Liquid Metal AI

The next frontier: Agentic AI

Build on Cloudflare and LiquidMetal

What is Agentic AI

Agentic AI enables systems to reason, make decisions, and take goal-driven actions autonomously. It goes beyond passive tools by actively processing data, planning, and executing tasks to achieve objectives in dynamic environments.

3 COMPONENTS TO AGENTIC AI

INDEXER

Indexers transform any data type for usage in AI applications. Extracting content and structure

RETRIEVER

Retrievers find any relevant content based on input queries from humans or Agents.

REASONING

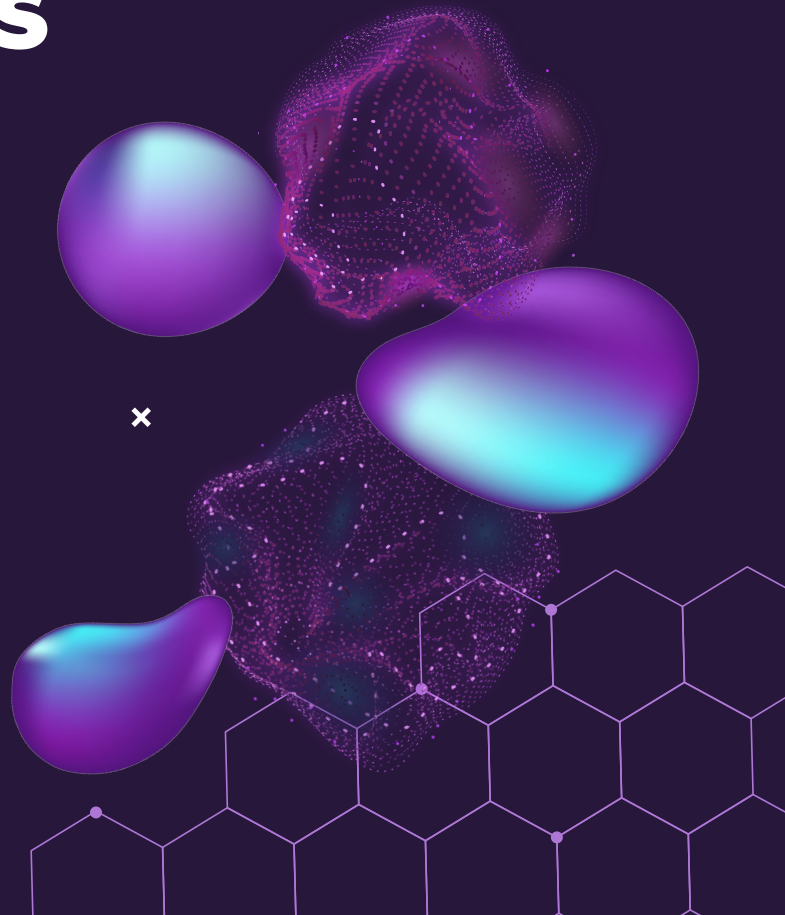The reasoning engine powers the agents processing, planning, and executing tasks.

01

INDEXING
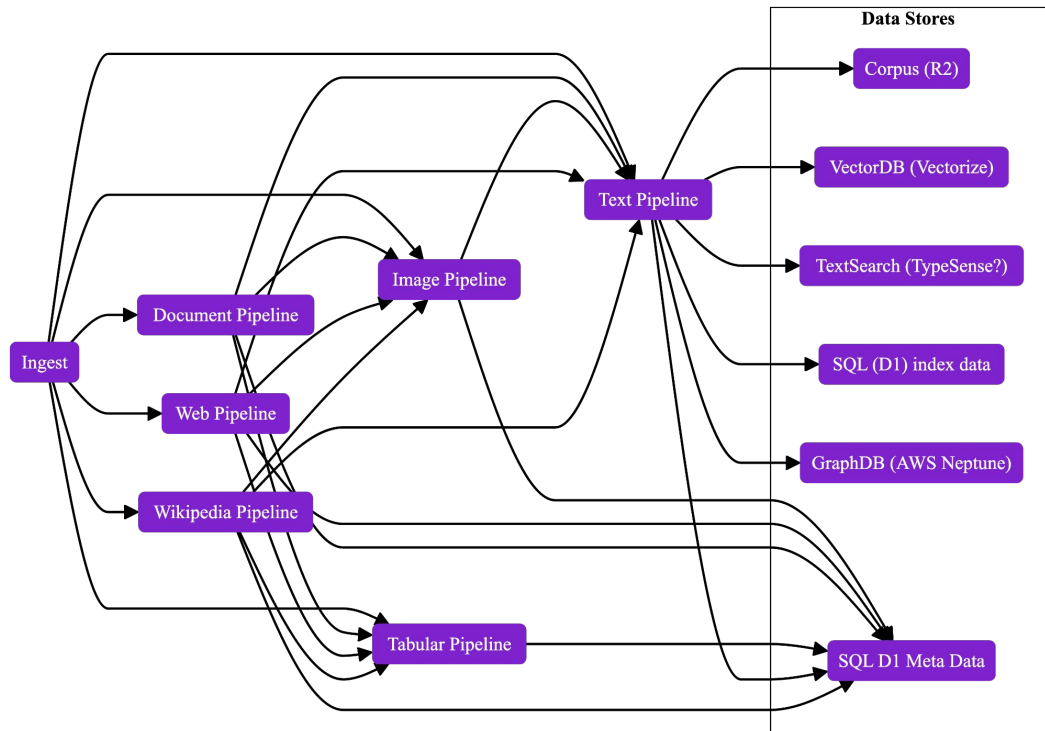
Decompose input data into AI readable formats

INDEXERS

◆ Decomposes documents into core elements e.g PDF → text chunks, images, tables, metadata

◆ Stores data in Agent friendly format i.e vectors, graphs, SQL tables and more
  ○ D1, Vectorize, R2, Durable Objects

◆ Multi-modal to process the full scope of data

INDEXER ARCHITECTURE
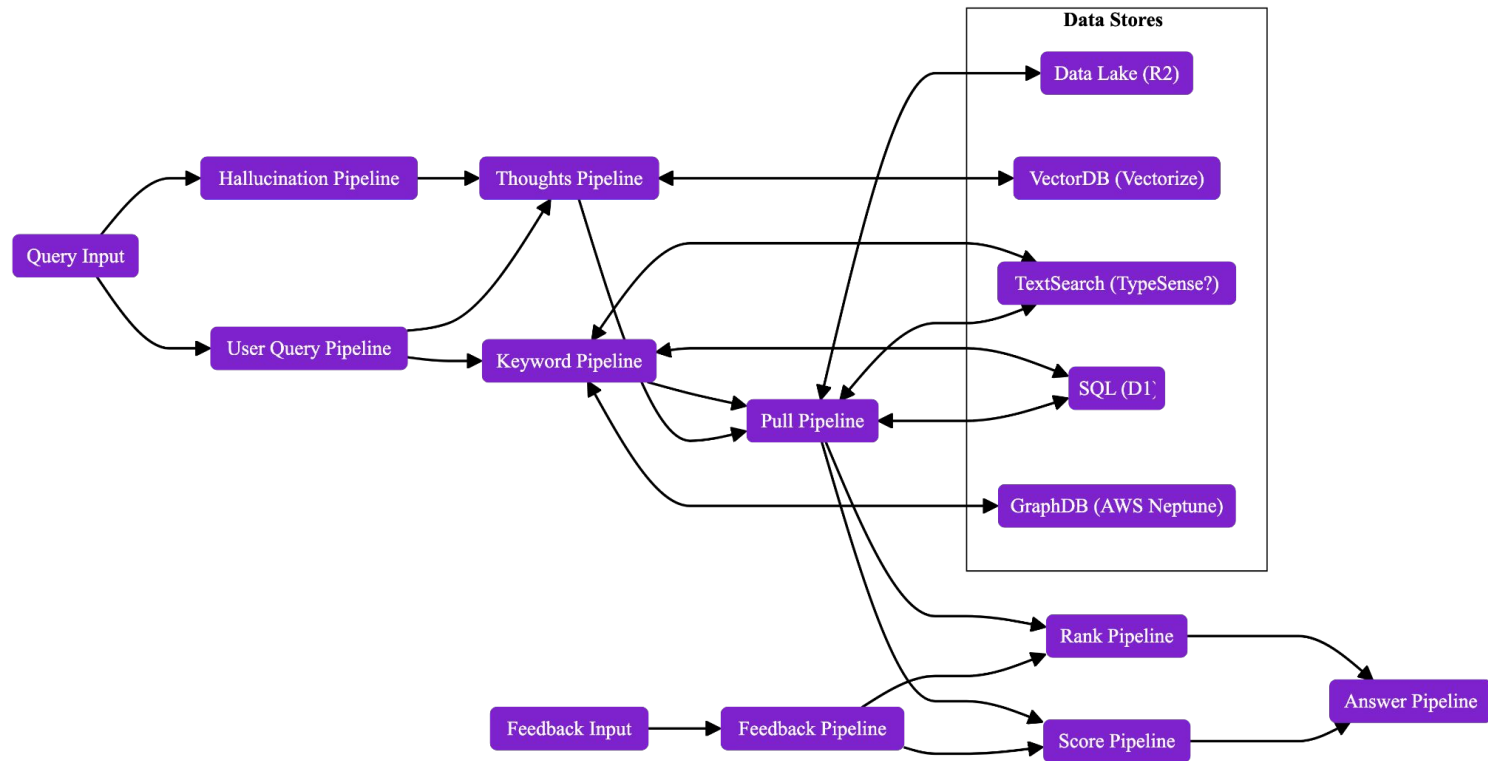
We built this on Cloudflare so you don't have to

02
RETRIEVERS

Find the most relevant data for any input query

RETRIEVER ARCHITECTURE
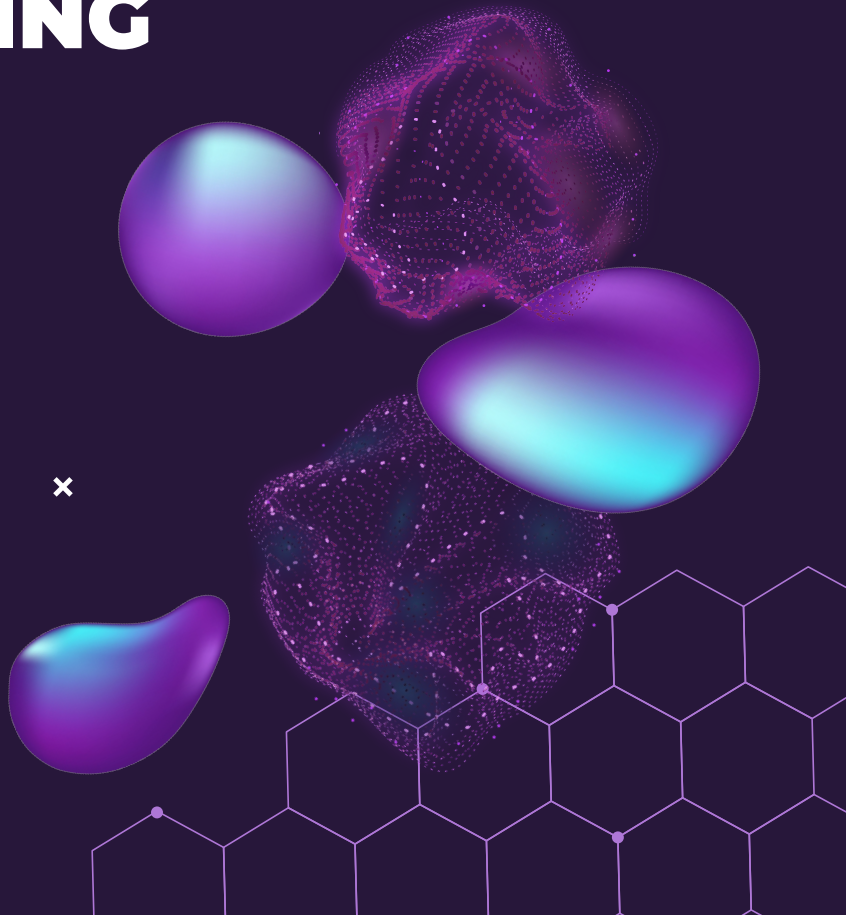
We built this so on Cloudflare you don't have to

RETRIEVING

- ◆ Extends user input to enable better search
- ◆ Semantic chunking for better matches
- ◆ Searches all data stores (R2, D1, Vectorize, GraphDB, Typesense)
- ◆ SOTA ranking algorithms to find the best matches
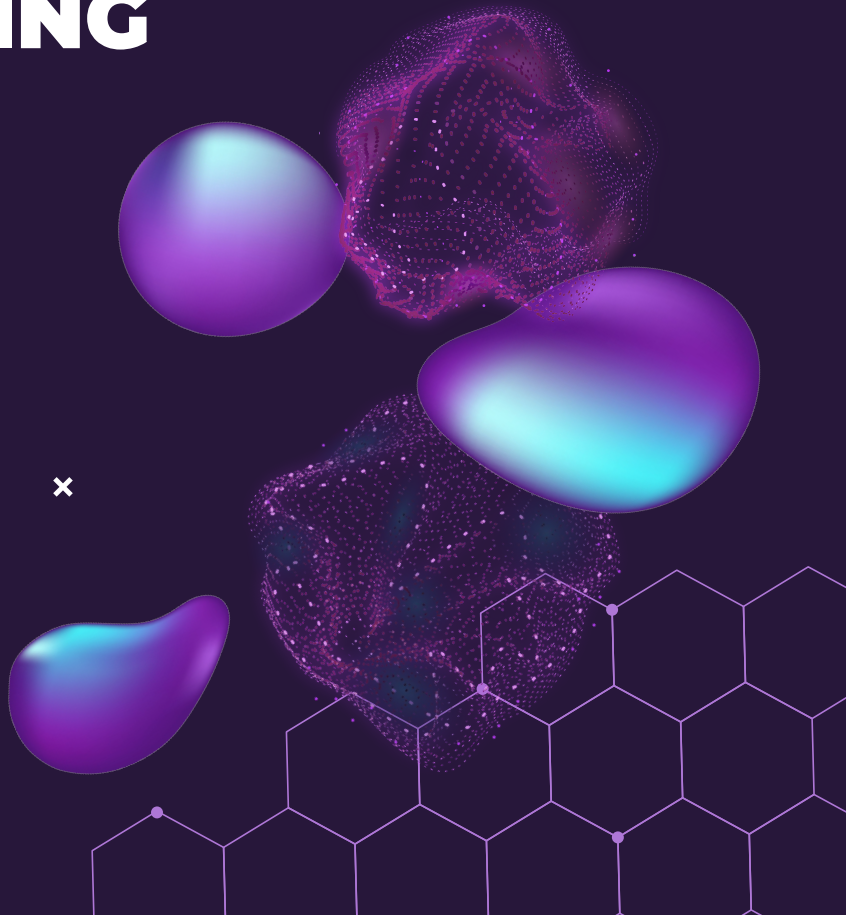
03

REASONING

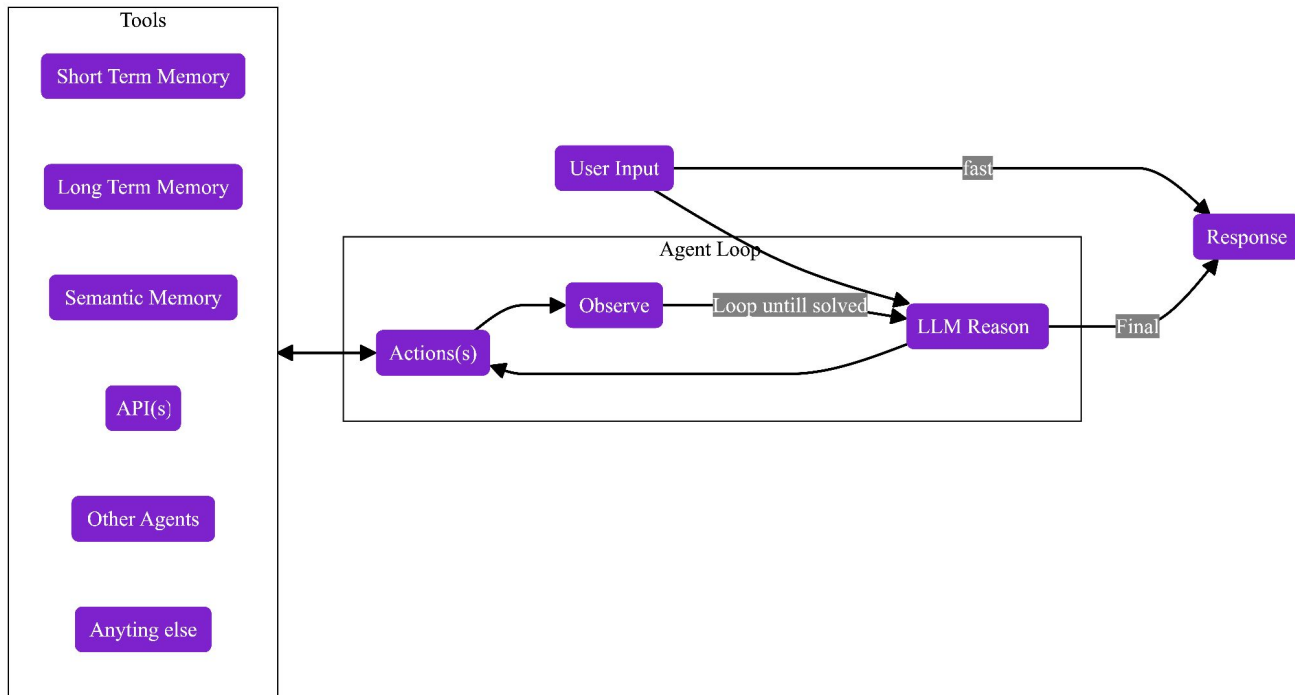Reasoning engine to analyze, plan, and execute

REASONING

- Short and long term memory (Durable Objects)
- Various Models (AI gateway) for best in class reasoning
- Tools including API's, our Retriever and custom designed solutions

AGENT ARCHITECTURE

We built this on Cloudflare so you don't have to

(CLOUDFLARE) RESOURCES

- ◆ Everything from the Developer Platform
  - ○ D1, R2, Vectorize, Workers, AI gateway,
    Durable Objects, Multiple AI Models
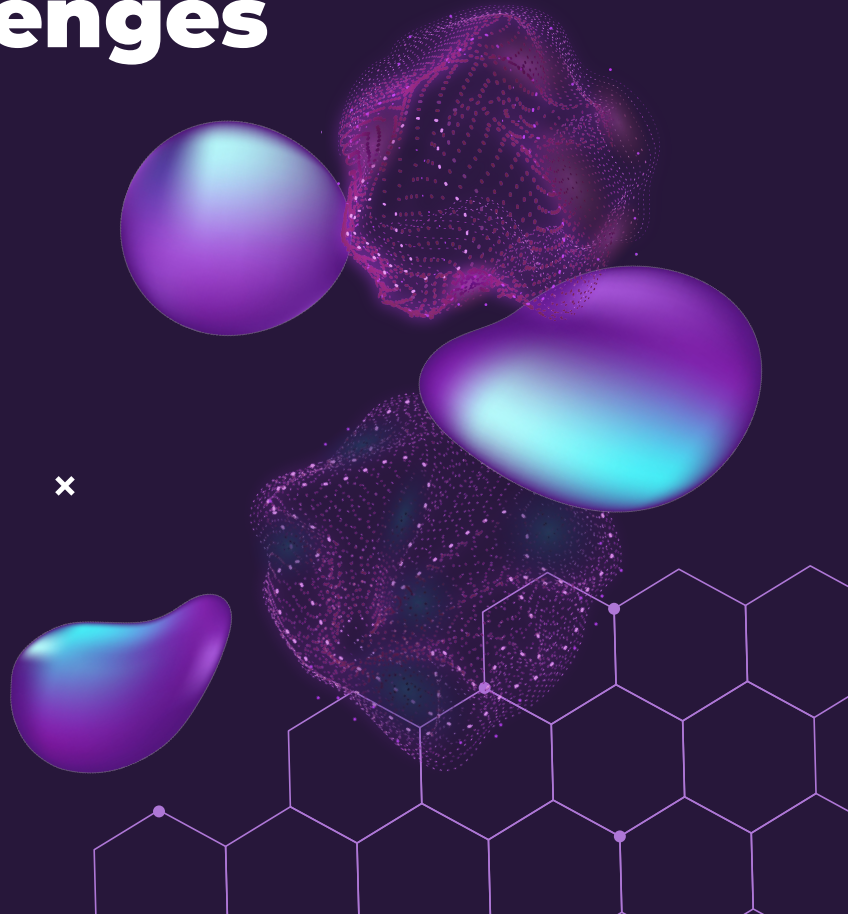- ◆ Graph DB, Typesense, Sambanova,
  and others

Day 2 Challenges

- Managing over 250+ resources
- Data Catalog - Lineage, Access Control, Data Discovery and more
- Understanding Agentic AI output

That is why we are building Raindrop Catalog, Build and Query (on Cloudflare)

SIGN UP FOR THE BETA

If you are interested in Building Agentic AI on Cloudflare sign up to get early access to our suite of tools for Agentic AI