DevOpsSchool

Course curriculum · November 2026

LEVEL 01 OF 04 · FOUNDATION

Deep Learning Foundation Training

Understand how neural networks learn and train your first deep learning model in PyTorch on a GPU-ready setup.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **1 day · Day 1**	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 · This curriculum	2 days · Next step	3 days · Later	5 days · Later

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	12 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/deeplearning/deep-learning-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 Deep Learning course path, you will be able to:

1

Build modern neural networks

Design and train CNNs, sequence models and transformers in PyTorch for real datasets.

2

Fine-tune pretrained models efficiently

Adapt pretrained vision and language models with transfer learning and LoRA.

3

Ship models to production

Optimise, deploy and monitor deep learning models with scalable training and serving tools.

WHAT THE FOUNDATION LEVEL ADDS

Neural network concepts, PyTorch setup, first model

Hands-on: Train your first neural network. Build, train and evaluate a PyTorch classifier on Fashion-MNIST, plot loss curves and report test accuracy.

WHO SHOULD ATTEND

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

BEFORE YOU START

- No prior Deep Learning 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

Deep Learning Foundation Training agenda

12 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: Neural network concepts, PyTorch setup, first model

New at this level

1. Deep learning landscape: AI versus machine learning versus deep learning, where deep learning wins and its limits
2. Math refresher: vectors, matrices, tensors, derivatives, chain rule and probability for neural networks
3. Perceptron and multilayer networks: neurons, weights, biases, layers and forward propagation
4. Activation functions: sigmoid, tanh, ReLU, GELU and softmax and when to use each
5. Loss functions: mean squared error, cross-entropy and binary cross-entropy
6. Backpropagation and gradient descent: computing gradients, learning rate, batch, mini-batch and stochastic updates
7. Environment setup: Python, Jupyter, conda or uv, PyTorch with CUDA, Google Colab and checking the GPU
8. PyTorch tensors: creation, indexing, broadcasting, device placement and autograd
9. Building models: nn.Module, nn.Linear, nn.Sequential, optimizers and the training loop
10. Data handling: Dataset and DataLoader, train, validation and test splits, normalisation
11. Evaluation basics: accuracy, precision, recall, confusion matrix and learning curves
12. First example: classify handwritten digits on MNIST or Fashion-MNIST with a fully connected network

PRACTICE

Hands-on labs

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

FOUNDATION

Train your first neural network

Build, train and evaluate a PyTorch classifier on Fashion-MNIST, plot loss curves and report test accuracy.

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 Deep Learning 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 DEEP LEARNING 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/deeplearning/

ENROL OR RESERVE A SEAT
Deep Learning Foundation Training

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Next step after this level: Deep Learning Essential Training - Build and tune convolutional and sequence models, prevent overfitting and reuse pretrained networks for your own data.