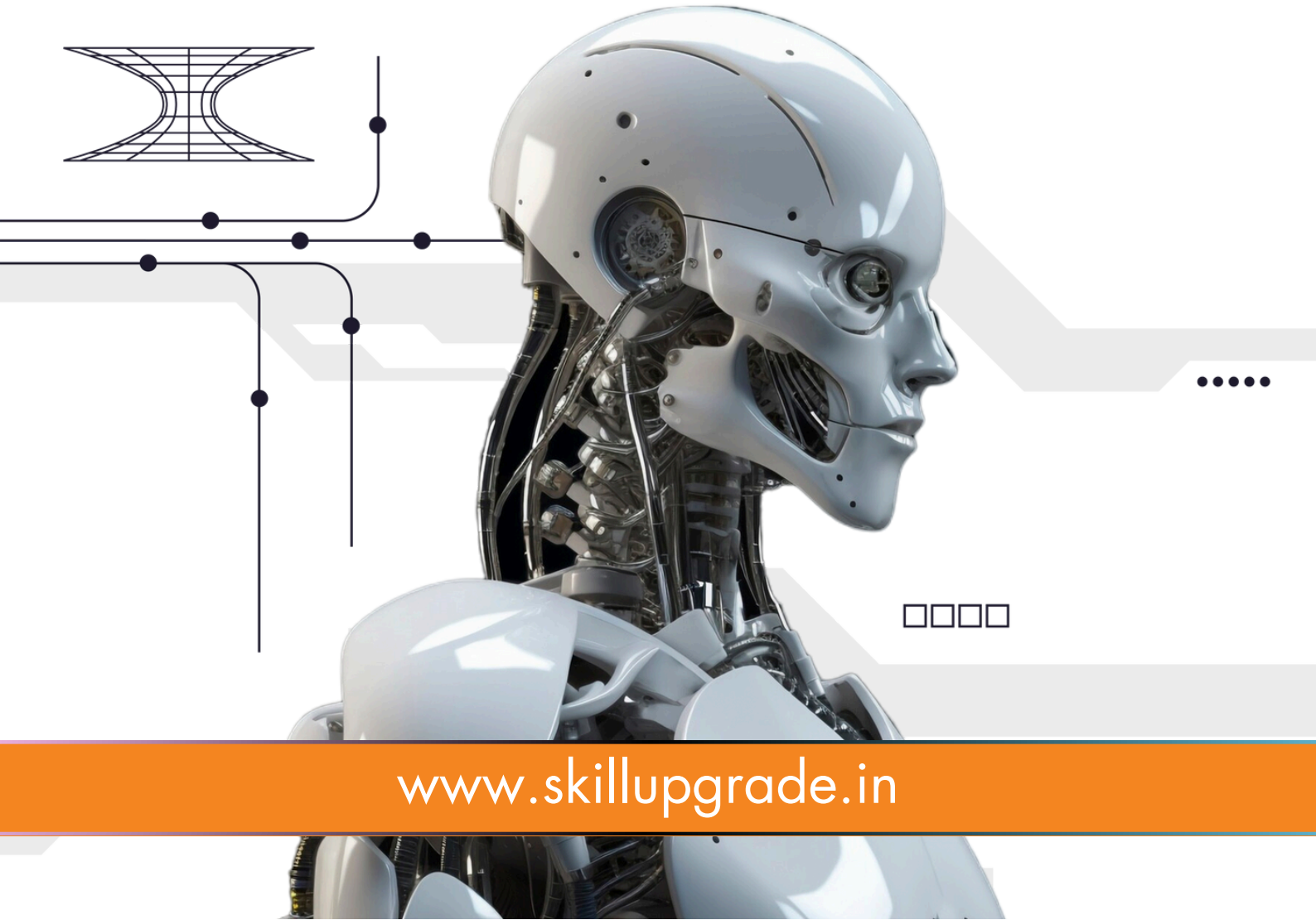
GENERATIVE AI, DEEP LEARNING & NEURAL NETWORKS COURSE

60 DAYS PRACTICAL COURSE IN JAIPUR



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Course Overview

Build Intelligent AI Systems with the Power of Deep Learning & Generative Models

This **60-day certification course by SkillUpgrades** is built for learners who want to go beyond basic AI. You'll get in-depth training in **deep learning architectures, neural networks, transformer models, and generative AI** tools like ChatGPT, DALL·E, GANs, and more.

The course focuses on Python-based implementation using **TensorFlow, Keras, and PyTorch**, and helps you build and train your own AI models for image generation, language processing, prediction systems, and automation tasks.

What You'll Learn

- Fundamentals of graphic and visual communication
- Designing logos, brochures, posters, and social media creatives
- Working with Adobe Photoshop, Illustrator, InDesign & Canva
- Branding, typography, layout, and color theory
- Principles of UI/UX, design thinking, and wireframing
- Building user journeys, personas, and flowchartApplications of AI in content creation, automation, and visual design
- Capstone project building and deployment tips

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- Implementing deep learning models with TensorFlow & PyTorch
- Training generative models using real datasets
- ChatGPT, DALL·E, Stable Diffusion & Midjourney: practical prompting

Who Should Enroll

- Computer science & engineering students
- AI & ML enthusiasts ready to level up
- Developers transitioning to AI-focused roles
- Entrepreneurs building AI-driven products
- Professionals preparing for data science/ML job roles

Requirements

- Good understanding of Python programming
- Familiarity with basic ML concepts
- Laptop with at least 8GB RAM (16GB recommended)
- Internet access & basic Jupyter Notebook usage

Course Modules – Generative AI, Deep Learning & Neural Networks (60 Days)

Module 1: Foundations of Neural Networks & Deep Learning

- Neurons, layers, weights, activation functions
- Forward and backward propagation
- Introduction to TensorFlow and Keras
- Gradient descent and loss functions

Module 2: CNNs for Vision-Based AI

- Convolutional layers, pooling, and feature extraction
- Image classification & object detection
- Building CNNs in TensorFlow
- Project: Build an image classifier

Module 4: Generative Adversarial Networks (GANs)

- Understanding how GANs work: Generator vs Discriminator
- StyleGAN and image synthesis
- Text-to-image concepts using latent space
- Project: Generate synthetic images using GANs

Module 5: Transformers & Large Language Models

- The Transformer architecture explained
- BERT vs GPT models
- Using pre-trained LLMs via Hugging Face
- Prompting techniques with ChatGPT and Claude
- Text summarization, classification & QA bots

Module 5: UI Design with Figma & Adobe XD

- Figma for web and app UI
- Components, auto-layouts, design systems
- Interactive prototypes and micro-interactions
- Adobe XD for real-time design and testing
- Mobile-first and responsive layouts

Module 6: Capstone Project & Portfolio

- Choose one: NLP chatbot, AI image generator, LLM-based assistant
- Model training, tuning, and evaluation
- Deployment tips (Flask + Streamlit or Google Colab share)
- Portfolio building and GitHub publishing

Course Highlights

- Hands-on coding and AI model building
- Use TensorFlow, Keras, and PyTorch
- Work on real projects and AI-driven solutions
- 60 days of structured, guided learning
- Certification of Completion
- Portfolio-ready project + career mentorship

Thank You

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