DevOpsSchool

Course curriculum · November 2026

LEVEL 03 OF 04 · INTERMEDIATE

# Mlops Concept Intermediate Training

Design CI, continuous training, release gates and monitoring for production models, and decide when to retrain, roll back or escalate.

| | | |
|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**3 days · Days 1-3** | SELF-PACED VIDEO<br>**1-year LMS access** |
| BATCH SIZE<br>**Max 10 learners** | NEXT BATCHES<br>**1st of every month · weekends: first Saturday** | CERTIFICATE<br>**Verifiable certificate of completion** |

| Foundation | Essential | Intermediate | Advanced |
|---|---|---|---|
| 1 day · Included | 2 days · Included | 3 days · This curriculum | 5 days · Next step |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 38 topics · Foundation to Intermediate |
| Hands-on labs | 3 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/mlops/mlops-concept-intermediate-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 Mlops Concept course path, you will be able to:

1

### Explain MLOps clearly

Describe MLOps lifecycle, architectures and metrics to engineers and leaders alike.

2

### Design production-ready ML flows

Plan data, evaluation, release, monitoring and controls for models in production.

3

### Lead governed ML adoption

Set maturity targets, governance and a roadmap for responsible ML and LLM use.

WHAT THE INTERMEDIATE LEVEL ADDS

### Automation flow, release safety, monitoring and controls

**Hands-on:** Design a gated release and monitoring. Specify the CI checks, CT trigger, promotion gate, shadow test and monitoring alerts for one model, then walk through a simulated drift incident.

WHO SHOULD ATTEND

- Regular Mlops Concept users who want to automate, integrate and manage it at a deeper level.
- Specialists who support Mlops Concept for colleagues or customers.
- Leads preparing Mlops Concept for wider use across projects.

BEFORE YOU START

- The Essential level, or equivalent hands-on experience.
- You can already: Apply core MLOps design patterns to frame use cases, manage data and features, evaluate models properly and agree team responsibilities.
- 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 INTERMEDIATE

# Mlops Concept Intermediate Training agenda

38 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: MLOps concepts, reference architectures and transition playbook

Included from Foundation

1. What MLOps is and isn't: moving from notebooks to reliable, repeatable ML systems
2. MLOps versus DevOps: data and labels, model artifacts, continuous training, evaluation and deployment
3. 2025 landscape: Git workflows, containerised training, model registries, CI/CD/CT, real-time and batch serving, observability
4. Platform patterns: AWS SageMaker, Google Vertex AI and Azure ML with similar registry, pipeline and endpoint capabilities
5. Lifecycle and versioning: version control for datasets, features and labels, experiment tracking and lineage
6. Reproducible training: containers, seeds, pinned environments and artifacted models
7. CI/CD/CT for ML: lifecycle stages from data collection and training to deployment, monitoring and maintenance
8. Collaboration: how data scientists and operations teams share ownership across the lifecycle
9. Serving and release strategies: online endpoints versus batch scoring, canary and blue-green releases, rollback
10. Observability and risk: data drift, prediction drift, quality, latency and cost SLOs, lineage, approvals, model cards
11. Lightweight security and governance: least privilege, private images, encryption, PII and policy-as-code
12. Metrics that matter: lead time to model change, release frequency, change failure rate, MTTR, offline and online metrics
13. Alerting basics: alert design and human-in-the-loop review for model decisions
14. Build versus buy and transition playbook: managed versus Kubernetes DIY, quick wins, baseline to governed in 30/60/90 days

## DAY 2 Essential: Design patterns, data, evaluation and team practices

Included from Essential

15. Framing ML products: when ML is the wrong answer, simple baselines, success criteria and go or no-go gates
16. Data lifecycle concepts: labelling workflows, data quality dimensions and data contracts for ML features
17. Training-serving skew: causes, shared feature logic and when a feature store pays off
18. Experiment discipline: naming, metadata, run comparison and a reproducibility checklist
19. Model packaging: joblib and pickle risks, ONNX, MLflow model flavours and container images
20. Model registry concepts: lifecycle states, approval steps and links back to data and code versions
21. Pipeline design: components, DAGs, caching, parameters and idempotent steps
22. Evaluation design: holdout and cross-validation, slicing by segment, baseline comparison and acceptance thresholds
23. Deployment patterns: embedded model, model as a service, batch, streaming and edge inference
24. ML testing pyramid: data tests, unit tests for features, behavioural model tests and integration tests
25. Documentation: model cards, datasheets for datasets and decision logs
26. Team topologies for ML: platform team, embedded ML engineers and a RACI for model ownership

DAY 3 **Intermediate: Automation flow, release safety, monitoring and controls** New at this level

27. CI pipeline anatomy for ML repositories: lint, unit tests, data checks and evaluation reports on pull requests
28. Continuous training triggers: schedules, new data, drift signals and their trade-offs
29. Promotion gates: champion and challenger comparison, fairness checks and manual approval points
30. Online experiments: shadow mode, A/B tests, traffic split sizing and statistical significance
31. Monitoring design: inputs, outputs, delayed ground truth, proxy metrics and segment-level views
32. Alerting and on-call for models: thresholds, severity, ownership and runbooks
33. Model incident patterns: silent failures, upstream schema changes, feedback loops and training data leaks
34. Retrain or roll back: decision rules, fallback models and business rule safety nets
35. Security controls: artifact integrity, secrets, access reviews and PII minimisation in training data
36. Policy-as-code: encoding promotion and deployment rules with OPA or cloud policy services
37. Cost awareness: GPU utilisation, batch versus online serving cost and per-model spend tracking
38. Worked walkthrough: the same CI/CD/CT flow on SageMaker, Vertex AI or Azure ML compared step by step

PRACTICE

## Hands-on labs

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

FOUNDATION **Map your ML delivery path**

Draw the current path of one model from notebook to production, score it against the lifecycle stages and pick three quick wins for the next 30 days.

ESSENTIAL **Design one model's MLOps blueprint**

For a churn or fraud use case, write the success criteria, data contract, evaluation plan, deployment pattern and model card your team would sign off.

INTERMEDIATE **Design a gated release and monitoring**

Specify the CI checks, CT trigger, promotion gate, shadow test and monitoring alerts for one model, then walk through a simulated drift incident.

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 Mlops Concept levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 3 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 MLOPS CONCEPT 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/mlops/

ENROL OR RESERVE A SEAT
**Mlops Concept Intermediate Training**

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**Next step after this level: Mlops Concept Advanced Training** - Lead MLOps at organisation level with a maturity roadmap, model risk governance, AI regulation readiness and LLMOps practices.