



# AI: A Navigator's Guide

Exploring RAG, Local LLMs, and Agentic Systems

Charting a course through three transformative AI technologies.



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# Local LLMs: Navigating Your Own Waters

## Benefits

- Run AI on own hardware
- Data sovereignty and privacy
- No API fees or limits

## Trade-offs

- Higher hardware needs
- Smaller model sizes

## Tools

Ollama, LM Studio, Open Web UI







# RAG: Navigating Knowledge

## Knowledge Fusion

Integrates language models with external data sources

## Accurate Responses

Generated content grounded in retrieved data

Try These Tools: Obsidian, Vector DBs, LangChain

## Targeted Search

Finds relevant info across documents and databases

## Reducing Hallucinations

Grounds output in factual information

# Agentic AI: Navigating Autonomously



Active Goals

AI that works toward defined objectives



Tool Usage

Employs tools and decision-making abilities



Learning & Problem Solving

Adapts and improves outcomes over time

## Applications

- Research assistant
- Content creation
- Code generation

## Try These

- AutoGPT
- LangChain Agents
- N8N AI automation

