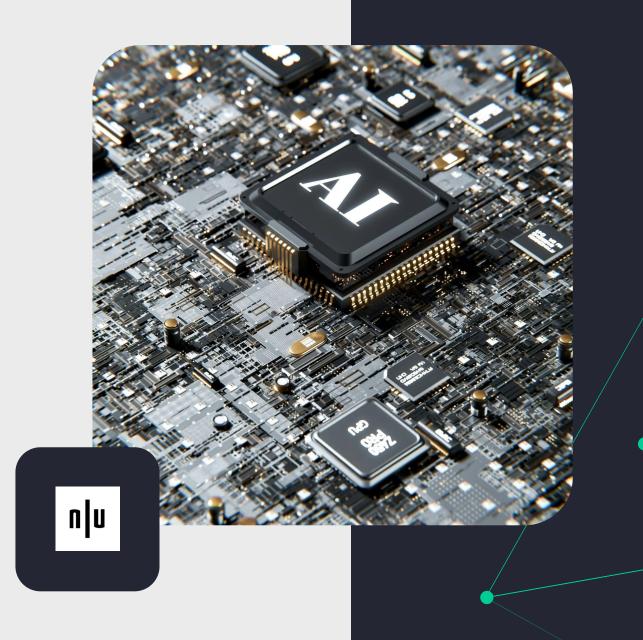


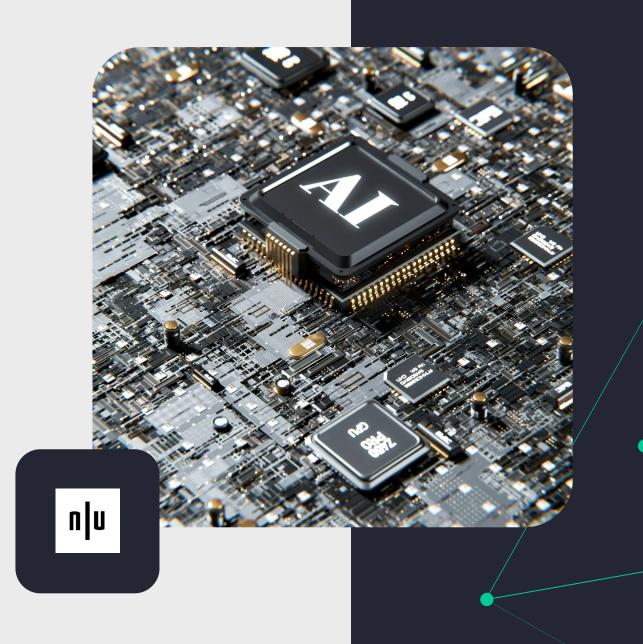
Agenda TL;DR

- Help you understand and streamline your own research
- When, Why and How?
- Problems & possibleSolutions



Disclaimer What not to expect?

- Code Discussion
- "Perfect", no flaw PoC Demo
- this session is enough!

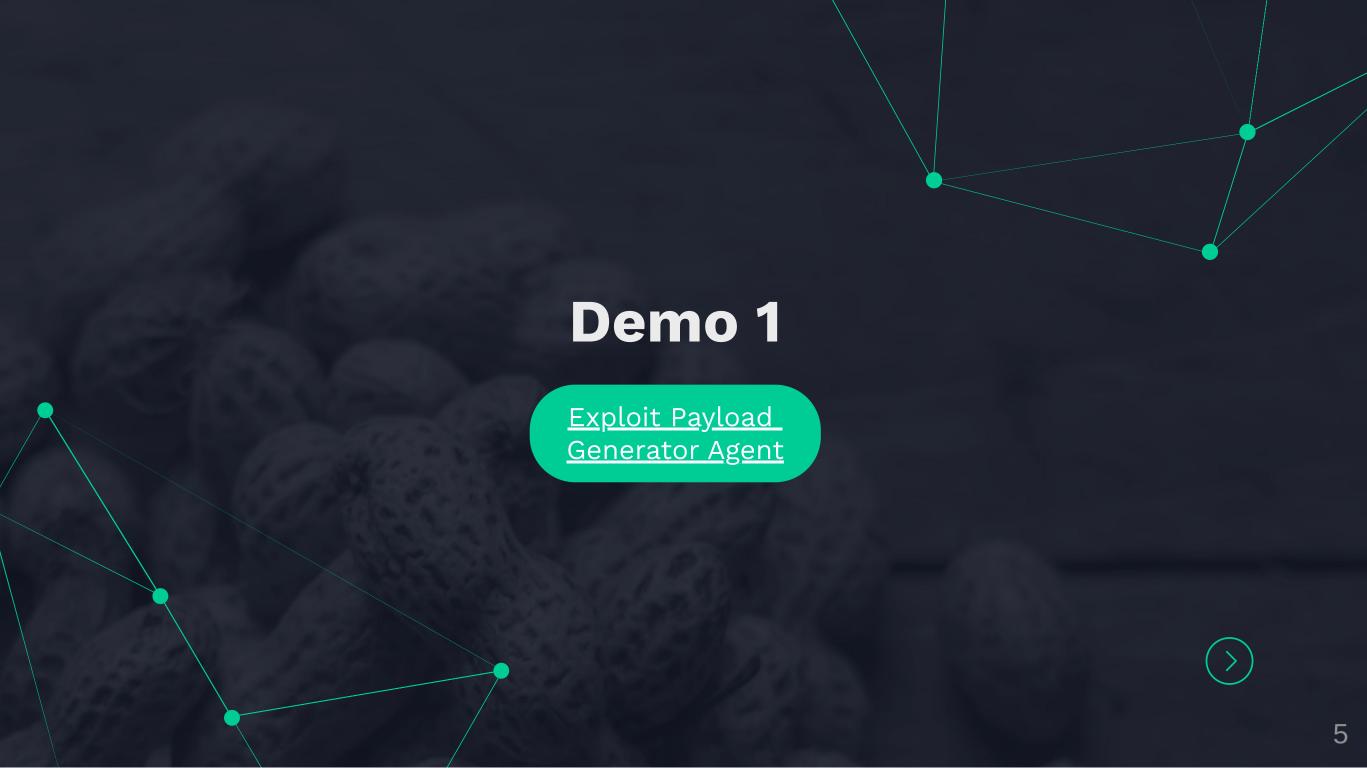


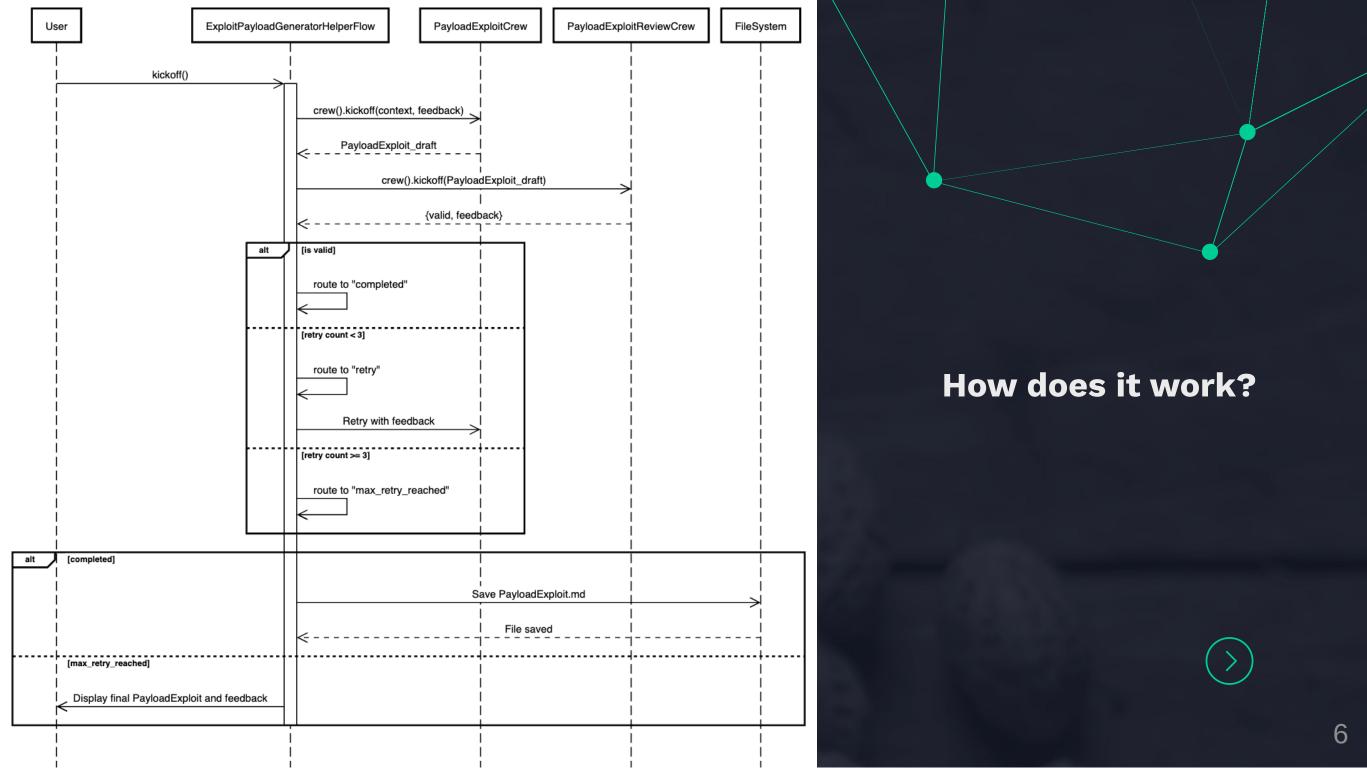


Problems?

Challenges?

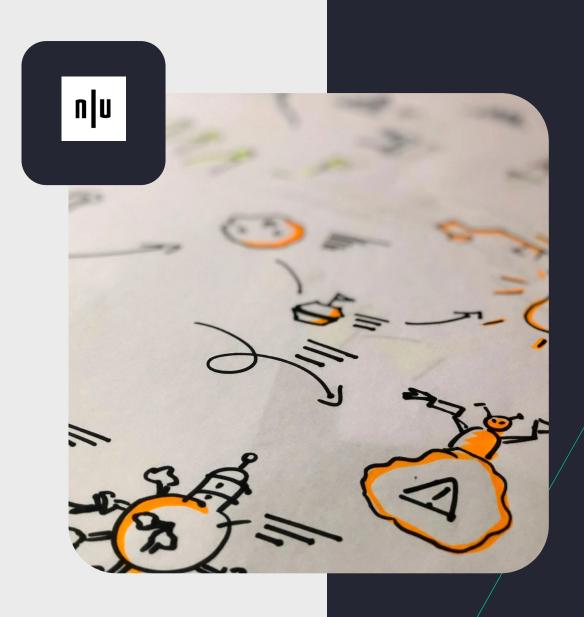
Ideas?



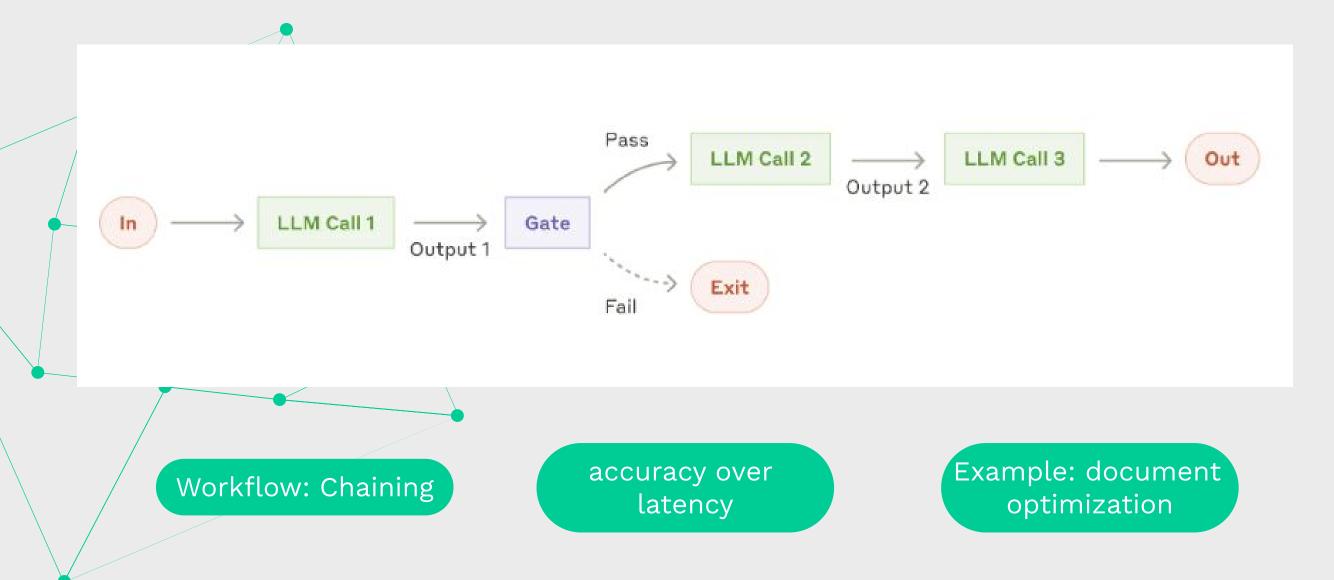




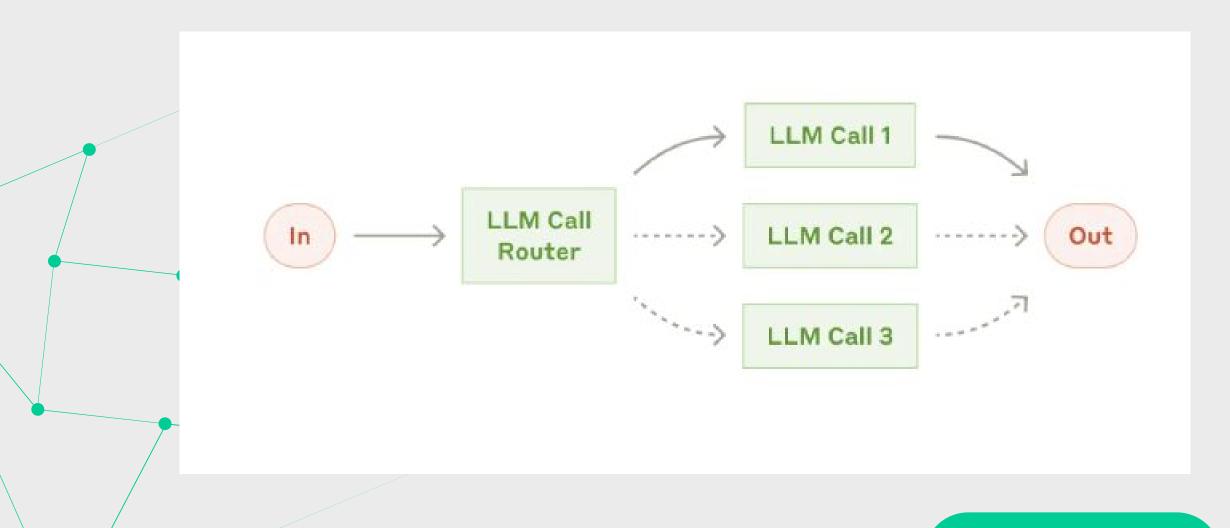
- 1 Prompt Chaining
- 2 Routing
- 3 Parallelization
- 4 Orchestrator-Workers
- 5 Evaluator-Optimizer



Prompt Chaining



Routing

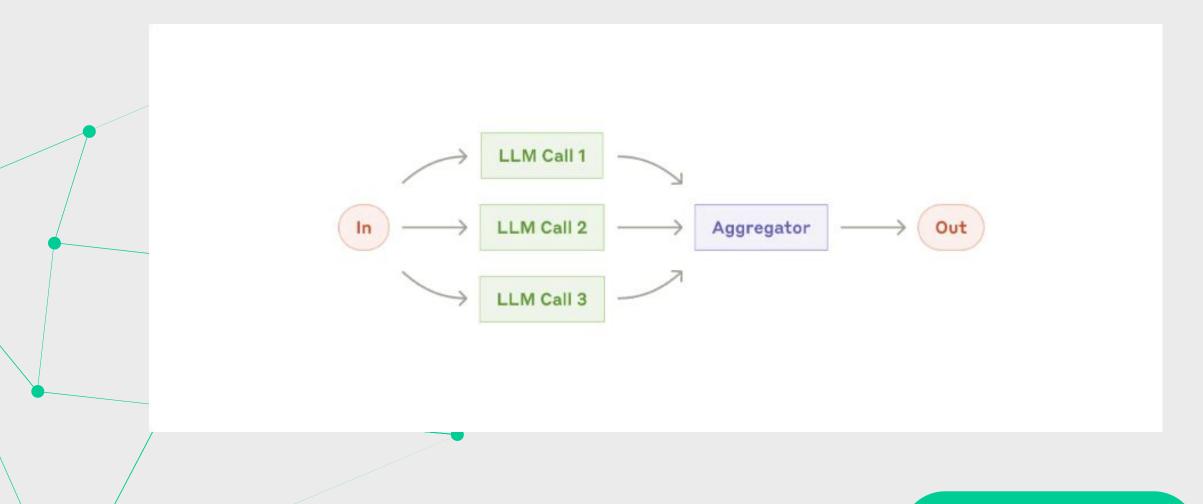


Workflow: Routing

complex to specific

Example: divide to efficient llm tasks

Parallelization

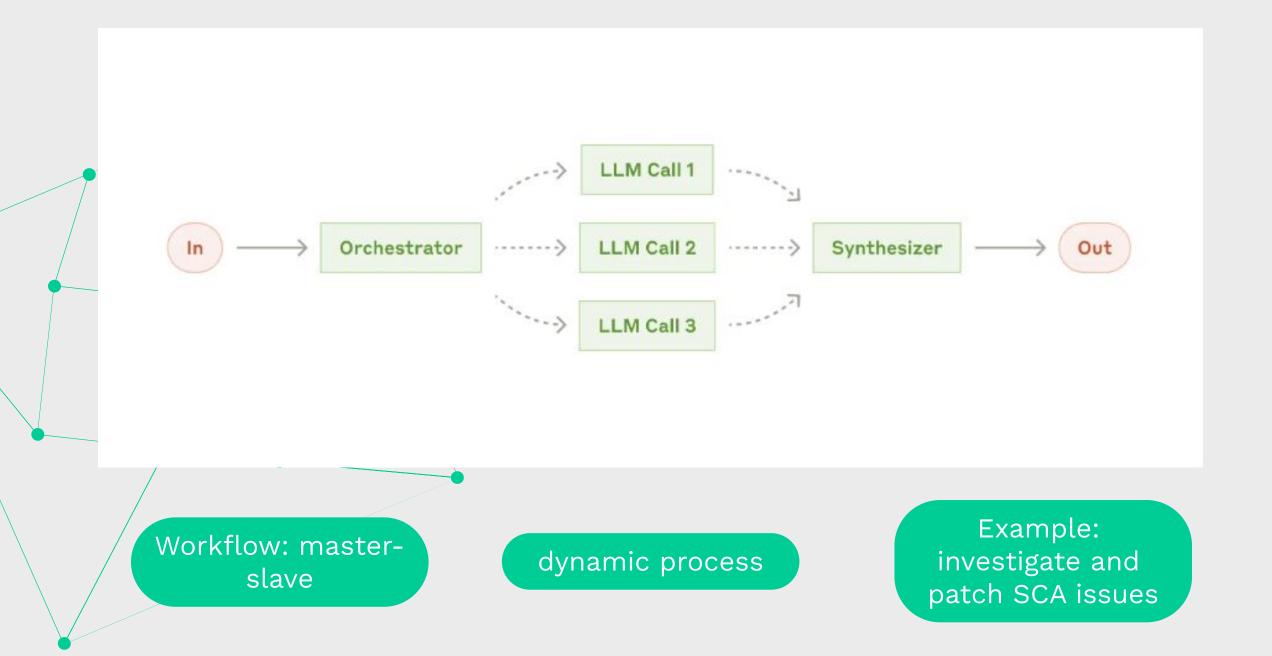


Workflow: parallel

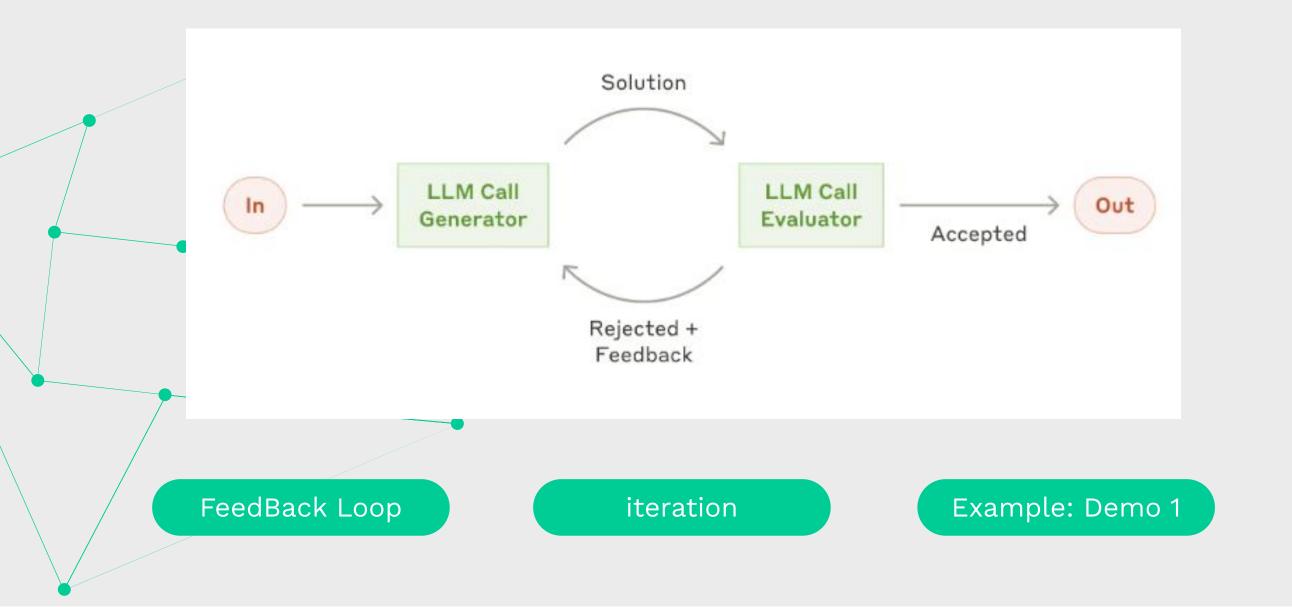
Sectioning & Voting

Example: adversary network intrustion

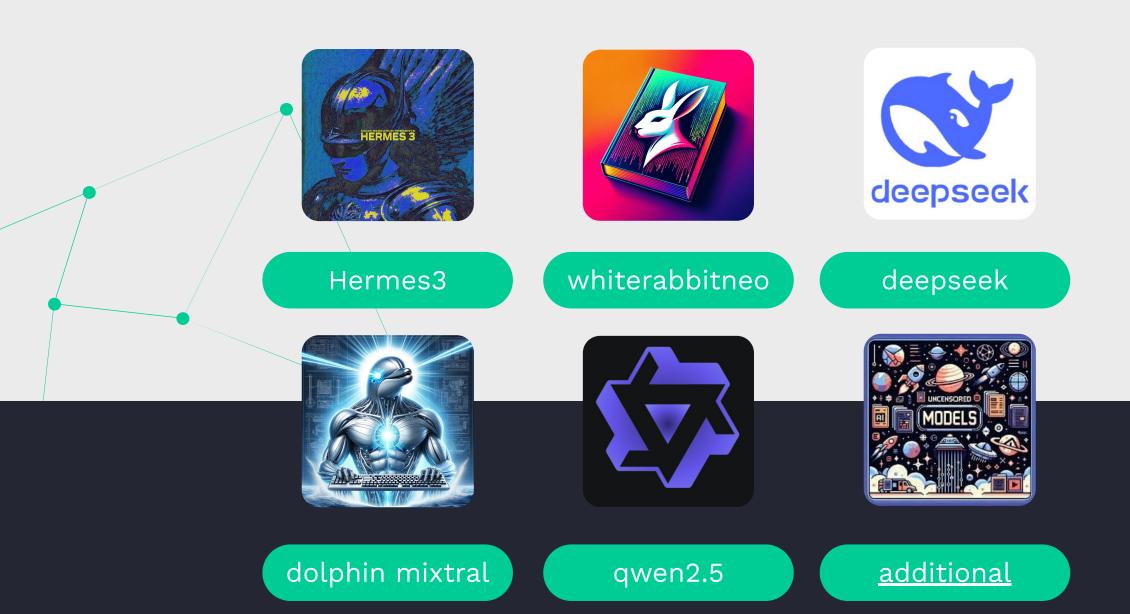
Orchestrator-Workers



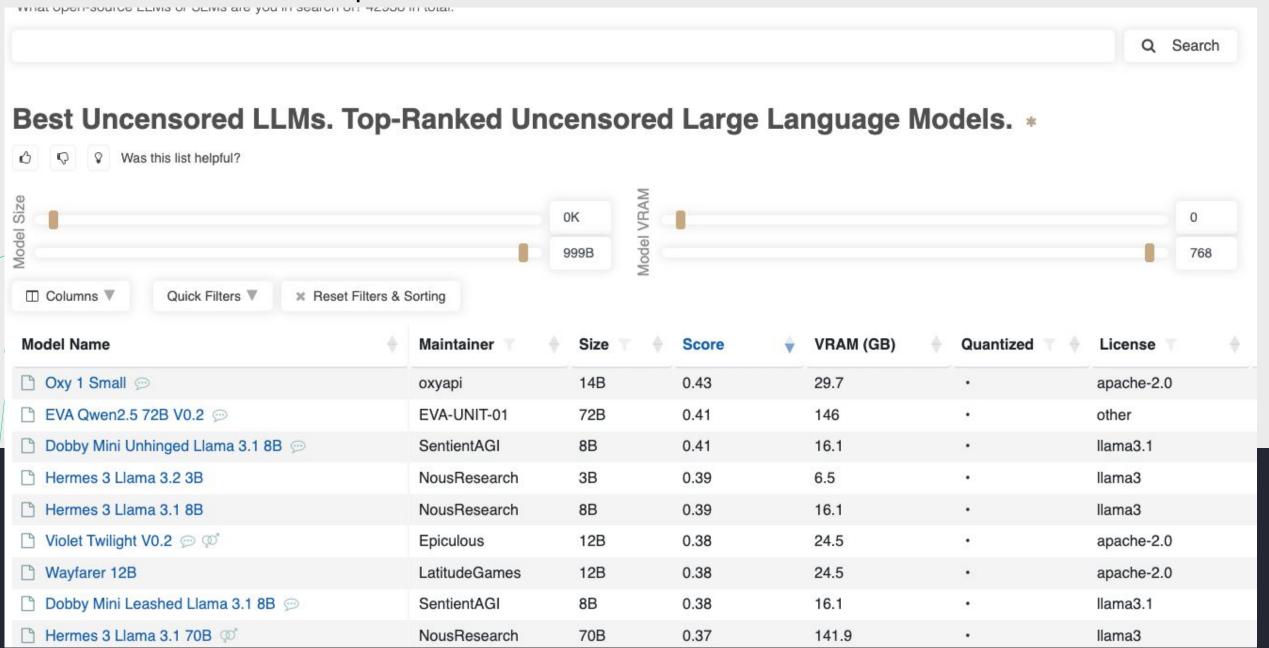
Evaluator-Optimizer



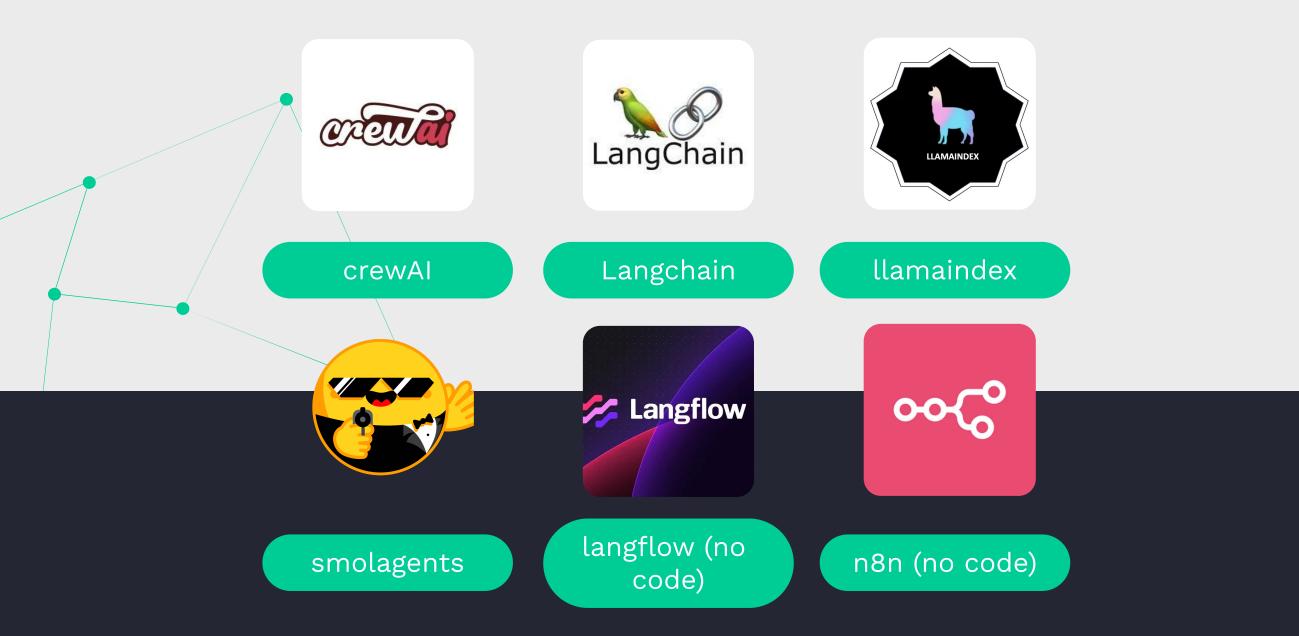
What local LLMs to use for cyber security usecase?



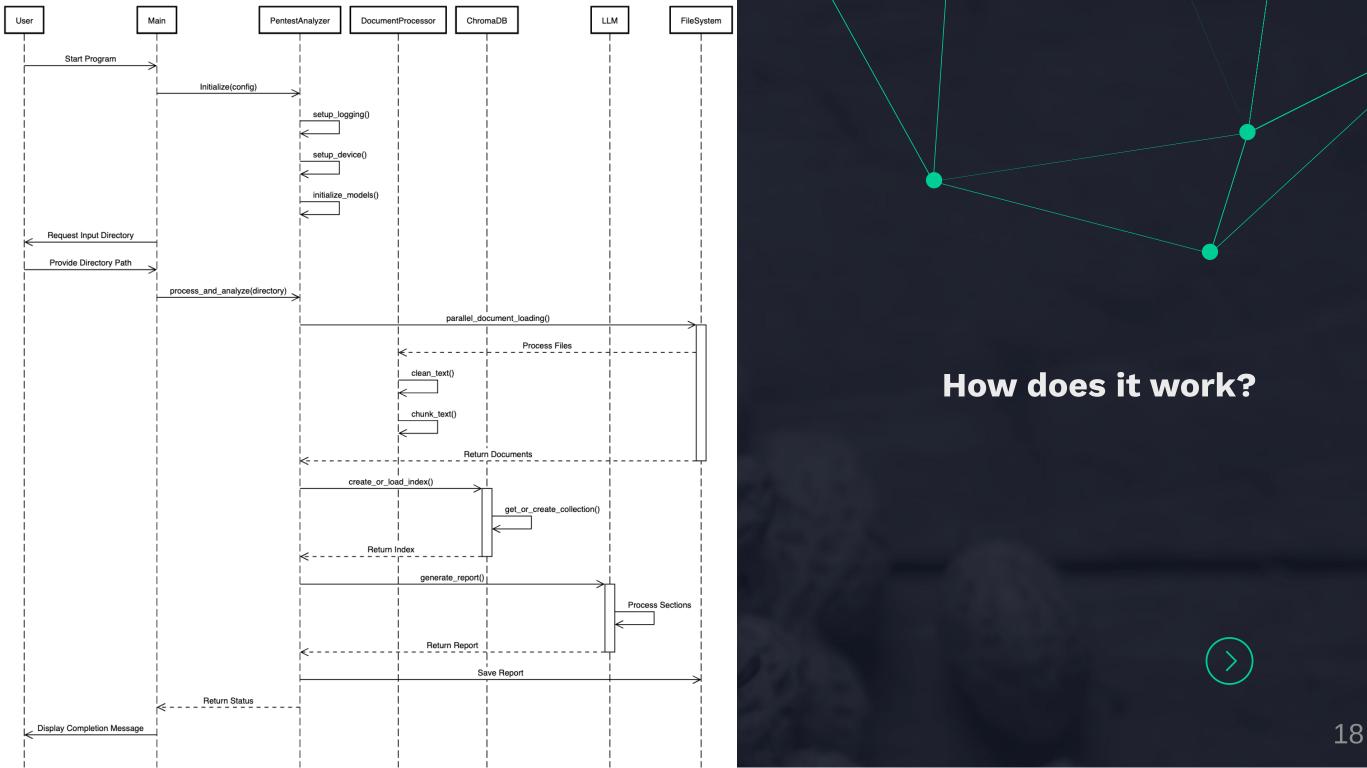
https://llm.extractum.io/list/?uncensored

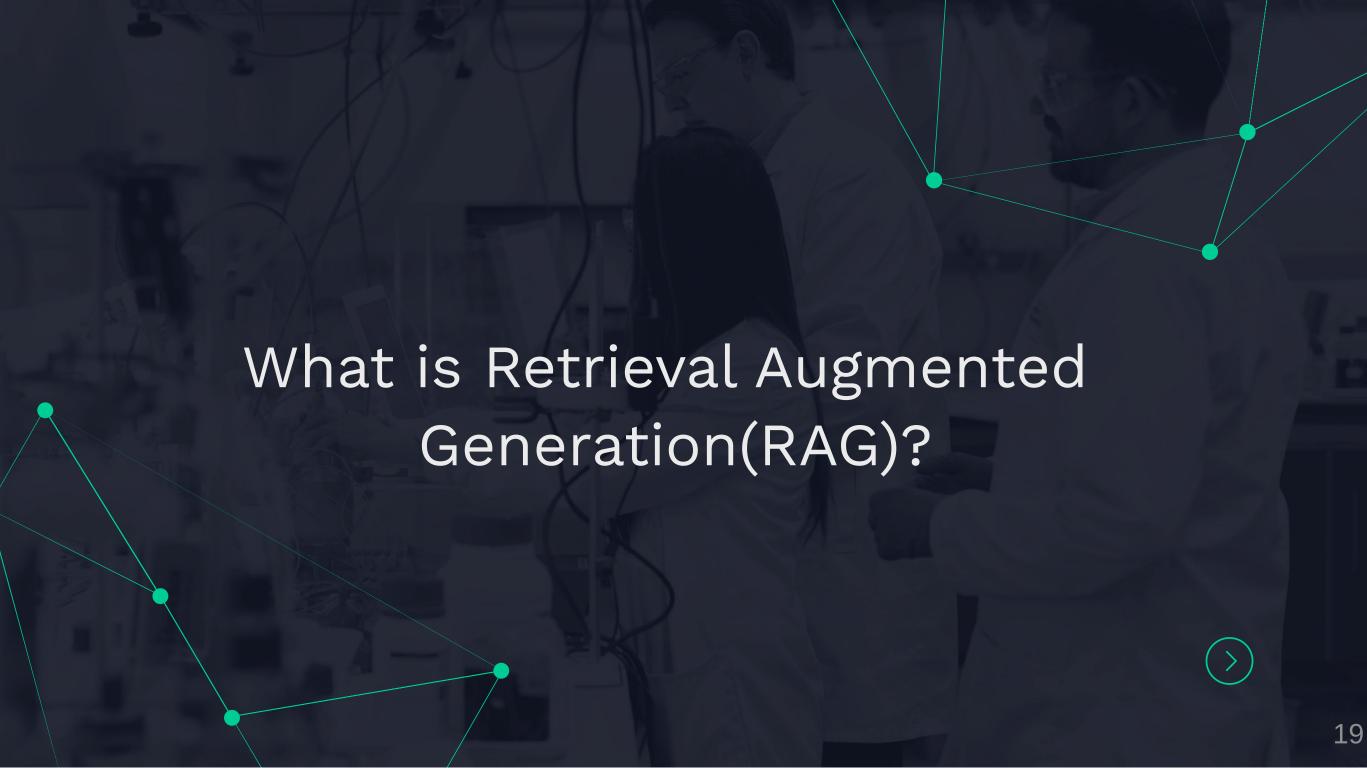


What tech stack to use for building agents?



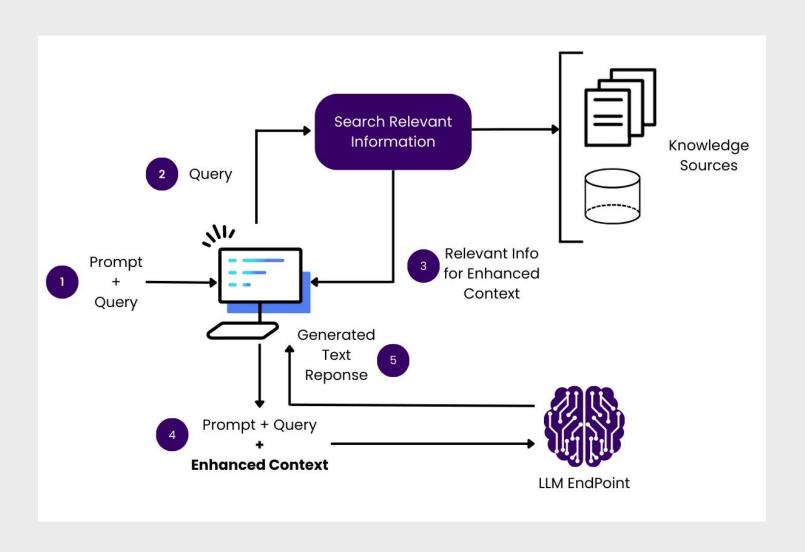






Retrieval Augmented Generation

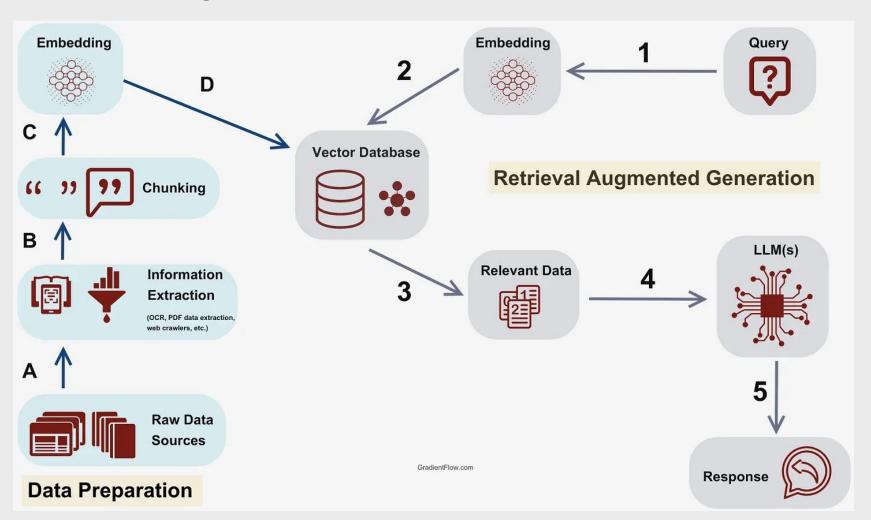
What is RAG?



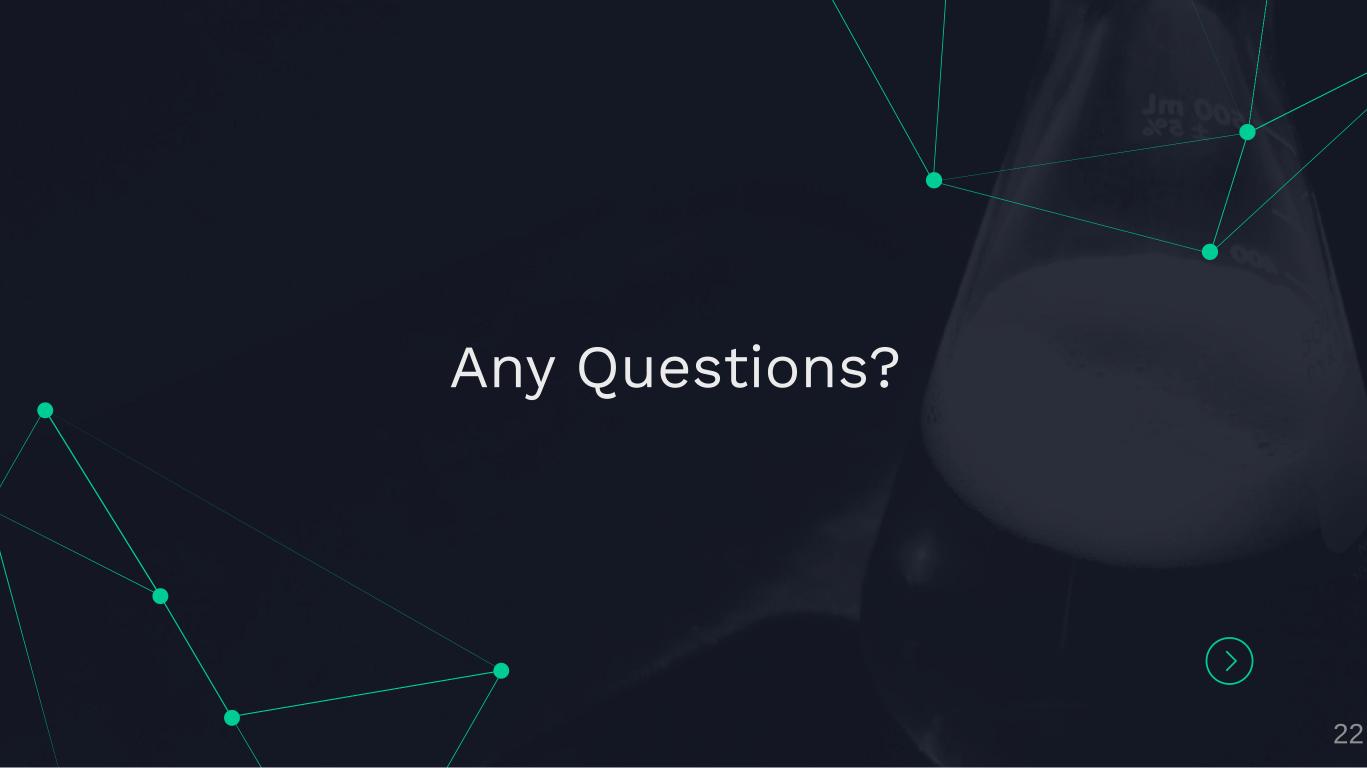


How does it work?

- Text chuncking
- Embedding
- Creating a vector Database









GitHub: https://github.com/Abhinandan-Khurana

Topmate: https://topmate.io/abhinandan_khurana