

TIME

40+ hours

LEVEL

Advanced

PREREQUISITE

Builder map or equivalent

1 Model Selection



Match architecture and model capability to the task.

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2 System Design



Define components, data flow, failure modes, and controls.

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3 Tool Calling



Connect models to approved functions and services.

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4 Memory and State



Manage context, retrieval, and persistent knowledge.

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5 Evaluation Harness



Automate tests for quality, latency, cost, and safety.

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6 Observability



Trace prompts, tools, errors, and production behavior.

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7 Governance



Create controls for risk, privacy, security, and audit.

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8 Production Rollout



Pilot, monitor, improve, and scale deliberately.

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RELATED GLOSSARY TERMS

Foundation Model | Tool Calling | Memory | Evaluation | Observability | AI Governance



SKILLS EARNED

- Design AI systems
- Evaluate models rigorously
- Instrument production use
- Govern risk
- Scale reliable solutions

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CYBERSIDE.AI CERTIFICATE OF COMPLETION

Advanced Ai Learning Map

This certifies that

LEARNER NAME

completed the learning milestones, practical exercises, and safety checkpoints.

DATE

SIGNATURE / MENTOR



SCAN TO REVISIT THE LEARNING MAP

Certificate ID: CSAI-ADVANCED-2026