DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

Artificial Intelligence Essential Training

Prepare data, train and evaluate core machine learning models and build a first neural network in PyTorch or Keras.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **2 days · Days 1-2**	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 · 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	23 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/ai/artificial-intelligence-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 Artificial Intelligence course path, you will be able to:

1

Build machine learning models

Prepare data and train, tune and evaluate classical and deep learning models in Python.

2

Apply LLMs and RAG

Use prompt engineering, embeddings and retrieval to build useful generative AI applications.

3

Run AI in production

Deploy, monitor, secure and govern AI systems with MLOps practices.

WHAT THE ESSENTIAL LEVEL ADDS

Core machine learning and neural networks

Hands-on: Build an end-to-end prediction pipeline. Clean a real dataset, compare three algorithms with cross-validation and train a small neural network for the same task.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Explain how AI, machine learning and generative AI work, set up a Python environment and train a first model.
- 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

Artificial Intelligence Essential Training agenda

23 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: AI concepts, Python setup and first model

Included from Foundation

1. What AI is: narrow and general AI, machine learning, deep learning and generative AI in context
2. Classical AI: search algorithms such as BFS, DFS and A*, rule-based and expert systems
3. Types of learning: supervised, unsupervised, self-supervised and reinforcement learning
4. Real-world use cases: vision, language, recommendation, forecasting and automation
5. Python environment: Anaconda or venv, pip, Jupyter Notebook and VS Code setup
6. Python data stack: NumPy arrays, pandas DataFrames and Matplotlib plots
7. Math for AI: vectors and matrices, probability, statistics and the intuition of gradients
8. Data basics: datasets, features, labels, train/test splits and data quality
9. First model: training a scikit-learn classifier on the Iris dataset and making predictions
10. Evaluation basics: accuracy, confusion matrix and why a held-out test set matters
11. Responsible AI basics: bias, fairness, privacy and transparency from day one

DAY 2 — Essential: Core machine learning and neural networks

New at this level

12. Data preparation: cleaning, missing values, encoding categories, scaling and pandas pipelines
13. Exploratory data analysis: distributions, correlations and visualisation with Seaborn
14. Regression: linear, polynomial and regularised regression with Ridge and Lasso
15. Classification: logistic regression, k-NN, decision trees, random forests and gradient boosting
16. Clustering and dimensionality reduction: k-means, DBSCAN, PCA and t-SNE
17. Model evaluation: precision, recall, F1, ROC-AUC, MAE and RMSE for the right problem
18. Cross-validation and tuning: k-fold, GridSearchCV, RandomizedSearchCV and avoiding leakage
19. Feature engineering: feature creation, selection, interaction terms and scikit-learn Pipelines
20. Neural network basics: perceptrons, activation functions, loss, backpropagation and optimisers
21. Deep learning frameworks: building and training a network with PyTorch or TensorFlow Keras
22. NLP basics: tokenisation, bag of words, TF-IDF and text classification
23. Computer vision basics: images as tensors, convolution and a simple image classifier

PRACTICE

Hands-on labs

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

FOUNDATION

Train your first classifier

Set up Jupyter with pandas and scikit-learn, explore a small dataset and train and evaluate a first classification model.

ESSENTIAL

Build an end-to-end prediction pipeline

Clean a real dataset, compare three algorithms with cross-validation and train a small neural network for the same task.

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 Artificial Intelligence 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 ARTIFICIAL INTELLIGENCE 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/ai/

ENROL OR RESERVE A SEAT
Artificial Intelligence Essential Training

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Next step after this level: Artificial Intelligence Intermediate Training - Apply transformers and LLMs with prompt engineering and RAG, track experiments and deploy models as APIs.