COURSE SYLLABUS

Retrieval-Augmented Generation (RAG) & Knowledge Systems for Government Agencies (Advanced) (Self-Paced)

Build AI that answers from your agency's own documents - RAG end to end, from chunking and embeddings to grounded, cited answers you can trust.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://www.graduateschool.edu/courses/retrieval-augmented-generation-rag-knowledge-systems-for-government-agencies-advanced-self-paced



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Course Outline

Module 1: Why RAG, and how it works

- The grounding problem
- RAG architecture end to end
- Government use cases: policy, records, knowledge bases
- What RAG does and doesn't fix

Module 2: Preparing your content

- Chunking strategies
- Cleaning and structuring documents
- Metadata and source tracking
- Handling sensitive content

Module 3: Embeddings and retrieval

- Embeddings and vector stores
- Similarity search
- Tuning retrieval quality
- Keeping sources current

Module 4: Grounded answers and evaluation

- Assembling answers with citations
- Reducing hallucination
- Evaluating accuracy
- Handling 'I don't know'

Module 5: Plan a knowledge system (capstone)

- Scoping a RAG use case
- Designing the pipeline
- An evaluation plan
- A path to a pilot