DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Azure OpenAI Advanced Training

Scale Azure OpenAI workloads across regions, orchestrate multi-agent systems and run a governed internal AI platform.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	47 topics · Foundation to Advanced
Hands-on labs	4 labs
Formats and fees	Live, 1:1, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/openai/azure-openai-and-advance-training.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

What you will achieve

By the end of the Azure OpenAI course path, you will be able to:

1

Build on Azure OpenAI

Create chat, RAG and tool-using applications on Azure OpenAI with the official SDKs.

2

Secure production AI apps

Protect, monitor and evaluate generative AI applications before and after release.

3

Scale and govern AI

Run multi-region, cost-controlled and policy-governed AI workloads for many teams.

WHAT THE ADVANCED LEVEL ADDS

Scale, reliability, governance and AI platforms

Hands-on: Operate an internal AI platform. Stand up a shared gateway with approved models across two regions, onboard two applications with budgets and run a model upgrade with evaluations.

WHO SHOULD ATTEND

- Experienced Azure OpenAI practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Azure OpenAI solutions.
- Teams making Azure OpenAI an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Secure, monitor and evaluate Azure OpenAI applications, add agents and defend them against prompt injection before production.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO ADVANCED

Azure OpenAI Advanced Training agenda

47 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

DAY 1 — Foundation: Generative AI basics and Azure OpenAI setup

Included from Foundation

1. Generative AI fundamentals: tokens, context windows, embeddings and how large language models generate text
2. Azure OpenAI positioning: OpenAI models hosted in Azure, enterprise controls and differences from the OpenAI API
3. Model catalogue: GPT chat and reasoning models, embeddings, image generation and speech models
4. Access and setup: subscription, resource creation, regions and model availability
5. Deployments: deployment names, Standard and Global Standard types and quotas in tokens per minute
6. Foundry portal playground: chat playground, system messages, parameters and viewing generated code
7. First API call: REST endpoint, api-key header, a curl request and the JSON response structure
8. SDK basics: installing the openai package for Python or JavaScript and configuring endpoint and credentials
9. Prompt basics: clear instructions, delimiters, examples and explicit output formats
10. Token economics: input, output and cached tokens and estimating cost per request
11. Responsible use basics: default content filtering, data handling commitments and acceptable use

DAY 2 — Essential: Prompting, embeddings and grounded chat

Included from Essential

12. Prompt engineering techniques: few-shot examples, step-by-step instructions, role prompts and output constraints
13. System messages: persona, scope, refusal rules and safety instructions
14. Function calling: tool definitions with JSON schema, parallel calls and executing actions safely
15. Structured outputs: strict JSON schema responses, parsing and validation
16. Embeddings: generating vectors, cosine similarity and the dimensions parameter of text-embedding-3
17. Vector stores: Azure AI Search, Azure Cosmos DB vector search and PostgreSQL with pgvector
18. RAG pipeline: ingestion, chunking strategies, metadata, retrieval and answers with citations
19. Chat history: multi-turn conversations, trimming and summarising long histories
20. Streaming and user experience: server-sent events, partial rendering and cancellation
21. Content filter configuration: severity thresholds per category and handling filtered responses
22. Prompt testing: golden question sets, regression checks and human review
23. Cost-aware design: smaller models where possible, output token limits and caching repeated answers

DAY 3 — Intermediate: Production engineering, security and monitoring

Included from Intermediate

24. Authentication: Entra ID tokens and managed identities for App Service, Functions and AKS workloads
25. Network security: private endpoints, firewall rules, disabling key-based access and key rotation
26. Secrets and configuration: Key Vault references and environment-specific settings
27. Gateway patterns: Azure API Management policies for token limits, retries and backend pools
28. Monitoring: diagnostic settings and Log Analytics queries on requests, latency and token usage
29. Application tracing: OpenTelemetry spans for prompts, tool calls and retrieval steps
30. Evaluation in CI: automated quality and safety metrics with release thresholds

31. Fine-tuning workflow: fine-tuning versus RAG, dataset preparation, training jobs and tuned deployments
32. Agents with tools: Foundry Agent Service with file search, code interpreter and custom functions
33. Prompt injection defences: Prompt Shields, input isolation, tool permission limits and output validation
34. Infrastructure as code: Bicep, Terraform or the Azure Developer CLI (azd) for repeatable environments
35. Troubleshooting: rate limiting, timeouts, filtered outputs and deployment or version errors

DAYS 4-5 **Advanced: Scale, reliability, governance and AI platforms** — New at this level

36. Provisioned throughput: PTU planning, utilisation monitoring and reservations
37. Multi-region architecture: global deployments, regional failover and latency-based routing
38. Load testing LLM apps: tokens-per-minute targets, concurrency and latency percentiles
39. Advanced RAG: hybrid retrieval, query rewriting, reranking, agentic retrieval and retrieval evaluation
40. Multi-agent orchestration: planner and worker agents, handoffs, Model Context Protocol and A2A
41. Model selection and routing: reasoning versus fast models, model router and fallbacks
42. Governance and compliance: Azure Policy guardrails, audit logging and EU AI Act readiness
43. Security operations: Defender for Cloud AI threat protection alerts sent to Microsoft Sentinel
44. FinOps for AI: token chargeback, budgets and showback dashboards per application
45. Model upgrades: retirement schedules, side-by-side evaluation and controlled rollout of new versions
46. Platform engineering: a shared AI platform with approved models, gateway and reusable components
47. Capstone: enterprise assistant with RAG, agents, private networking, evaluations and FinOps reporting

PRACTICE

Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION **Make your first Azure OpenAI calls**
Create a resource, deploy a chat model, test prompts in the playground and call the same deployment with curl and Python.

ESSENTIAL **Build a grounded document chat**
Chunk and embed a document set into a vector store, then build a streaming chat that answers with citations and calls one business function.

INTERMEDIATE **Harden an assistant for production**
Move an assistant to managed identity and private endpoints, put API Management in front, add tracing and block a prompt injection attempt.

ADVANCED **Operate an internal AI platform**
Stand up a shared gateway with approved models across two regions, onboard two applications with budgets and run a model upgrade with evaluations.

HOW YOU CAN LEARN

Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
1:1 live training (online)	Max 8-10 hours, one-to-one	The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace.	**INR 99,999**
Self-paced video	1-year LMS access	All four Azure OpenAI levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	5 days for this level	A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative).	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR AZURE OPENAI TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/openai/

ENROL OR RESERVE A SEAT
Azure OpenAI Advanced Training

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