DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

# Modelops Essential Training

Package models in containers, deploy them to Kubernetes and automate build, test and release with a CI/CD pipeline.

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|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**2 days · Days 1-2** | 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 · This curriculum | 3 days · Next step | 5 days · Later |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 21 topics · Foundation to Essential |
| Hands-on labs | 2 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/modelops/modelops-essential-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 Modelops course path, you will be able to:

1

### Operationalise models reliably

Take models from development to production with version control, CI/CD, containers and Kubernetes.

2

### Monitor, scale and secure

Keep deployed models observable, scalable and protected with metrics, alerts and access control.

3

### Govern the model portfolio

Apply compliance, risk management and audit practices across every model the organisation runs.

WHAT THE ESSENTIAL LEVEL ADDS

### CI/CD, containers and Kubernetes for models

**Hands-on:** Containerised model on Kubernetes. Build a CI/CD pipeline that tests a model, builds a Docker image and deploys the serving API to a Kubernetes cluster.

WHO SHOULD ATTEND

- Learners who know the basics of Modelops and want to use it confidently every day.
- Professionals taking over Modelops work on a live project.
- Teams agreeing on a common way of working with Modelops.

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Explain ModelOps and the model development life cycle, refresh ML basics and put a first model and its code under version control.
- 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 ESSENTIAL

# Modelops Essential Training agenda

21 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: ModelOps concepts, ML basics and version control

Included from Foundation

1. Introduction to ModelOps: what ModelOps is, why it is important and where it sits beside MLOps, DataOps and AIOps
2. Model development life cycle: business problem, data, build, validate, deploy, monitor and retire
3. Model types in scope: machine learning, rules, optimisation, statistical models and generative AI models
4. Introduction to machine learning: types of machine learning and common algorithms
5. Feature engineering: transforming raw data into model features and avoiding leakage
6. Model selection and evaluation: train, validation and test splits and choosing metrics
7. Introduction to DevOps: DevOps principles and practices applied to models
8. Git and version control: repositories, branches and pull requests for model code and configuration
9. Model inventory: recording owners, purpose, data sources, versions and status for every model
10. First working example: training a scikit-learn model and saving a versioned artifact with metadata

## DAY 2 — Essential: CI/CD, containers and Kubernetes for models

New at this level

11. Continuous integration and continuous deployment (CI/CD): pipelines for model code, tests and artifacts
12. Model testing in CI: unit tests, data checks and minimum performance thresholds
13. Introduction to containers: why models ship in containers and image layering
14. Docker basics: Dockerfile, build, run, tag and push a model-serving image
15. Model serving: exposing predictions through a REST API with FastAPI or Flask
16. Introduction to container orchestration: scheduling, self-healing and service discovery
17. Kubernetes basics: Pods, Deployments, Services, ConfigMaps and Secrets for a model service
18. Model registry: MLflow registry versions, stages or aliases and promotion
19. Environment promotion: dev, test and production with approvals
20. Batch scoring: scheduled scoring jobs with Kubernetes CronJobs
21. Team workflow: code review, release notes and rollback for model changes

PRACTICE

# Hands-on labs

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

FOUNDATION

**Version a first model**

Train a simple model, save the artifact with metadata, commit code and configuration to Git and register it in a model inventory.

ESSENTIAL

**Containerised model on Kubernetes**

Build a CI/CD pipeline that tests a model, builds a Docker image and deploys the serving API to a Kubernetes cluster.

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 Modelops levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 2 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 MODELOPS 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/modelops/


ENROL OR RESERVE A SEAT
**Modelops Essential Training**

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**Next step after this level: Modelops Intermediate Training** - Monitor, scale and secure deployed models with metrics, logs, alerts, autoscaling and access control.