Big Brain Bigger Appetite

Sentient, Datathon 2025

OpenDeepSearch
– but (try to) make it better

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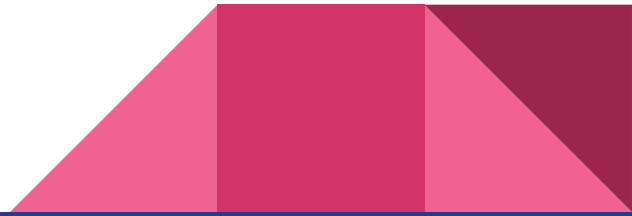
Exploration Steps

General attack plan

Our approach consisted of

1. extensive brainstorming and research of possible methods
2. implementation/hacking
3. evaluating on a small subset of the FRAMES dataset
4. reiterate at step (1)

Comparison to our own baseline (FRAMES subset):
llama-v3p1-70b-instruct to grade our results -> 52.7% accuracy



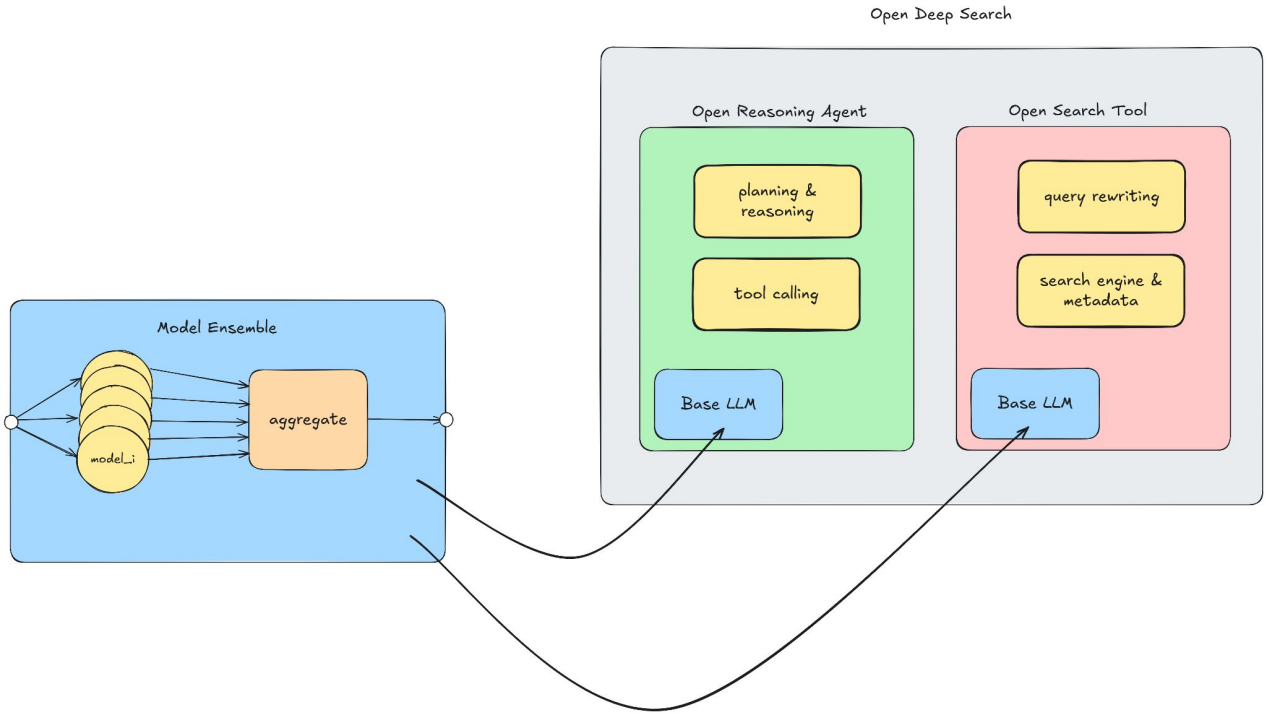
Accuracy metric

- acc = no. of grades “A” / total no. of samples
- for own validation, we used fixed smaller subset of FRAMES
  - size 243
  - size 88
- final FRAMES dataset size: 824 queries

What did we explore?

1. Ensemble Method and Aggregation
2. Query Rephrasing/Augmentation
3. Planning Strategies

Agent Architecture



Submission Results

Final Take-Aways

THANK YOU VERY MUCH!

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