COURSE SYLLABUS

Building AI-Powered Applications for Government Use (Advanced) (Self-Paced)

Turn an AI prototype into a real government application - interfaces, integrations, security, and the deployment and review patterns a government app needs.

> 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-powered-applications-for-government-use-advanced-self-paced



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Course Outline

Module 1: From prototype to application

- What production really means
- Architecture of an AI app
- Government deployment realities
- Planning your build

Module 2: Building the interface and integrations

- Putting a UI on a model
- Connecting data sources and APIs
- Managing state and inputs
- Handling errors gracefully

Module 3: Security, access, and authorization

- Authentication and access control
- Protecting data and secrets
- Authorized environments and approvals
- Logging and auditability

Module 4: Deploying and operating

- Deployment options and trade-offs
- Monitoring and cost
- Updating safely
- Human review in production

Module 5: Ship a working app (capstone)

- Scoping a shippable app

- Building it end to end
- Testing with real users
- A path to production