DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Aiops Advanced Training

Design enterprise AIOps at scale with streaming pipelines, self-healing loops, SLO-driven operations and governance.

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	44 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/aiops/aiops-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 Aiops course path, you will be able to:

1

Reduce noise and MTTR

Use anomaly detection and event correlation to turn alert storms into actionable incidents.

2

Automate incident response

Connect root cause analysis, runbooks, ChatOps and ITSM to remediate issues faster.

3

Run AIOps at scale

Design governed, self-healing operations backed by SLOs and scalable telemetry pipelines.

WHAT THE ADVANCED LEVEL ADDS

Enterprise scale, self-healing and AIOps governance

Hands-on: Design an end-to-end AIOps platform. Combine streaming telemetry, anomaly detection, correlation and guarded self-healing for a microservices app and present the design.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Automate root cause analysis and remediation with runbooks, ChatOps and ITSM integration, and tune models safely.
- 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

Aiops Advanced Training agenda

44 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: AIOps concepts, telemetry and observability stack

Included from Foundation

1. What AIOps is: applying analytics and machine learning to IT operations data to observe, engage and act
2. Operations pain points: alert storms, siloed tools, manual triage and rising MTTR
3. Telemetry types: metrics, logs, traces, events and topology data
4. Monitoring versus observability: known unknowns, high-cardinality data and service health
5. AIOps platform landscape: Dynatrace Davis, Splunk ITSI, Datadog Watchdog, BigPanda and ServiceNow
6. Machine learning for operations: anomaly detection, clustering, correlation and forecasting in plain terms
7. Key operations metrics: MTTD, MTTA, MTTR, alert volume and SLIs and SLOs
8. Lab environment: Prometheus, Grafana and Loki with Docker Compose
9. Collecting first data: node_exporter metrics, application logs and a demo microservice
10. First anomaly: building a Grafana dashboard and spotting an injected CPU or latency anomaly

DAY 2 — Essential: Data pipelines, anomaly detection and correlation

Included from Essential

11. OpenTelemetry: SDKs, auto-instrumentation and the OpenTelemetry Collector pipeline
12. Log processing: parsing, enrichment and log pattern mining with Drain-style clustering
13. Data normalisation: common event formats, labels, tags and service ownership metadata
14. Anomaly detection: static thresholds versus dynamic baselines, z-scores and seasonality
15. Time-series models: moving averages, Prophet and IsolationForest in Python
16. Event correlation: deduplication, time-window and topology-based grouping
17. Alert enrichment: CMDB data, runbook links, recent deployments and ownership
18. Topology and service maps: dependency discovery from traces and Kubernetes metadata
19. Incident routing: PagerDuty or Opsgenie integration, escalation policies and on-call
20. Noise reduction metrics: compression ratio, actionable alert rate and feedback tagging
21. Dashboards for AIOps: Grafana panels for anomalies, correlated incidents and SLO burn

DAY 3 — Intermediate: Root cause analysis and automated remediation

Included from Intermediate

22. Root cause analysis: change correlation, causal graphs and probable-cause ranking
23. Change intelligence: linking CI/CD deployments and configuration changes to incidents
24. Automated remediation: runbooks with Ansible, Rundeck or StackStorm triggered by events
25. ChatOps: Slack or Microsoft Teams bots for triage, approvals and runbook execution
26. ITSM integration: ServiceNow incidents, problem records and change requests
27. Predictive analytics: capacity forecasting, disk-full and saturation prediction
28. Kubernetes AIOps: K8sGPT, Robusta and Prometheus Alertmanager routing
29. LLMs in operations: incident summaries, log explanation and postmortem drafts
30. Feedback loops: labelling incidents, retraining models and measuring precision

31. Troubleshooting AIOps: false positives, missing data, clock skew and cardinality explosions
32. Data security and access: PII masking in logs, RBAC and retention policies

DAYS 4-5 **Advanced: Enterprise scale, self-healing and AIOps governance** **New at this level**

33. Enterprise AIOps architecture: ingestion, streaming with Kafka, data lake and model layers
34. Scaling telemetry: sampling, aggregation, retention tiers and cost control
35. Self-healing systems: closed-loop automation with guardrails, approvals and rollback
36. SLO-driven operations: error budgets, burn-rate alerts and release gating
37. Agentic AI for operations: LLM agents with tool access, human-in-the-loop and audit trails
38. Model governance: explainability, versioning, bias in alerting and change control for models
39. High availability of the AIOps stack: redundancy, multi-region collectors and failover
40. Migrating from rule-based monitoring: phased rollout, parallel running and success criteria
41. AIOps maturity model: assessing current state and building a roadmap
42. Vendor evaluation: build versus buy, proof-of-value criteria and integration fit
43. FinOps for observability: telemetry volume, licence and compute cost optimisation
44. Capstone: design and demonstrate an end-to-end AIOps platform for a microservices estate

PRACTICE

Hands-on labs

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

FOUNDATION

Stand up an observability lab

Run Prometheus, Grafana and Loki with Docker Compose, collect metrics and logs from a demo app and spot an injected anomaly.

ESSENTIAL

Build an alert-noise reduction pipeline

Instrument a demo app with OpenTelemetry, detect anomalies in Python and group related alerts into single correlated incidents.

INTERMEDIATE

Auto-remediate a recurring incident

Detect a recurring service failure, enrich it with change data, open a ServiceNow ticket and run an Ansible fix from ChatOps.

ADVANCED

Design an end-to-end AIOps platform

Combine streaming telemetry, anomaly detection, correlation and guarded self-healing for a microservices app and present the design.

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 Aiops 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 AIOPS 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/aiops/

ENROL OR RESERVE A SEAT
Aiops Advanced Training

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