Al Researcher 🔬 🕵 📥







With Langgraph Agents & Tools

Write ready-to-publish Research Papers in 2-3 minutes

(100% Free)

Topics Covered

- Al Agents with Langgraph (Nodes & Edges)
- Agentic Workflow with Tools
- Agentic Web Scraping (LLM: Gemini 2.5-Pro)
- GenAl App development (langgraph, langchain, etc)
 - Al Agents
 - Agentic Workflow
 - Tools
- Streamlit (Frontend)
- Tools for Al Agent
 - Literature review with arXiv
 - Read & Scrape Papers
 - Ready-to-publish Research paper 0













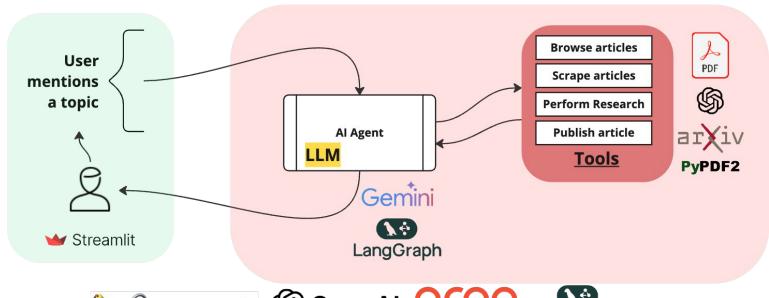


🗽 🔗 LangChain

LangGraph

ANTHROP\C

Technical Architecture











Code Setup

Phase 1: Setup Al Agent & Tools

- Setup tools
 - Setup retrieving relevant papers using arXiv tool
 - Setup read paper(PDF) online tool
 - Setup write PDF tool
- Setup Agent with langgraph

Phase 2: Setup Frontend

- Setup Streamlit
- User is able to ask question
- Show response from Agent
- Show downloadable PDF (Final Research Paper)

Phase 3: Test everything together

```
"What's my name again?"
               LangGraph
              (workflow)
    MemorySaver (checkpointer)
        uses thread_id to look up
Memory Store (indexed by thread_id)
thread_id=321 → [all past messages]
thread_id=999 → [different conversation]
                  history]
         loads + updates the history
            Model with full context
          ("Your name is Hassan.")
```