COURSE SYLLABUS

Building AI Solutions for Government: Technical Foundations (Intermediate) (Self-Paced)

The technical on-ramp to building with AI in government - go from prompt to working prototype with APIs, step chaining, and a real government build context.

> 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/building-ai-solutions-for-government-technical-foundations-intermediate-self-paced



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Course Outline

Module 1: From using AI to building with it

- How AI applications actually work: models, APIs, and tokens
- The government build context
- Setting up your environment

Module 2: Your first API calls

- Calling a model programmatically
- Prompts as code
- Handling responses
- Basic error handling

Module 3: Chaining steps into a workflow

- Breaking a task into steps
- Passing data between steps
- Adding logic and checks
- A simple end-to-end flow

Module 4: Data, authorization, and safety in a government build

- Authorized models and environments
- Handling sensitive data
- Keeping a human in the loop
- What not to automate

Module 5: Prototype something real (capstone)

- Scoping a small, useful prototype

- Building it step by step
- Testing and iterating
- Where to go next