

MasterTrack for **Managers & Leaders**



GenAI and Agentic AI Master Certification for **Senior Managers & Leaders**

In collaboration with : **IBM**

Integrated with:  LangChain  ChatGPT **Agentic AI**

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Program **Summary**



Program Eligibility

Working professionals having **4+ years of exp.**



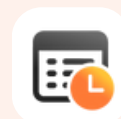
Training Mode

100% Live Online Sessions with **Live Projects**



Program Faculty

Seasoned Industry Experts & Mentors



Program Duration

4 Months Program with live project



Payment Options

No cost EMI, Interest free loan



Certification

Earn an IBM-verified Certification in **Generative AI**

Exclusive

Real Project Experience For Managers

Lead a Team

Learn how to integrate GenAI into business

Practical Skills

Gain hands-on experience in handling GenAI Project.

Project Life Cycle

Learn to oversee the entire project.

Industry Knowledge

Develop expertise in your specific domain.

About Course

This program is for **tech managers and tech leaders** with **4+ years of experience** who want to harness the power of Generative AI for strategic innovation. It uses a **project-based approach**, with guidance from industry experts and personalized mentoring.

The course also covers **Large Language Models, OpenAI APIs, LangChain, and RAG** for business solutions. By the end, you'll be equipped to drive AI-driven projects, enhance decision-making, and lead innovation in your organization.

Our **Commitment**

Equip tech managers and senior leaders to understand and **lead Generative AI projects**, covering essential concepts, practical applications, and tools for strategic decision-making.

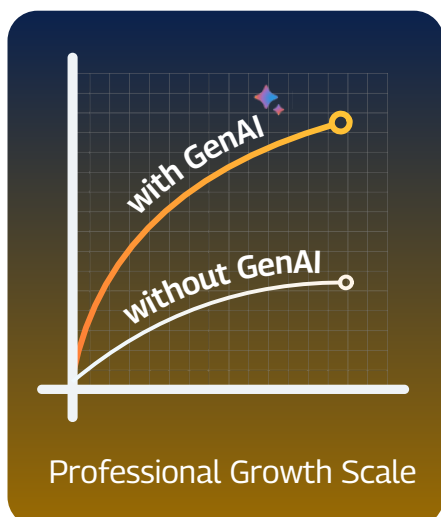
Furthermore, our comprehensive career support services include **interview preparation, resume building, and job placement assistance**, all designed to help you smoothly transition into leadership roles in AI and Machine Learning.

 **100%**
Assured Interview

 **350+**
Hiring Partners

 **7+**
Centers Across India

 **40k+**
Professionals Upskilled



70%

of companies are likely to adopt GenAI in next 5 years, to

- enhance efficiency,
- automating tasks,
- improving decision-making for better project outcomes.


***By integrating GenAI into our program**, we ensure that our learners are well-prepared to lead and innovate in their respective fields.



Who is this Certification for?

A unique certification for
Managers and Leaders!

 www.learnbay.co

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Mid to Senior Level Professionals with **4+ Years of Experience**

This certification is perfect for Project managers, Technical Leaders, Team leads preferably from tech domains.



Project Manager



Team Lead (IT/Non-IT)

Course Prerequisites: You should have knowledge of Python, Machine Learning, and basic Deep Learning. If **you don't have these skills**, you can first complete our foundation program before joining this course.

Program Outcome: What's in it for you?



Master GenAI For Business Transformation

Learn to harness cutting-edge **GenAI tools** to solve real-world challenges and lead your organization into the future



Real-World GenAI Project Portfolio

Work on live projects like chatbot creation, **workflow automation**, and RAG-powered assistants to showcase your expertise.



Accelerate Your Career Growth

Leverage advance GenAI knowledge to drive business success, enhancing career prospects and **salary growth**.

Why choose Learnbay?

For GenAI Program for **Tech Managers**



Industry-Backed Certification

Stand out with a prestigious certification from **IBM**

Get Certified
from



Project-Based Learning

Gain hands-on experience with **real-world GenAI projects**, preparing you to tackle industry challenges confidently.

Real Projects | Real Experience



Learn from GenAI Industry Mentors

Gain insights from top industry experts in Generative AI. Our mentors bring **real-world experience** to help you master advance skills.



Personalized Support

Get tailored guidance with 1:1 doubt-clearing sessions for a deeper understanding.

Alumni Spotlight



Shravanthi A
Data Scientist

Learnbay has helped me a lot to learn data science applications in the e-commerce industry. The live class concept was really helpful in receiving proper DS training. Thanks to all my mentors and the placement team.

**Mechanical
Domain**



Data Scientist @



 **230%**
Salary Hike



Preksha Mishra
Lead Data Scientist

The course structure is excellent with emphasis on concept building and tools & software at the same time. The support team is excellent and supportive and quite agile to respond to doubts.

**Telecom
Domain**



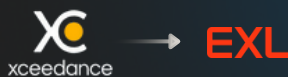
Data Scientist @



 **140%**
Salary Hike



Karan Chawala



Data Scientist



Jaya Sinha



Senior Analyst



Shubham Dev



Lead Data Analyst

Alumni Spotlight



Mohd. Israr
Data Scientist

Thanks to the Learnbay data science course & excellent guidance, I was able to ace the TCS interview and secure a job with a 210% pay raise. The real-world time projects helped me develop my concepts as a data scientist.

**Mechanical
Domain**



Data Scientist @



 **230%**
Salary Hike



Saurabh Kumar
Data Scientist

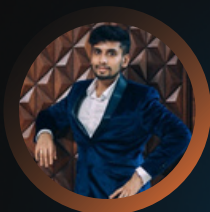
When I joined Learnbay I did not have any knowledge apart from the very basics. I gradually build my concept via various trainers and get trained in data science with strong knowledge/concepts.

**Mathematics
Professor**




Data Scientist @  **Teleperformance**

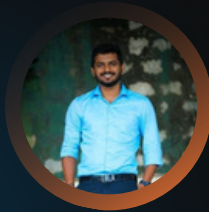
 **135%**
Salary Hike



Aravind

 TheMathCompany → **CATERPILLAR**

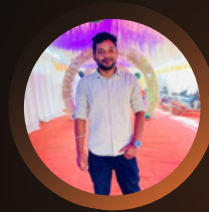
Data Scientist



Ritesh Kumar

 unacademy → **Capgemini**

Senior Analyst



Ramki

 cognizant → **ANBSYSTEMS**
a DNY company

Data Analyst

Get Certified and accelerate your career growth

Generative AI Certification



Certification from IBM in **Generative AI**

- ✓ **Real-World GenAI Projects:** Hands-on exposure to industry-relevant projects using IBM Watsonx and leading Generative AI tools.
- ✓ **Expert-Led Training:** Interactive live sessions led by seasoned industry professionals from IBM's Developer Skills Network.

Program Fees

Live online classes

- ✓ Live online interactive sessions
- ✓ 1:1 online Doubt Session with experts
- ✓ Virtual Mock interviews
- ✓ Online Capstone projects

Program Fee

₹ 95,000/- +18% GST

EMI starts at

₹ 7,916/-

Payment Plan:


No Cost EMI Available
For 6, 9 and 12 Months



Cerification Curriculum

A unique certification for
Managers and Leaders!

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GenAI Foundation Prep Module (Optional)

Duration: 36 Hours

This preparatory module is designed for **learners new to Python programming and Machine Learning (ML)**. It provides foundational knowledge essential for **mastering advanced Generative AI topics**.

Who should attend?

- Non-programmers transitioning into Generative AI.
- Professionals aiming to refresh Python and ML basics.

Note: This **fast-track module** is recommended primarily for professionals with a **tech** or **programming background**. Non-tech professionals are advised to join detailed foundational sessions from our data science programs.

Python Programming

We will learn basic Python programming and essential tools like **NumPy, Pandas, and Matplotlib**.

This Python module will be **fast-tracked**. If you are a non-programmer, you can attend our detailed Python for Data Science modules.

Duration - 15-18 hrs

Chapter 1: Core Python

- Installation, Jupyter notebook basics, variables, data types
- Conditionals, loops, functions, basic data structures

Chapter 2: Python Libraries

- NumPy fundamentals: arrays, operations
- Pandas basics: DataFrames, Series, data manipulation
- Matplotlib: basic data visualization

Machine Learning Fundamentals

We will cover the **fundamentals** of **Machine Learning**, exploring various **ML techniques** including **supervised** and **unsupervised** learning methods.

Duration - 10-12 hrs

Chapter 1: ML Basics

- Introduction, types of machine learning
- ML workflow: Data exploration, preparation, model building

Chapter 2: Supervised Learning

- Linear regression, logistic regression, decision trees
- Model evaluation: accuracy, confusion matrix, cross-validation

Chapter 3: Unsupervised Learning

- K-means clustering, hierarchical clustering
- PCA for dimensionality reduction

Deep Learning Basics

This module introduces fundamental concepts of Deep Learning, essential neural network architectures, and frameworks.

Duration - 10 hrs

Chapter 1: Deep Learning Foundations

- Neural Networks and Activation Functions
- Training Neural Networks: Backpropagation, Gradient Descent

Chapter 2: Practical Deep Learning

- Introduction to frameworks (TensorFlow, PyTorch)
- Hands-on: Image classification project

TERM 1

GenAI for Business Transformation

Duration: 40 Hours

Outcome of this term: You'll gain hands-on experience in leveraging GenAI tools to optimize workflows, enhance customer experiences, and **drive data-driven business** strategies.

Module 1: Fundamentals of Generative AI for Leaders

- **Topics:** Overview of generative models and differences from traditional AI, real-world applications of **GenAI in business**, impact on business strategy.
- **Hands-on Case Study:** Analyzing successful GenAI applications in industry (e.g., customer service automation, content generation).

Module 2: Industry-Specific Use Cases of GenAI

Topics: Applications across industries:

- **Finance:** Fraud detection, automated reporting, investment insights.
- **Healthcare:** Drug discovery, medical imaging, patient personalization.
- **Retail/E-commerce:** Inventory management, recommendation engines.
- **Manufacturing:** Predictive maintenance, quality control.
- **Hands-on Exercise:** Develop a strategy proposal for implementing GenAI in a chosen domain (e.g., customer support chatbot for retail).

Module 3: AI-Driven Decision Making

- This module examines how **AI can augment decision-making processes** in organizations.
- It covers data-driven decision-making, predictive analytics, and the integration of AI insights into business strategies.
- **Strategic Implementation of GenAI in Business.**

Module 4: Workflow Automation using GenAI

- Overview of GenAI in workflow automation.
- **Set up a Zapier** account and link it with Generative AI tools.
- **Hands-on** with Zapier to integrate GenAI into workflows.
- Compare automation tools with GenAI features and use cases.

Module 5: GenAI in Sales and Marketing

- Overview of GenAI applications in sales and marketing.
- Personalized content creation.
- **Lead scoring** and qualification.
- Customer segmentation.
- Automated email responses.
- **Predictive analytics** for customer behavior
- **Hands-on project**: Build a GenAI-driven campaign for targeted marketing.

Module 6: GenAI Tools & Applications for Software Development

- Overview of GenAI tools for code autocompletion, **language conversion**, code quality review, and automated testing.
- **Applications**: Code autocompletion, code refactoring and optimization, code translation, **code quality review**, automated testing.

Module 7: GenAI in Customer Services and Operations

- Overview of GenAI applications in customer service and operations.
- Automated chatbots for customer support, **Personalized response generation**, Predictive maintenance in operations.
- Workflow automation, Customer feedback analysis.
- **Hands-on project**: Design a GenAI-powered customer support assistant for quick query resolution

Module 8: GenAI in Data Analytics

- Overview of GenAI in data analytics.
- Data cleaning and preprocessing, Automated data insights, Predictive analytics.
- **GenAI integration with Sheets and Excel for data analysis.**
- **Hands-on project:** Build a GenAI-powered dashboard for business insights.

TERM 2

Advance GenAI For Tech Managers

Duration: 60 Hours

Outcome of this term: This term provides a foundational understanding of deep learning and large language models while emphasizing ethical AI practices and business integration.

Module 1: Deep Learning Essentials for GenAI

- Topics: **High-level understanding of neural networks**, backpropagation.
- Popular frameworks (TensorFlow, PyTorch) in the context of GenAI.
- **Hands-on Exercise:** Build an end-to-end process diagram for deploying a deep learning-based GenAI solution within an organization.

Module 2: Prompt Engineering for Managers

- Topics: Fundamentals of crafting effective prompts, strategies for optimizing AI responses.
- **Prompt templates** for different business use cases, basics of prompt chaining.
- **Hands-on Exercise:** Design and test prompts for a customer FAQ assistant or internal knowledge base tool.

Module 3: Transformers and Large Language Models (LLMs)

- **Topics:** Introduction to transformers, attention mechanisms.
- Overview of LLMs (**GPT-3, ChatGPT, LLaMA**), business applications of LLMs.
- **Hands-on Project:** Customize prompts for a conversational AI model tailored to a company's customer service requirements.

Module 4: Integration of OpenAI APIs

- **Topics:** Overview of OpenAI API capabilities.
- Data handling best practices, rate limits, **error handling**, compliance, and data privacy.
- **Hands-on Project:** Develop a high-level prototype for a web application using OpenAI API for content generation based on user inputs.

Module 5: Building Applications with LangChain for Business Use

- **Topics:** **LangChain's** utility for workflow automation, sequential, memory, and conditional chains for **task-based** applications.
- **Hands-on Project:** Build a workflow prototype for automated report generation using LangChain.

Module 6: Retrieval- Augmented Generation Fundamentals (RAG)

- **Topics:** Basics of RAG, combining generative and retrieval techniques for enhanced information recall.
- **Use cases for RAG in business.**
- **Hands-on Project:** Implement a RAG-based assistant to answer questions from an internal company FAQ or policy document dataset.

Module 7: Introduction to Agentic AI

- Understanding Agentic AI and **Autonomous Agents**
- Core principles of agentic systems (Autonomy, Goal-oriented behavior, Decision-making)
- **Use cases in business and technology**

Module 8: Key Components of Agentic AI

- Task Management and Automation
- Planning, Execution, and Optimization
- **Decision-making** frameworks
- Practical demonstration using **LangChain**

Module 9: Essential Tools for Agentic AI

- **LangChain**: Introduction and hands-on exercises
- **AutoGPT**: Setup and practical application
- **BabyAGI**: Basic usage and task automation
- **CrewAI**: Introduction and practical demonstrations

Module 10: Agentic AI Integration

- Integrating agents with **OpenAI** APIs
- Building custom agents for specific tasks
- **Hands-on session** with OpenAI's GPT models

Real-world Projects

- **Project 1**: Build an autonomous assistant to automate content generation and social media posting using AutoGPT and LangChain.
- **Project 2**: Develop an intelligent customer support agent that autonomously handles FAQs and escalates complex queries using BabyAGI and GPT API.
- **Project 3**: Create collaborative workflows and team-based tasks automation using CrewAI.

Module 11:

Overview of Model Deployment and Scalability

- **Topics:** Overview of model deployment techniques, best practices for production environments.
- **API setup**, scaling and monitoring model performance.
- **Hands-on Project:** Create a deployment strategy for a customer service chatbot, including model hosting, load balancing, and monitoring requirements.

Module 12:

Ethical Considerations in AI for Leadership

- **Topics:** Discussion on ethical AI practices, **bias detection** and mitigation, privacy concerns, responsible **AI usage**.
- Implications for leadership decisions.
- **Hands-on Case Study:** Conduct a risk assessment for an AI initiative to evaluate potential ethical challenges and suggest mitigation strategies.

Executive-level real-time **Industrial Projects (Electives)**

#1



Sales Forecasting Using Generative AI

20 hours

- **Objective:** Develop a generative AI-based sales forecasting model tailored for decision-making in retail or FMCG domains.
- **Outcome:** Learners will create predictive sales reports and simulate scenarios for strategic planning.

#2



Employee Engagement Chatbot

20 hours

- **Objective:** Build a conversational AI chatbot that provides personalized employee feedback, wellness suggestions, and engagement insights.
- **Outcome:** Managers will learn to enhance HR processes using AI-driven solutions

#3



Strategic Decision Automation for Supply Chain

20 hours

- **Objective:** Create an AI system that generates actionable insights and strategies for inventory optimization and logistics planning.
- **Outcome:** Learn to automate decision-making processes, ensuring cost efficiency and reduced lead times.

#4



AI-Powered Personalized Marketing Campaigns

20 hours

- **Objective:** Design a GenAI tool to create personalized ad campaigns and content suggestions
- **Outcome:** Learn how to leverage AI to boost ROI through targeted and data-driven marketing strategies.

Note: Pick any two

Thank you!

For more queries and information
please reach out to us at:

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Visit us at

www.learnbay.co

