FridayAI - Current System Status (As of Today)

What We've Completed

We've built and tested a modular neural-symbolic AI assistant, with the following active components:

Core Modules

- KnowledgeUnit: Basic memory structure: content, tags, importance, metadata

- MemoryCore.py: Secure, encrypted memory storage with version control and fuzzy recall

- GraphBrainCore.py: Concept network builder (links between ideas like 'Earth <-> Solar System')

- GraphReasoner.py: Logic engine that finds inference paths across the knowledge graph

- EmotionCore.py: Detects emotion in input and stores it in memory metadata

- AutoLearningCore.py: Learns new input automatically and stores as structured memory

- DialogueCore.py: Lets Friday respond based on memory, graph reasoning, and fallback

Intelligence + Search

- WebSearchBrainV2.py: Real-time web search using SerpAPI (Google-powered)

- SelfQueryingCore.py: Follow-up question generator using OpenAI API (fallback intelligence)

- .env: Stores both SERPAPI_KEY and OPENAI_API_KEY for secure access

Intent Routing Brain

- IntentRouter.py: Decision engine that chooses how to answer: memory -> graph -> web -> GPT

Routing Priority:

1. MemoryCore (check known facts)

2. GraphReasoner (infer links between concepts)

3. WebSearchBrain (use SerpAPI)

4. SelfQueryingCore (ask clarifying follow-up if nothing is found)

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Confirmed Working

- SerpAPI is installed, connected, and responding.

- OpenAI fallback kicks in when Friday gets 'No results found.'

- Real-time terminal test of IntentRouter.py shows full routing loop works end-to-end.

What's Next

1. Integrate everything into DialogueLoop.py for real chat interaction

2. Add IntentClassifier to detect user intent categories (ask, search, learn, recall, etc.)

3. Improve memory quality with NLP summarization or entity recognition

4. Build a lightweight front-end interface or API