



# Deep Learning Program

## Master Deep Learning. Create the Next Wave of Intelligent Systems.

Deep Learning is at the heart of today's AI revolution—enabling machines to see, listen, understand, and generate like humans. From autonomous vehicles to advanced chatbots, from medical diagnosis to creative AI—Deep Learning is powering the future.

At **Certed Technologies**, our Deep Learning Program equips you with cutting-edge skills to design, train, and deploy deep neural networks for real-world applications.

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## Why Deep Learning? Why Now?

Deep Learning is rapidly transforming industries—healthcare, automotive, finance, robotics, and content generation. Breakthroughs in computer vision, NLP, and generative models (like ChatGPT, DALL·E) are driven by deep neural networks.

**The demand for Deep Learning Engineers is surging** as companies race to innovate with AI-first products.

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## Learn from Deep Learning Experts

Get trained by industry veterans, researchers, and practitioners with real-world expertise in deep neural networks, Generative AI, and production-grade model deployment. Our mentors bring experience from top AI labs and companies.

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## Program Highlights

Feature	Description
Duration	6 Months / 450 Hours
Delivery Mode	Hybrid (Online + Offline)
Tools & Platforms	TensorFlow, PyTorch, Keras, OpenCV, Hugging Face, etc.

<b>Project Work</b>	5+ Real Projects + 1 Capstone Project
<b>Certifications</b>	Industry Certificate + Deep Learning Skills Badge
<b>Career Support</b>	Resume Reviews, Interview Prep, Hiring Connects

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## What You'll Learn

Our curriculum takes you from the **basics of neural networks to advanced architectures and deployment.**

### **Module 1: Deep Learning Foundations**

- Introduction to Deep Learning & Neural Networks
- Perceptron, Backpropagation, Activation Functions
- Loss Functions, Optimizers & Gradient Descent

### **Module 2: TensorFlow & PyTorch**

- Building Neural Nets with TensorFlow & Keras
- PyTorch Tensors, Autograd, Modules
- Training, Testing & Debugging Deep Models

### **Module 3: Convolutional Neural Networks (CNNs)**

- CNN Architecture: Convolutions, Pooling, Filters
- Image Classification, Object Detection
- Transfer Learning with Pre-trained Models (ResNet, VGG, etc.)

### **Module 4: Recurrent Neural Networks (RNNs)**

- RNNs, LSTMs, GRUs for Sequential Data

- Time Series Forecasting
- Text Generation & Sequence Modeling

## **Module 5: Natural Language Processing with Deep Learning**

- Word Embeddings (Word2Vec, GloVe)
- Text Classification, Sentiment Analysis
- Transformers, BERT, GPT with Hugging Face

## **Module 6: Generative Deep Learning**

- Autoencoders, Variational Autoencoders
- GANs (Generative Adversarial Networks)
- Diffusion Models and Stable Diffusion Introduction

## **Module 7: Deployment & MLOps**

- Model Serialization & Conversion (ONNX, SavedModel)
- Building DL Apps with Streamlit/Flask
- Cloud Deployment: Google Colab, AWS, Hugging Face Hub

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## **Career Outcomes**

This course prepares you for job roles like:

- Deep Learning Engineer
- Computer Vision Engineer
- NLP Engineer

- AI Researcher
- Generative AI Developer

### Top Hiring Domains:

Healthcare | Automotive | Robotics | Fintech | Media & Entertainment | Research Labs

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## Tools & Technologies Covered

TensorFlow | PyTorch | Keras | OpenCV | Hugging Face | Scikit-learn | Google Colab | Streamlit  
| NumPy | Pandas | Git & GitHub | Flask

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## Capstone Project Examples

- Face Recognition System using CNNs
  - Chatbot using RNN + Transformers
  - AI Art Generator using GANs
  - Fake News Detection using BERT
  - Sign Language Recognition with Deep Learning
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## Certification

You'll receive a **Joint Certification** from Certed Technologies + Industry Partners, along with a digital badge demonstrating your proficiency in Deep Learning.

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## What Makes This Course Unique?

- ✓ Built for Industry with Latest Architectures
- ✓ Mentorship by Deep Learning Practitioners

- ✓ Access to GPU-Enabled Labs
  - ✓ Project-Based Learning with Capstone
  - ✓ Lifetime Access to All Materials + AI Career Network
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## Upcoming Batch

Batch Start Date	Mode	Status
15 July 2025	Online	Open
22 July 2025	Offline	Few Seats Left
05 August 2025	Hybrid	Open

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## Custom Deep Learning Training for Corporates

### AI-Powered Workforce Transformation

We help organizations unlock the power of Deep Learning with **tailored training programs** designed for their teams. Whether it's computer vision, NLP, or GenAI—we build custom modules mapped to your **business objectives** and **tech stack**.

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### We Customize:

- **Domain-Relevant Curriculum:** From predictive modeling to generative AI
  - **Real Business Projects:** Based on your data & challenges
  - **Flexible Delivery:** Onsite workshops, virtual live, blended options
  - **Certification & Assessments:** Branded credentials + skills validation
  - **Post-Training Support:** Mentorship, project help, AI consulting
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### Corporate Teams Who Benefit:

- AI/ML Engineering Teams – Build & scale intelligent models
  - Product Teams – Create AI-integrated products
  - Analytics & BI Teams – Add deep learning to analytical workflows
  - CXOs & Digital Officers – Drive intelligent transformation
  - L&D Leaders – Structure upskilling & career acceleration
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## Talk to an Advisor

 Email: [support@certedtechnologies.com](mailto:support@certedtechnologies.com)

 Call/WhatsApp: +91-8920158923 | +91-9009015026

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## Ready to Build Deep Learning Systems?

**“Deep Learning is not just the future—it’s the present. Learn to build the world’s smartest machines.”**

 [Enroll Now](#) [ [Request a Callback](#)]

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## Frequently Asked Questions (FAQs)

- 1. Who is this course meant for?**  
Students, developers, and working professionals interested in building AI systems using deep learning.
- 2. Is prior knowledge of ML required?**  
Basic understanding of ML and Python helps. We revise the essentials before diving deeper.
- 3. Will I get certified?**  
Yes. You'll earn a recognized Deep Learning Certificate + skills badge.

4. **Are real-world projects included?**

Absolutely. Projects range from computer vision to chatbots to generative AI applications.

5. **Does this course include job support?**

Yes. Mock interviews, resume reviews, hiring partner access, and LinkedIn optimization are included.

6. **What is the delivery format?**

Online (live & recorded), offline (classroom), and hybrid batches available.

7. **Can I access course materials later?**

Yes. Lifetime access is provided to all course content.

8. **Is it updated with GenAI tools?**

Yes! Transformers, BERT, and Generative AI (GANs, VAEs, Diffusion Models) are included.

9. **Do I get hands-on with PyTorch and TensorFlow?**

Yes. Both frameworks are covered so you can work with any modern AI stack.

10. **Can this be customized for teams?**

Absolutely. We offer corporate deep learning programs with tailored projects and delivery modes.

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