

Generative AI Certification Training Program | Duration: 1 Month

Week 1: Introduction to Generative AI & Its Foundations

- Understanding AI & Machine Learning
- Basics of AI, Machine Learning, and Deep Learning
- How AI mimics human intelligence
- The evolution of Generative AI
- Generative AI Fundamentals
- What is Generative AI? How does it work?
- Overview of models like GPT, DALL-E, and Stable Diffusion
- Applications of Generative AI in different industries
- Hands-on: Exploring AI Models
- Experimenting with AI-generated text (ChatGPT)
- Generating AI-based images using DALL-E

Week 2: Text Generation & NLP with AI

- Natural Language Processing (NLP) Basics
- Understanding NLP and its role in AI-generated content
- How AI processes human language
- AI-Powered Content Creation
- AI in blogging, storytelling, and marketing content
- Ethical considerations of AI-generated text
- Hands-on: Working with AI Writing Tools
- Using AI tools like ChatGPT for content generation
- Fine-tuning AI-generated text for quality improvement

Week 3: AI in Various Industries

- AI in Business & Marketing
- AI-driven customer insights and personalization
- AI in advertising and automated content generation
- AI in Finance
- Fraud detection with AI
- Algorithmic trading and financial forecasting
- AI in Education & E-Learning
- AI-powered tutoring and personalized learning experiences
- Automated grading and feedback systems
- Hands-on: Industry-Specific AI Applications
- Implementing AI-based solutions in different sectors

Week 4: Future of Generative AI & Career Opportunities

- AI in Business & Industry Trendsz How AI is revolutionizing business and automation
- Job roles in AI & how to build a career in AI
- Challenges & Ethical Considerations in AI
- Bias in AI models
- Ethical concerns in AI-generated content
- Hands-on: Final Project & Certification
- Capstone project: Creating an AI-generated blog, artwork, or video
- Evaluation & feedback session
- Certification of Completion

Enroll Now!

Unlock the power of Generative AI and take your skills to the next level!
Join TP Digital Technologies's short-term AI certification program
and gain hands-on experience!

Generative AI Certification Training Program | Duration: 2 Months

Week 1: Introduction to Generative AI & Its Applications

- Understanding AI & Machine Learning
- Overview of AI, Machine Learning (ML), and Deep Learning
- Difference between Traditional AI and Generative AI
- Generative AI Models & Evolution
- What is Generative AI?
- Introduction to GPT, DALL-E, Stable Diffusion, and other models
- Use cases of Generative AI in real-world applications
- Hands-on: Exploring AI-Generated Content
- Experimenting with AI-generated text (ChatGPT)
- Image creation using AI models

Week 2: Fundamentals of NLP & AI-Powered Text Generation

- Basics of Natural Language Processing (NLP)
- How AI understands and processes human language
- Key NLP techniques used in Generative AI
- AI-Powered Content Creation & Automation
- How AI generates blogs, articles, and marketing content
- Ethical challenges of AI-generated content
- Hands-on: AI-Powered Writing & Content Creation
- Using AI tools for text generation
- Fine-tuning AI-generated content for better accuracy

Week 3: AI in Various Industries

- AI in Business & Marketing
- AI-driven customer insights and personalization
- AI in Finance
- Algorithmic trading, fraud detection, and risk analysis
- AI in Education & Research
- AI-powered personalized learning & automated grading
- Hands-on: Industry-Specific AI Applications
- Implementing AI-based solutions for different industries

Week 4: AI for Image & Video Generation

- AI-Generated Visual Content
- How AI creates images, videos, and animations
- Introduction to tools like DALL-E, Runway ML, and DeepDream
- Deepfakes & Ethical Considerations
- Understanding AI-generated deepfakes and their impact
- Preventing misinformation and ethical guidelines
- Hands-on: Creating AI-Generated Art & Videos
- Using AI models for generating art and videos
- Practical exercises in AI-powered image and video editing

Week 5: Generative AI in Coding & Automation

- AI-Powered Code Generation
- Understanding AI-based coding assistants like GitHub Copilot
- How AI generates and auto-corrects code
- Automating Repetitive Tasks with AI
- AI in software testing, debugging, and automation
- Hands-on: Using AI to Write Code
- Experimenting with AI-driven coding tools

Week 6: AI in Music & Audio Generation

- AI-Generated Music & Speech Synthesis
- Understanding AI's role in composing music
- Introduction to AI-generated voiceovers
- AI in Podcasting & Audio Production
- Using AI for audio editing and enhancement
- Hands-on: Creating AI-Powered Music & Voice Clips
- Using AI tools like Jukebox & ElevenLabs

Week 7: AI in Business & Future Trends

- AI for Startups & Entrepreneurship
- How businesses use AI for marketing, automation, and analytics
- Future of AI & Job Opportunities
- Career paths in AI & emerging job roles
- Hands-on: AI-Powered Business Strategy
- Developing AI-driven business models

Week 8: Final Project & Certification

- Building an AI-Powered Product
- Capstone project: AI-generated blog, artwork, music, or video
- Evaluation & Certification
- Live demo and feedback session
- Certification of completion

Enroll Now!

Master Generative AI in just 2 months with hands-on training!
Join TP Digital Technologies and explore AI-driven innovation!

Generative AI Certification Training Program | Duration: 3 Months

Week 1: Understanding AI & Machine Learning

- Introduction to Artificial Intelligence and its applications
- Difference between AI, Machine Learning (ML), and Deep Learning
- Understanding Supervised, Unsupervised, and Reinforcement Learning
- Hands-on: Exploring AI models through interactive tools

Week 2: Generative AI – Concepts & Evolution

- What is Generative AI? How it differs from traditional AI
- Evolution of Generative AI: From rule-based systems to deep learning models
- Introduction to Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs)
- Hands-on: Experimenting with AI-generated images

Week 3: Natural Language Processing (NLP) & Text Generation

- Basics of NLP: Tokenization, Word Embeddings, Transformers
- How AI generates human-like text: GPT models and LLMs
- Real-world applications: AI-generated content, chatbots, summarization tools
- Hands-on: Creating AI-generated stories using NLP models

Week 4: AI Ethics, Bias & Responsible AI

- Ethical concerns in AI: Bias, misinformation, and privacy
- How AI impacts decision-making in businesses and industries
- Principles of Responsible AI: Transparency, Fairness, and Accountability
- Hands-on: Analyzing AI-generated content for bias and ethical concerns

Week 5: Image & Video Generation with AI

- Understanding AI-generated images & deepfake technology
- Overview of models like DALL-E, Stable Diffusion, and Midjourney
- AI-powered video generation & its applications in media
- Hands-on: Generating images using AI tools

Week 6: AI in Creativity – Art, Music, and Design

- How AI is revolutionizing creative fields
- AI-generated music: Composing with AI tools like Jukebox & Magenta
- AI in graphic design and digital art creation
- Hands-on: Creating AI-generated music and digital artwork

Week 7: AI-Powered Chatbots & Virtual Assistants

- How AI chatbots like ChatGPT work
- Applications in customer service, education, and automation
- Building a simple AI chatbot using OpenAI's GPT API
- Hands-on: Developing and deploying a custom AI chatbot

Week 8: AI for Business & Productivity Enhancement

- How businesses leverage AI for automation & decision-making
- AI in marketing, content creation, and customer engagement
- Future of AI in corporate workflows and productivity tools
- Hands-on: Exploring AI-powered business applications

Week 9: Finance & Cybersecurity

- AI in fraud detection and risk assessment in finance
- AI in cybersecurity: Threat detection and prevention
- Hands-on: Analyzing AI applications in real-world industries

Week 10: Generative AI in Coding & Automation

- How AI assists developers: Code generation tools like GitHub Copilot
- Automating repetitive programming tasks using AI
- Hands-on: Using AI to generate and optimize code snippets

Week 11: Building an AI-Powered Project

- Identifying a real-world problem & designing an AI solution
- Working with APIs & deploying AI models
- Developing a final AI project showcasing generative AI skills
- Hands-on: End-to-end project development with AI

Week 12: Future Trends, Certifications & Career Pathways

- The future of Generative AI & emerging AI trends
- AI career opportunities and skill-building strategies
- AI certifications and industry-recognized credentials
- Final Project Showcase & Certification Award

Key Takeaways from This Program:

- Gain hands-on experience with Generative AI tools and models
- Develop AI-powered projects and creative applications
- Learn AI ethics and responsible AI implementation
- Earn an industry-recognized AI certification
- Prepare for AI-driven careers in business, technology, and creative industries

Enroll Now in TP Digital Technologies's Generative AI Certification Program!

Join TP Digital Technologies and explore the limitless possibilities of Generative AI. Whether you're a student or a professional, this program will help you master AI-driven innovation and future-proof your career.

Limited Seats Available! Register now and start your AI journey today!