DevOpsSchool

Course curriculum · November 2026

LEVEL 01 OF 04 · FOUNDATION

# ML Foundation Training

Understand how machine learning works, set up a Python ML environment and train and evaluate your first scikit-learn model.

| | | |
|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**1 day · Day 1** | 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**
1 day · This curriculum

**Essential**
2 days · Next step

**Intermediate**
3 days · Later

**Advanced**
5 days · Later

## INSIDE THIS CURRICULUM

| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 11 topics · Foundation |
| Hands-on labs | 1 lab |
| 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/ml/ml-foundation-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 ML course path, you will be able to:

1

### Build sound ML models

Prepare data and train, evaluate and tune classical machine learning models with scikit-learn.

2

### Apply deep learning and NLP

Use TensorFlow, PyTorch and Hugging Face to solve vision, language and forecasting problems.

3

### Ship ML responsibly

Deploy, monitor and govern models in production with attention to fairness, privacy and regulation.

WHAT THE FOUNDATION LEVEL ADDS

### ML concepts, Python setup and first model

**Hands-on:** Your first prediction model. Clean a housing dataset with pandas and train, test and evaluate a linear regression model in scikit-learn.

WHO SHOULD ATTEND

- Beginners and working professionals who are new to ML and want a solid, hands-on start.
- Engineers, analysts, testers and students preparing to use ML on real work.
- Leads and managers who want first-hand familiarity with ML.

BEFORE YOU START

- No prior ML experience is needed.
- 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

# ML Foundation Training agenda

11 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: ML concepts, Python setup and first model

**New at this level**

1. Introduction to machine learning: definition, its evolution and how it differs from rule-based programming
2. Types of machine learning: supervised, unsupervised, reinforcement and self-supervised learning
3. Potential applications of machine learning: forecasting, fraud detection, recommendations, vision and language
4. The ML workflow: problem framing, data collection, preparation, training, evaluation and deployment
5. Environment setup: Python, Jupyter, NumPy, pandas, Matplotlib and scikit-learn in a virtual environment
6. Working with data in pandas: loading CSV files, exploring, filtering and summary statistics
7. Data preprocessing and cleaning: missing values, duplicates, outliers and data types
8. Overview of supervised and unsupervised learning: labels, features, targets and clusters
9. Train and test split: why we hold out data and how data leakage happens
10. Performance metrics: accuracy, precision and recall and when accuracy misleads
11. First model: linear regression with scikit-learn fit, predict and score

PRACTICE

# Hands-on labs

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

FOUNDATION

**Your first prediction model**

Clean a housing dataset with pandas and train, test and evaluate a linear regression model in scikit-learn.

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 ML levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 1 day 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 ML 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/ml/


ENROL OR RESERVE A SEAT
**ML Foundation Training**

WHATSAPP · INDIA
**+91 99057 40781**

WHATSAPP · USA
**+1 (469) 756-6329**

EMAIL
**contact@DevOpsSchool.com**


**Next step after this level: ML Essential Training** - Build, compare and tune supervised and unsupervised models with scikit-learn pipelines and sound evaluation techniques.