

LEARN FROM THE WORLD'S BEST PRACTITIONERS

6-MONTH

GENERATIVE AI FOR WORKING PROFESSIONALS CERTIFICATE PROGRAM

Learn **50+ AI tools**, create AI-powered apps without coding, and gain job-ready skills!





















Rankings and Recognition of IIT Patna







#1 in India Today's MDRA Ranking 2024*



#21 National Institutional Ranking Framework



#106 in Brics QS University Rankings



#117 in Times Higher Education Young University Rankings

Director's Message

Dear Future Innovators.

Welcome to the Professional Certificate Program in Generative AI for Working Professionals at the IIT Patna—a program meticulously crafted to equip both technical and non-technical professionals with the skills and expertise to excel in today's AI-driven landscape.

In alignment with PM Narendra Modi's vision, India is committed to the responsible and ethical use of Al. Our program embodies this commitment, ensuring that the transformative power of GenAl is harnessed ethically and inclusively.

This program empowers you to not only understand the potential of Generative Al but to harness it for real-world impact — whether you are a tech expert aiming to advance your skill set or a non-tech professional looking to enhance decision-making and innovation in your field.

You will learn from world-class mentors delivering live lectures from global Al giants such as Google, Microsoft, and OpenAl, who bring unmatched insights and practical experience to help you apply Al in your career. You will gain hands-on exposure through live projects, case studies, and collaborative learning designed to make Al actionable and relevant to your professional journey.

Here's why this program is for every working professional:

- For non-tech professionals: You'll learn how to optimize workflows, boost productivity, and make informed strategic decisions using Al.
- For tech professionals: You'll master advanced Generative AI techniques to create groundbreaking solutions and accelerate your expertise.

Generative AI is democratizing innovation, making it possible for anyone with the right knowledge to build impactful products and lead in their domain. By joining this program, you're taking a bold step toward becoming AI-powered—ready to stand out, lead, and drive meaningful change in your career and industry.

I invite you to immerse yourself in this journey—ask questions, collaborate with your peers, and leverage the expertise of our distinguished faculty. Let's unlock the limitless potential of Generative AI and shape the future together.

Welcome aboard! Your journey to transformation starts now.

Warm regards,

Prof. T.N Singh

Director, Indian Institute of Technology Patna

Why Learn Generative AI with us?



Leverage the IIT Patna Edge

Get certified in Al by one of India's leading tech institutions.



Master Generative Al Tools

Build expertise in GPT, GANs, and more with real-world applications.



Al Project Portfolio:

Create industry-ready projects to showcase your skills with an edge of GenAl everywhere.



Career Support:

Get guidance on resumes, LinkedIn, and job opportunities in an AI first world.



Leadership Skills:

Learn to lead AI initiatives and stay ahead in the tech landscape.



Perfect for Techies & Non-Techies:

GenAl is for everyone and that's how we have designed the curriculum as well.



Completely Application Based:

Every module is followed up by a practical project which you can implement and learn faster.

Curriculum vetted by Mentors working at leading Al companies like









CISCO.

Deloitte.



& many more..

Learn from people who are building the future of GenAl



Natasha Ahmed



Shyamal Anadkat \$\infty\$ OpenAl



Gyanendra Google



Aakash



Babith
Microsoft



Muthu
ORACLE



Ravi Prakash Ex:Morgan Stanley



Soumalya Seal ✓cleartrip



Karan Rana **\$\$ SWIGGY**

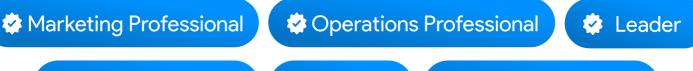
About Generative AI **

Generative AI is a branch of Artificial Intelligence that creates text, images, music, and more by learning patterns from existing data. Its ability to generate original content has made it increasingly popular across various fields.

Why take GenAl seriously?

Artificial Intelligence (AI) is significantly affecting the job market, with estimates suggesting that up to 300 million full-time jobs could be displaced globally by 2030, according to a report by Goldman Sachs.

Who is this program for?



- Data Professional Designer Coder / Developer
 - Business Owner Product Manager

Professional Certificate in Generative Al for Professionals

Duration: 6 months (online, part-time)

Objective:

Upon completion, participants will be able to:

- Master Generative AI fundamentals and applications
- ✓ Build Al-powered solutions with minimal coding
- Implement automation systems using AI
- Create and manage Al agents
- Develop industry-specific Al applications
- Monetize AI skills professionally

No Coding Experience Required:

Build an app by the end of the program using AI (Capstone Project)

Note: There will be some places where you'll require some level of coding, that will also be taught and covered in the program by the faculty.







Complete List of Al Tools Covered











































MODULE 1

Fundamentals of Generative Al and LLMs (4 Weeks)

Topics:

- Evolution and fundamentals of AI/ML
- ✓ Large Language Models architecture
- Prompt engineering and optimization
- LLM applications and use cases

Essential Tools:

- ChatGPT (Prompt engineering)
- Claude (Analysis and coding)
- Langchain (LLM framework)
- OpenAl Playground (API testing)

MODULE 2

Multi-Modal AI (3 Weeks)

Topics:

- Audio and speech processing
- Video generation and editing
- Multi-modal integration

Essential Tools:

- Midjourney (Image generation)
- DALL-E 3 (Image creation)

MODULE 3

Al Automation and Productivity (4 Weeks)

Topics:

- Personal task automation
- Business process automation
- Content automation
- Workflow optimization

Essential Tools:

- ☑ Zapier (Workflow automation)
- ✓ Make.com (Complex automation)
- Beautiful.ai (Presentations)
- ☑ TextCortex (Content automation)

MODULE 4

Al Agents Implementation (3 Weeks)

Topics:

- Al agent fundamentals
- Agent development
- Future trends

Essential Tools:

- AutoGPT (Agent development)
- LangChain (Framework)
- SuperAGI (Infrastructure)
- Chipp.ai (Marketplace)

MODULE 5

Al App Building (4 Weeks)

Topics:

- App planning and architecture
- Frontend development with Al
- Backend integration
- Deployment and scaling

Essential Tools:

- Streamlit (App development)
- Bubble.io (No-code)
- Retool (Internal tools)

MODULE 6

Domain Applications & Career (4 Weeks)

Key Industry Applications:

- 1. Marketing & Sales
- © Campaign automation
- © Customer analytics
- Content creation
- Lead generation
- 2. Finance & Banking
- Risk assessment

- Automated reporting

- 3. Healthcare
- Patient care automation
- Administrative tasks
- Medical analysis
- Research assistance
- 4. Education
- Content generation
- Student support
- Assessment automation
- Learning analytics

- 5. Manufacturing
- Production planning
- Quality control
- Supply chain optimization
- Predictive maintenance

Capstone Project (2 Weeks)

Students can demonstrate the competencies developed in the program by working on (a) A Capstone Project, or (b) A Set of Learn by Doing Assignments. A Capstone Project is the culmination of the learnings by applying what has been learned in a single development effort. The choice of Capstone Project or a Set of Learn by Doing Assignments is provided to the students to enable and empower a set of students who may want to strengthen their competencies through a series of mini-projects (the Learn by Doing Assignments). The amount of effort that either options will require would be the same. While Capstone Project focuses on one single development effort, the Set of Learn by Doing Assignments focuses on several mini-projects.

Project Options:

- 1. Al-Powered Business Solution
- Customer Service Automation Suite

- 2. Multi-Modal Content Creation Suite
- Social Media Content Generator
- E-commerce Product Content Creator
- Educational Content Generator
- 3. Al Agent Ecosystem
- Personal Productivity Assistant
- Market Research Assistant
- Content Marketing Ecosystem
- 4. Industry-Specific Application
- Healthcare Patient Management
- Real Estate Deal Analyzer
- Legal Document Assistant

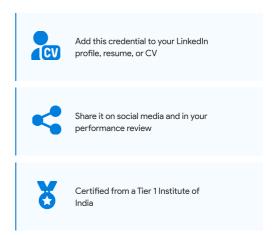
Assessment

- Weekly guizzes (60%)
- Capstone project and Set of Learn by Doing Assignments evaluation (40%, tailored for heterogeneous learners with differentiated rubrics)

Note: Tool access and features may vary based on provider policies and availability. The program continuously updates tool recommendations based on industry developments.



(**Disclaimer:** The above certificate is only for refrence purposes, the actual certificate of IIT Patna may differ.)



Program Fees:

₹67,560

Apply for the Program

EMI OPTIONS AVAILABLE
(LIMITED SEATS PROVIDED BY IIT-PATNA)

Our refund policy:

80% BACK BEFORE ONE DAY OF INSTRUCTION.
NIL ON/AFTER THE FIRST DAY OF INSTRUCTION.

Pre-requisites:

10+2, willingness to learn, and the drive to stay relevant in the AI era.



Still got questions or doubts?

Please reach out to us at support@iitpatna.co and the team will contact you back.

Apply Now

