

# AI Sutra: The Architecture of Wisdom

Transforming Information Overload into Curated Knowledge Threads

Project Documentation v1.0 | February 2026

# Weaving Order from Chaos

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## Definition: Sutra (Sanskrit: सूत्र)

Translation: "Thread" or "String of Knowledge".

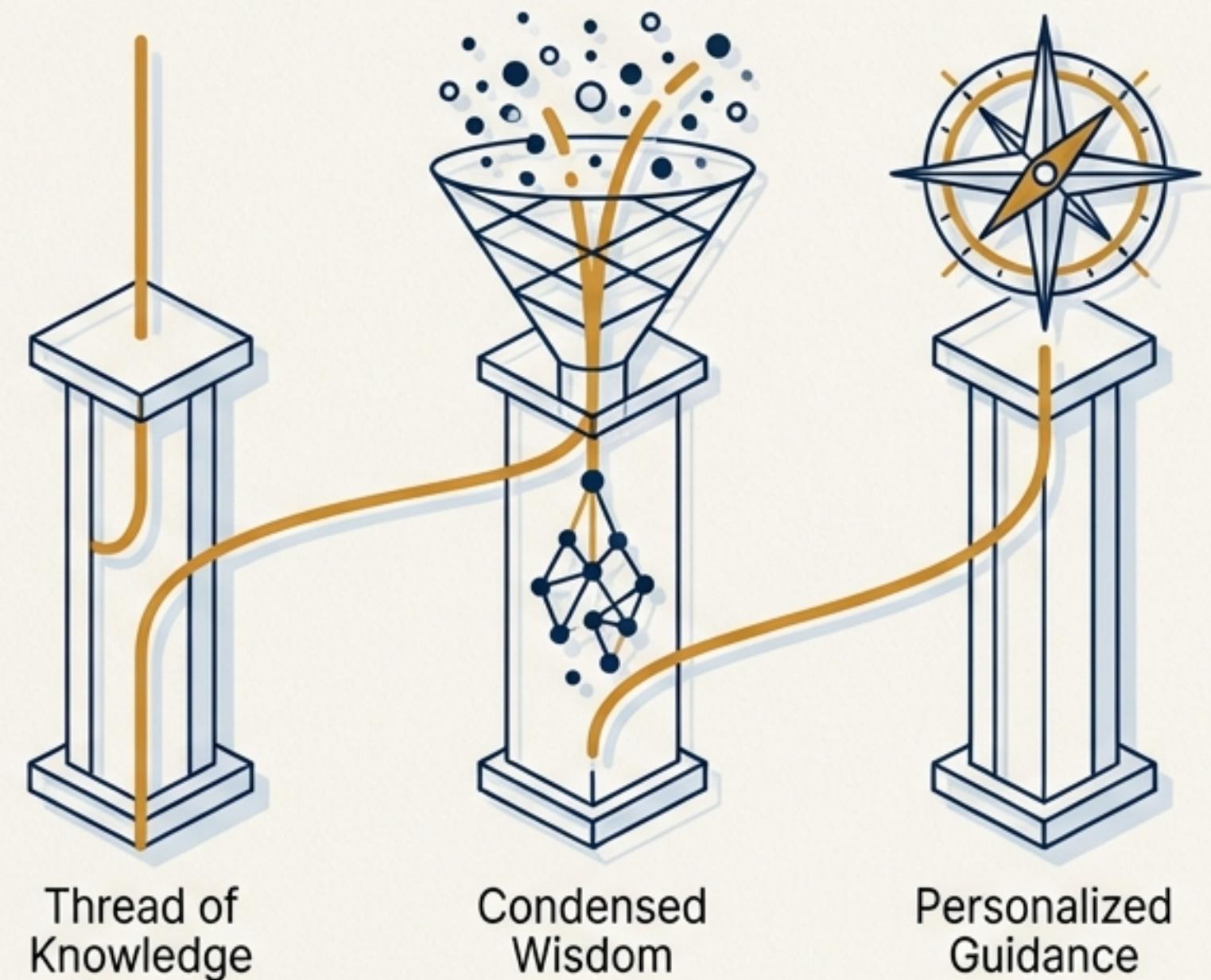
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## The Philosophy:

Ancient texts used the sutra format to distill complex wisdom into concise, memorable verses. AI Sutra applies this ancient philosophy of condensation to modern data streams.

## The Solution:

A platform that acts as an intelligent filter, weaving together personalized information and structured learning paths tailored to the user.



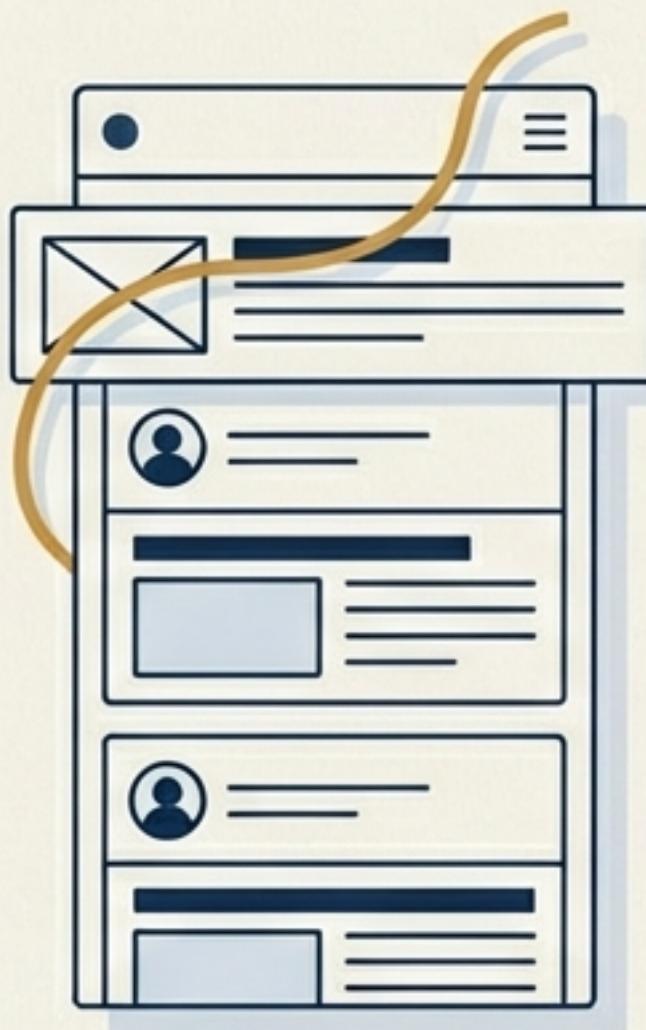
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**Core Mission:** To replace internet noise with distilled signal.

# A Dual-Modal Approach to Knowledge

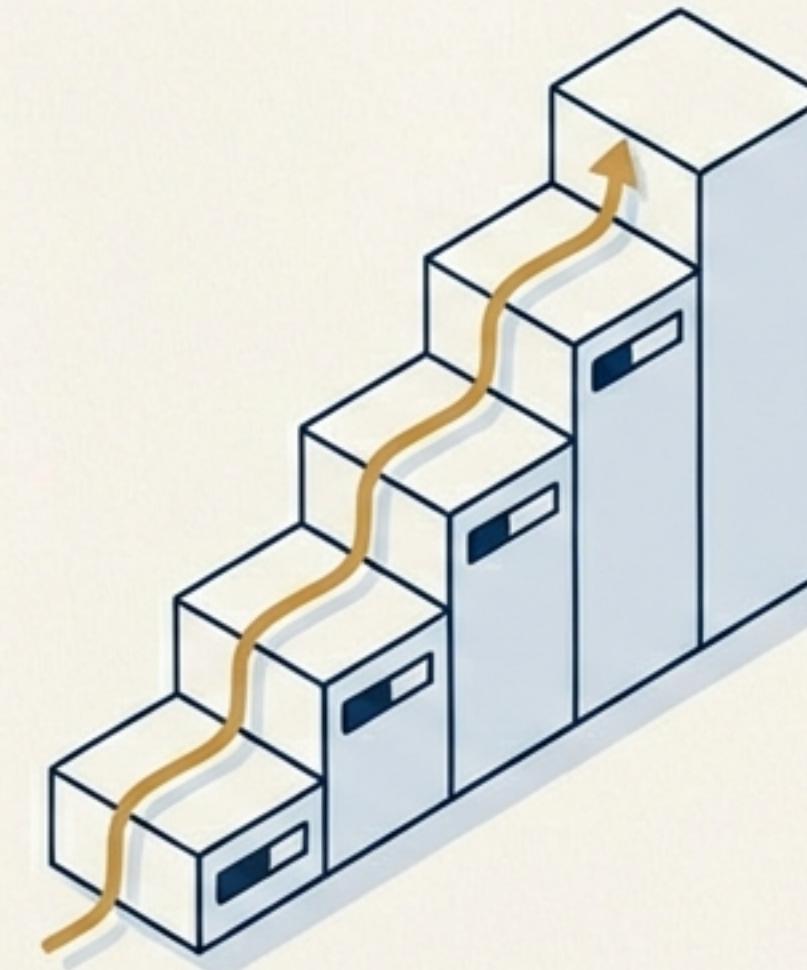
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## Mode A: The Feed Consumption & Updates



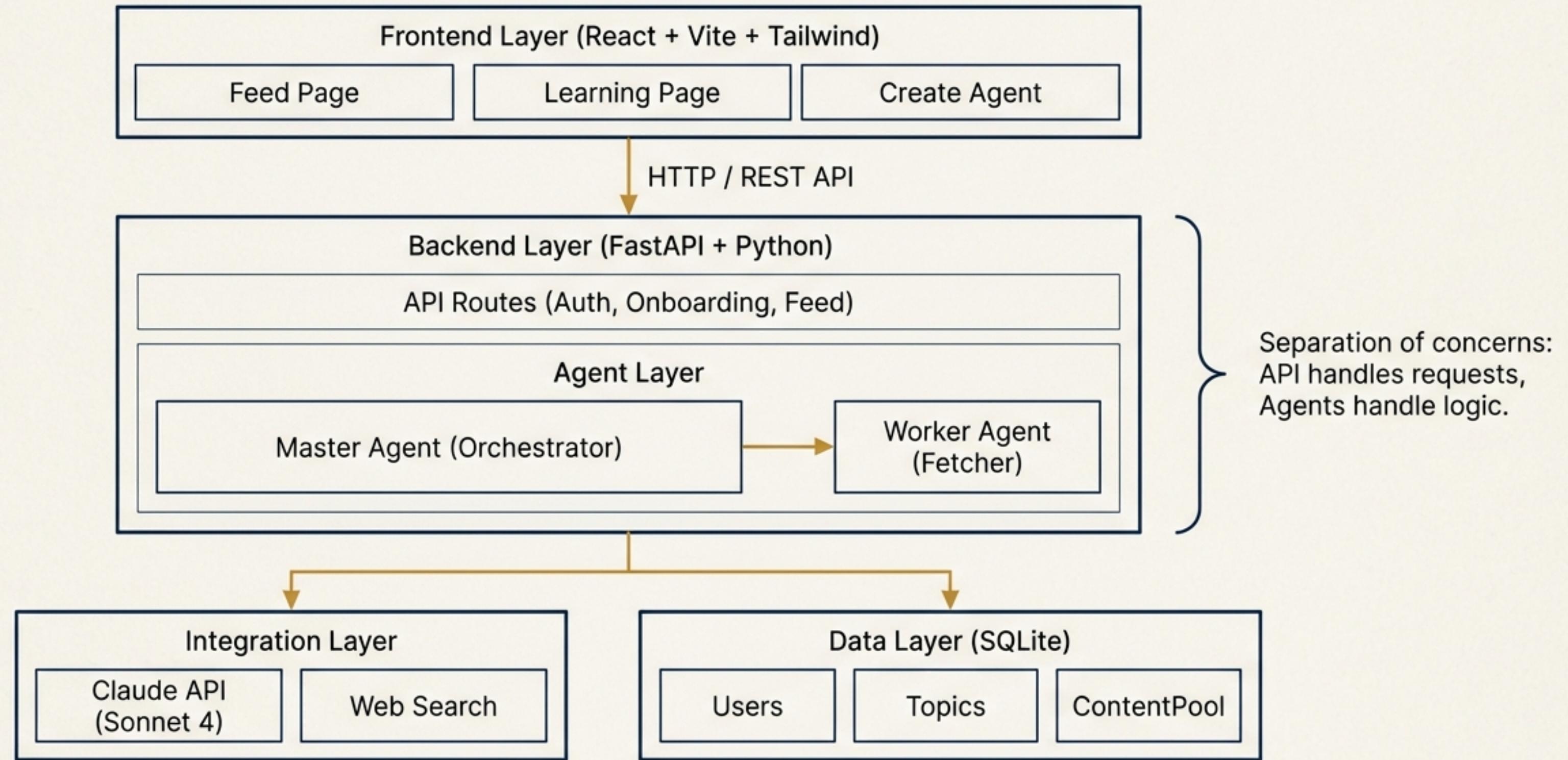
- **Goal:** Ease Information Consumption
- **Function:** Filters internet noise for real-time updates
- **Mechanism:** Aggregates articles or synthesizes market insights

## Mode B: The Learning Engine Curriculum & Growth



- **Goal:** Personalized Training Modules
- **Function:** Generates custom curricula (e.g., "Learn Python in 7 Days")
- **Mechanism:** Context-aware lessons that build upon previous days

# High-Level System Architecture



# The Intelligent Agent Layer

## The Master Agent (Orchestrator)

`backend/app/agents/master_agent.py`

Parses natural language intent. Manages user onboarding. Creates Topic records.

Delegates Task

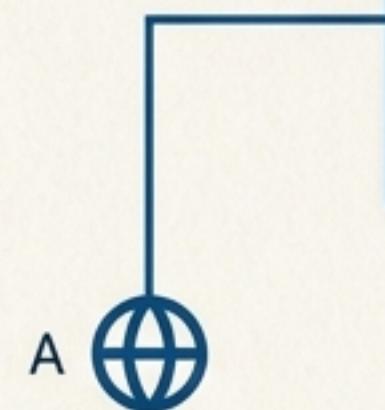
## Automation Logic:

The Master defines the "What", the Worker determines the "How".

## The Worker Agent (Fetcher)

`backend/app/agents/worker_agent.py`

Executes content generation. Routes requests based on topic type.



A  
Internet Mode  
(News/Politics)



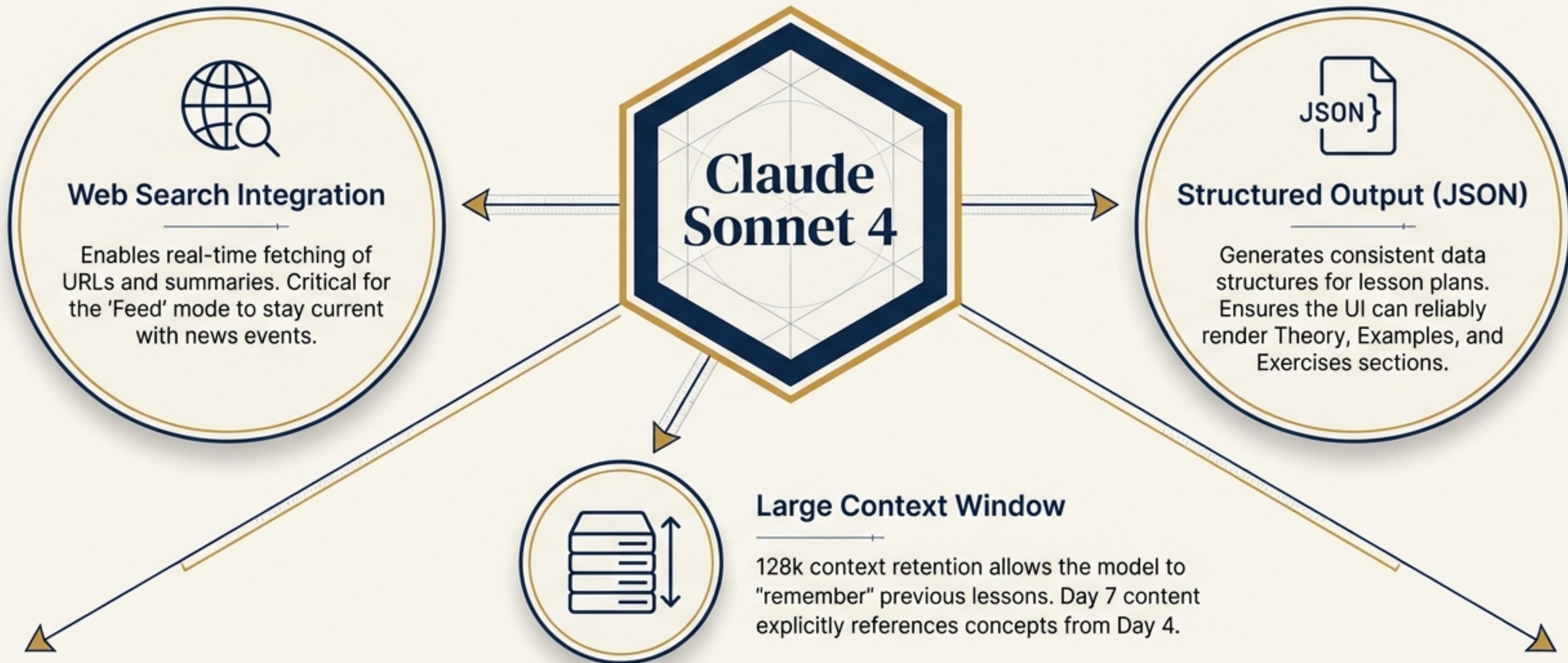
B  
AI Synthesis Mode  
(Analysis)



C  
Learning Mode  
(Context-Aware Curriculum)

# Powered by Claude Sonnet 4

Leveraging advanced AI for context-aware delivery.



# The Feed Experience

**Mode A (Internet):** Fetches 15 specific URLs + Summaries.

My Topics  
Cricket News  
Market Trends

## Feed Dashboard

Fetch Now

Internet Source  
**Global Markets Rally**  
bloomberg.com

US stocks surge as inflation fears ease, with tech leading the gains. Major indices hit new highs as investors anticipate Fed cuts.

[Read More](#)

AI Synthesis  
**Weekly Tech Analysis**

AI Generated

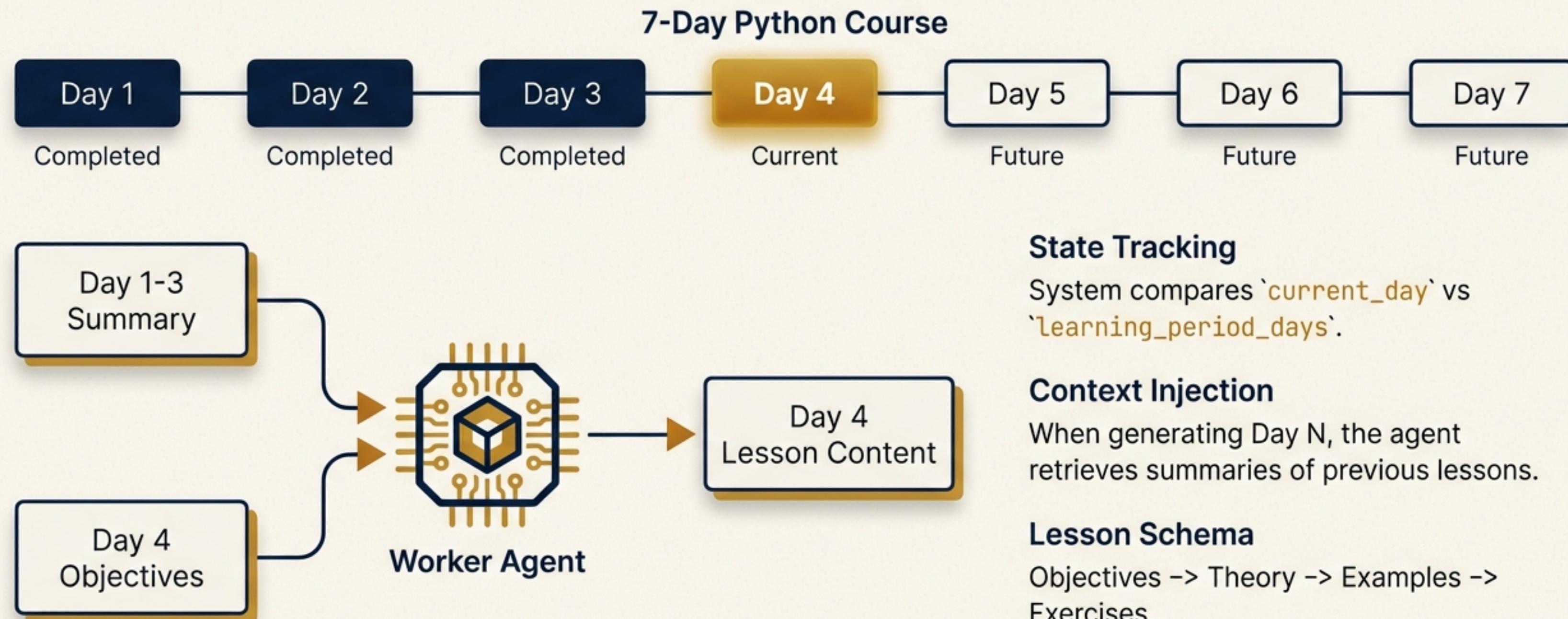
Artificial Intelligence integration in enterprise software accelerated this week, focusing on automation and predictive analytics. Key developments include new language models from leading providers and ethical frameworks for deployment. The trend suggests a shift towards autonomous decision-making systems in finance and healthcare sectors.

**Mode B (AI):** Generates unified, comprehensive insights.

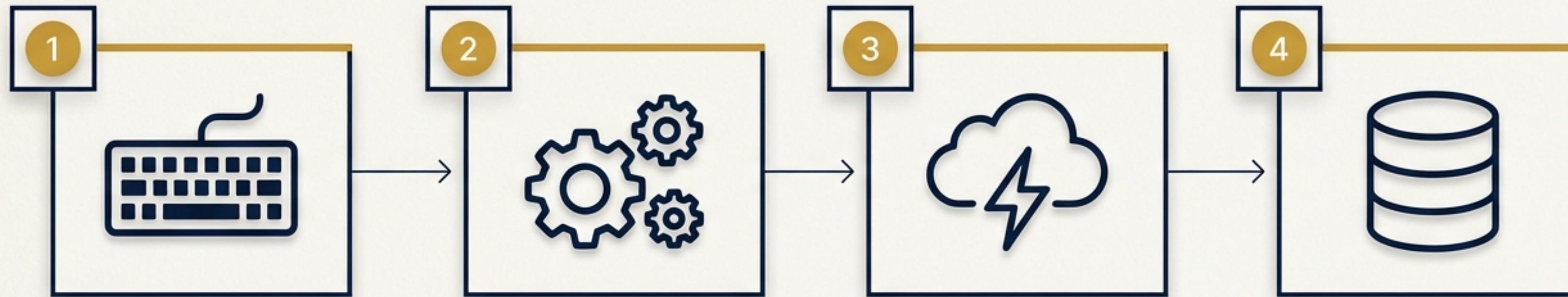
**Retention:** Content stored for 7 days.

# The Progressive Learning Engine

## Context-Aware Curriculum Generation



# User Flow: From Intent to Content



## Input

User requests: "I want to learn Python in 7 days".

`POST /api/onboarding`

## Orchestration

Master Agent creates Topic record.

`topic_type='learning', current_day=1`

## Execution

Worker Agent calls Claude API for Day 1.

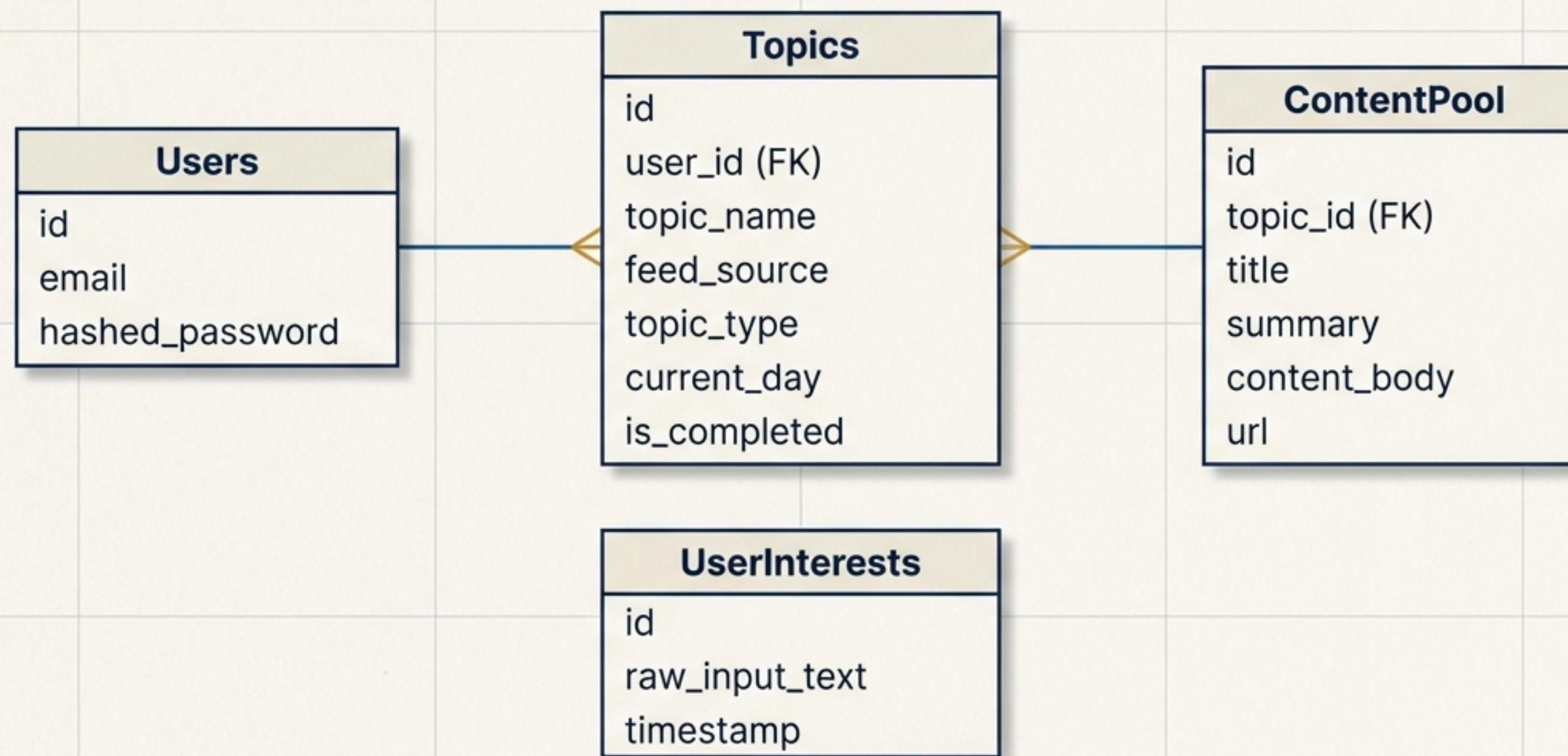
Generates structured lesson plan

## Storage

Content saved to ContentPool.

Topic updates to `current_day=2`

# Data Schema & Persistence



Database: SQLite with SQLAlchemy ORM

# Technology Stack

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## Frontend

- React 18
- Vite
- Tailwind CSS
- Axios
- React Router DOM

## Backend

- Python 3.10+
- FastAPI
- APScheduler (Scheduling)
- Asyncio

## Data Layer

- SQLite
- SQLAlchemy

## AI Services

- Anthropic Claude API
- Model: claude-sonnet-4-20250514

# Roadmap & Future Enhancements

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## Near Term (Core Features)

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- Time-grouped collapsible sections for Feed.
- Quiz and assessment integration for Learning modules.
- PDF download generation for completed curricula.

## Long Term (UX & Scale)

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- Mobile Application (iOS/Android).
- Analytics Dashboards (Reading time, progress metrics).
- Social Sharing of completed 'Sutras' (knowledge threads).

# The Paradigm Shift

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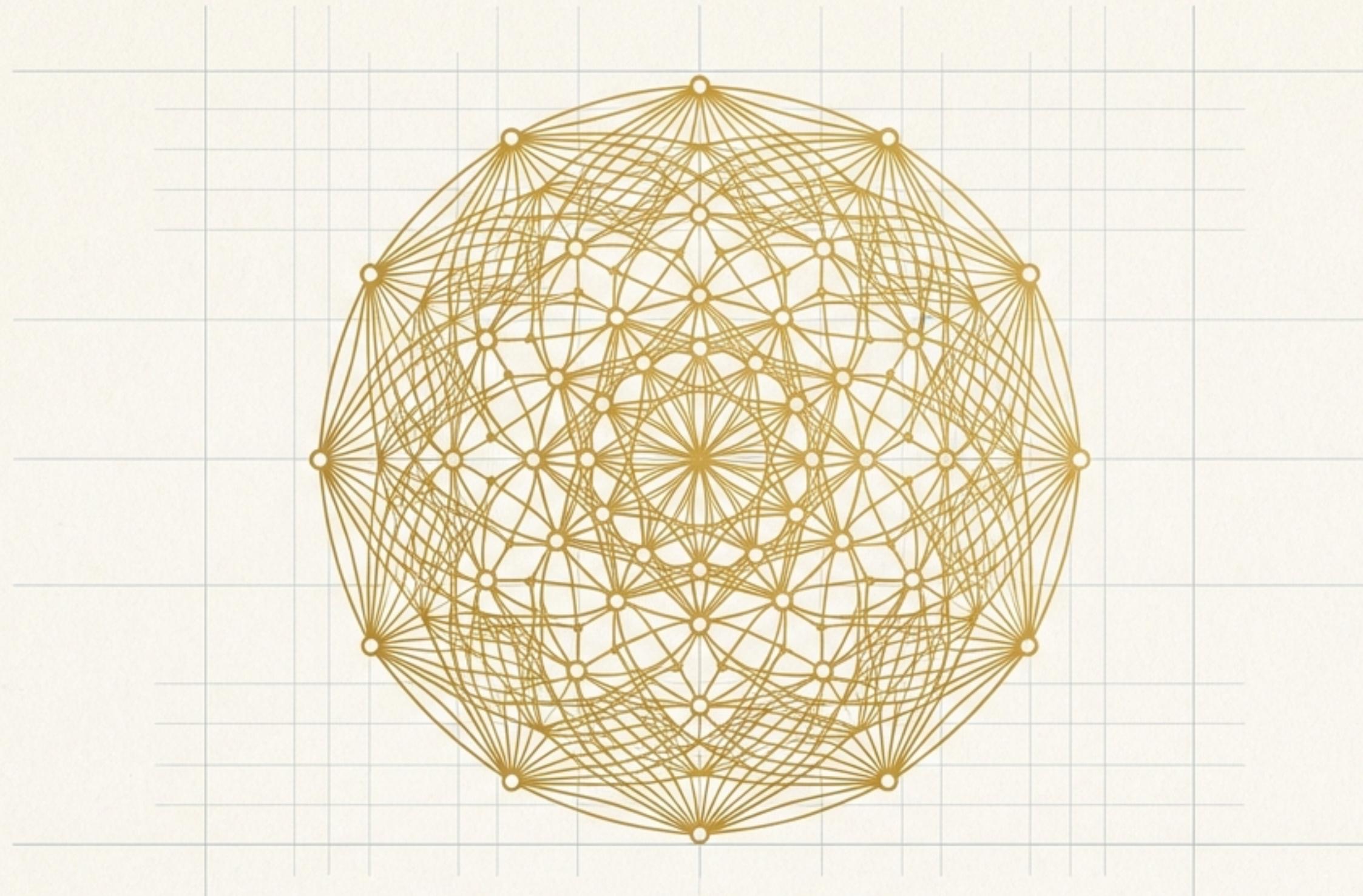
Passive  
Search



Active,  
Structured  
Knowing

AI Sutra moves beyond simple aggregation. It combines intelligent curation with structured pedagogy to transform overwhelming streams into actionable knowledge.

"Building knowledge systematically, thread by thread."



Project Repository: AI Sutra

Version: 1.0

Last Updated: February 15, 2026

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