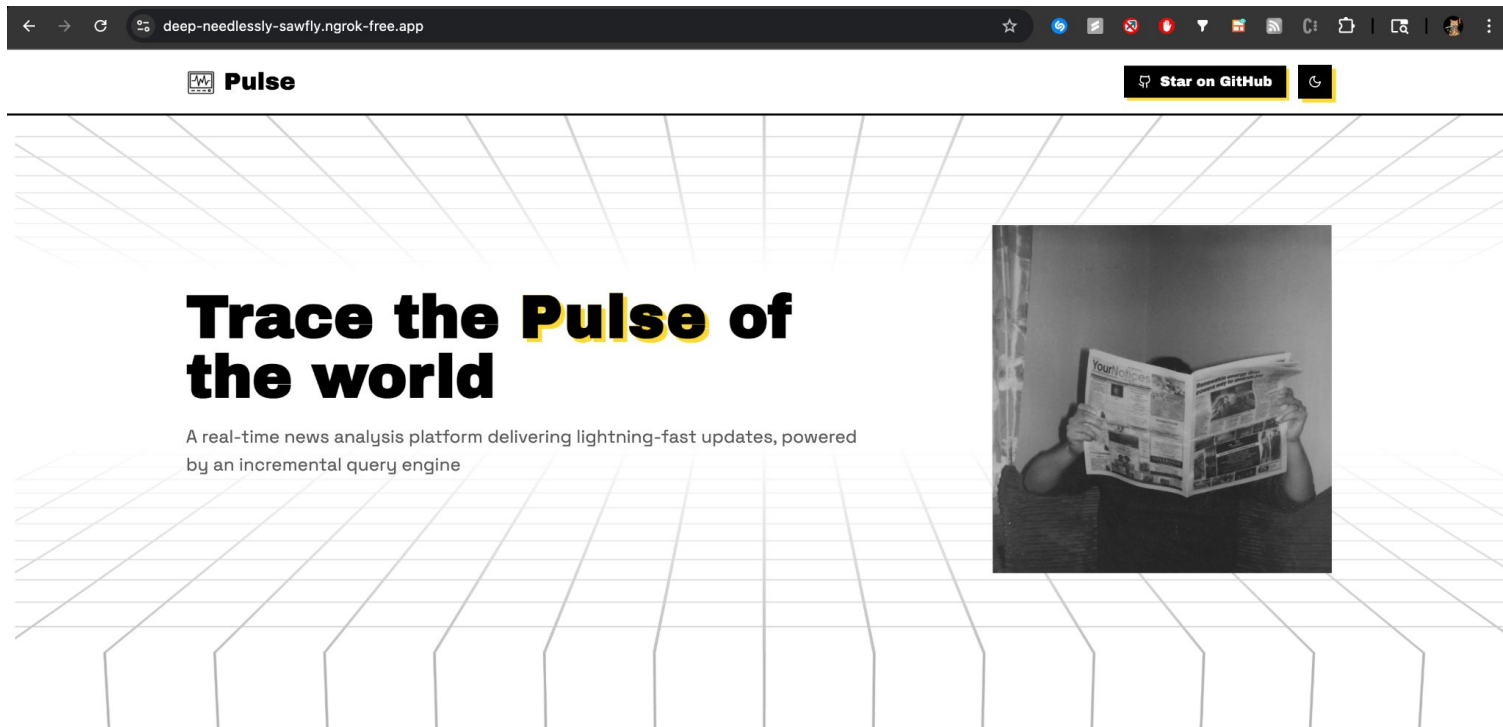
"Give me a template code to make search API calls to Zilliz Cloud with Milvus Vector DB, so that I can query the vector store."



05

Product Demo

Product Demo



Provide insights on latest issues in the US



Thinking

Summary

Okay, let me start by looking at the user's query. They want insights on the latest issues in the US based on the provided articles. First, I need to go through each article and extract the key points.

The first article mentions Trump's financial disclosures showing over \$600 million in income. There's also a mention of other officials earning from crypto, Bibles, speeches, etc. This relates to financial transparency and potential conflicts of interest, especially with crypto involvement.

Top Search Results

Trump reports over \$600 million in income in latest financial disclosure ▾

Searching for answers about US-backed aid agency in Gaza ▾

Trump administration considers adding 36 countries to travel ban list ▾

Fox News Hosts Gushed Over the Parade, With No Protests in Sight ▾

Provide insights on latest issues in the US



Thinking

Summary

Based on the provided articles, here are some insights into the latest issues in the US:

- Financial Scrutiny:** President Trump reported significant income (\$600 million+) in his latest financial disclosures. This raises ongoing questions about his financial dealings, including potential earnings from diverse sources like cryptocurrency, speeches, and even Bibles, alongside official duties, which can fuel debates about ethics and potential conflicts of interest.
- Foreign Policy and Aid:** The creation of the US-backed Global Health Forum (GHF) in Gaza aims to address food aid. While details are scarce, its establishment highlights the complexities and challenges of US foreign policy in the region and reflects specific US-Israeli strategic interests in humanitarian assistance amidst conflict.
- Immigration/Travel Restrictions:** The Trump administration is considering expanding a travel ban to include 36 additional countries. This move, backed by an internal memo setting strict deadlines, underscores the administration's continued focus on immigration control and reflects ongoing geopolitical tensions and debates over international relations.
- Domestic Security Concerns:** A shooting incident targeting Minnesota politicians has occurred, prompting law enforcement action. This event adds another layer to the concerning trend of violence against elected officials, highlighting persistent domestic security issues and the vulnerability of public servants.



06

Market Research

Market Landscape

	Pulse (Ours)	Bloomberg NSTM	Dataminr	NewsWhip	News360
Semantic Search	Yes	Yes	No	No	Basic Clustering
LLM-Based Summarization	Yes	Yes	No	No	No
Traceable Source Linking	Full transparency	No	Opaque Signals	No	No
Custom RSS Ingestion	Yes	No	No	No	Yes
Trend/Signal Detection	Planned	Limited to finance	Yes	Yes	Limited

Revenue Streams



Developer API Access

Gives access to our semantic search and summarization engine



Enterprise Tier

For financial and policy research teams, enabling them to run locally with their own feeds - which is a huge plus for privacy-conscious teams



Premium Users

Could subscribe for deeper features like timeline views, trend alerts, or save-and-track options.



Insights-as-a-service

Helping companies monitor narratives, competitors, or regulatory movements - especially useful in finance, policy, and PR.



Thanks!

If you have any questions you can reach out to us through LinkedIn.

Rohit Vemparala -

<https://www.linkedin.com/in/rohit-vemparala/>

Abhishek Varshney -

<https://www.linkedin.com/in/avarshn/>

Love to connect to talk about it.
If you like our work, star the GitHub Repo.
<https://github.com/RVKarmani/pulse>

