



भारतीय प्रबंध संस्थान कोषिकोड
Indian Institute of Management Kozhikode
Globalizing Indian Thought



Professional Certificate Programme in Data Science & AI for Business

7 Months | Online + Live Masterclasses



Integrated with GenAI
& Agentic AI



#3

NIRF India Ranking
2025, Management

#4

In India, #76 Global Rank,
Financial Times Open
Enrolment Rankings 2025



Data Science, GenAI &
Agentic AI-One
Integrated Programme

Programme Summary

Data Science & AI for Business

 Institute Name Indian Institute of Management Kozhikode	 Programme Duration 28 Weeks	 Cost INR 1,89,000+GST/ AED 8,416
 Learning Mode Online + Live masterclasses	 Weekly Effort 4-5 hours per week	 Campus Networking event: 1-day optional on-campus networking event*
 Future-Ready Curriculum Integrated coverage of Data Science, AI, Machine Learning, Generative AI and Agentic AI	 Eligibility Minimum Bachelors Degree or Diploma Holder (10+2+3)	 Certificate IIM Kozhikode will award a certificate of completion to participants who successfully complete the programme and achieve a minimum score of 70%.
 Pedagogy: Online, Pre-recorded lectures, weekly live doubt-clearing session with industry experts	 Faculty Learn from IIM Kozhikode faculty through pre-recorded lectures and industry experts through live masterclasses.	

Learning Experience

- **Pre-recorded Videos** - Flexibility to learn at your own pace, around your busy schedule
- **World-class Faculty** - Learn from the best faculty and industry practitioners
- **1-Day Campus Networking:** Applied learning experience and networking at IIMK campus
- **Real-World Business Applications:** Explore Data Science and AI applications across industries and business functions.
- **Comprehensive Curriculum:** Data Science, AI, ML, Generative AI & Agentic AI in One Programme
- **On-demand Learning** - Re-watch any lesson/ concept for deeper understanding

Frequently Asked Questions

Are there any LIVE sessions with the institute faculty in this programme?

This course is designed to give flexible learning, given time constraints of working professionals and contains high-quality pre-recorded videos with the globally renowned faculty from IIMK. No LIVE sessions will be taken by IIMK faculty.

What is the role of the Programme Leader? Are they institute faculty?

Programme leaders are Industry Practitioners/ Subject Matter Experts who help with doubt clearing, cover specific topics deeper and share real-world examples wherever needed. They are not faculty of the institute.

Who grades/ gives inputs on the assignments and projects?

Assignments are graded either by programme leaders who are available to support participants in their learning journey and/or by the Emeritus grading team.

Is there a qualifying mark/ grade to get the final certification in this course?

Yes, a minimum score of 70% in all required assignments to successfully complete the programme and receive a digital certificate of completion.

What if I miss the assignments for a particular week? Can I attempt them later?

It is upon the faculty's discretion if any re-attempt of the quiz or assignment would be allowed and the evaluation methodology.

Who is the faculty for the LIVE Masterclass/ Online sessions/ Doubt Clearing sessions?

Live masterclasses and live doubt-clearing sessions are conducted by industry experts.

Is there an opportunity to visit the IIM Kozhikode campus?

Participants can opt for a one-day on-campus networking event* at IIM Kozhikode at an additional cost. The optional on-campus networking event is a one-day programme that allows learners to connect with peers from different cohorts at the IIMK Campus. The fee for this event is INR 13,000 per day as the optional in-campus fee for twin-sharing mode of accommodation and Rs. 15,000 per day for single accommodation.

What if I don't find the programme appropriate for me after starting the sessions? Can I seek a refund?

We encourage our learners to complete the programme to fully understand the concepts and derive valuable learning outcomes. Should you still feel the need to stop your learning journey, a refund request can be initiated before the programme commencement. However, after the programme commences, fee becomes non-refundable.

What type of certificate will I receive?

Upon successful completion of the programme, you will receive a smart digital certificate. The smart digital certificate can be shared with friends, family, schools, or potential employers. You can use it on your cover letter, resume, and/or display it on your LinkedIn profile. The digital certificate will be sent approximately two weeks after the programme, once grading is complete.

How long will I have access to the learning materials?

You will have access to the online learning platform and all the videos and programme materials for 12 months following the programme end date. Access to the learning platform is restricted to registered participants per the terms of agreement.

The IIM Kozhikode Advantage

From the Director's Desk

Businesses today have seen a complete transition than they used to run a decade ago. Recent industry reports suggest that close to 68% of business leaders in India have reported that having high agility reduced their costs by 25%. It is thus imperative for business leaders of today and the future to expand their knowledge across domains and proactively make decisions to be effective leaders. IIM Kozhikode programmes designed by world-class faculty with their cutting-edge thought leadership and industry-leading insights empower participants to manage and lead complex business challenges with confidence and data-driven, informed decision-making ability. Our growing global footprints acknowledged and accredited by leading institutions of the world are a testimony to growth we have achieved in our 28-year journey of academic excellence.

At this juncture, it is also pertinent to share that both future and past are integral to the path taken by an institution on this journey of excellence. Having a wide, far-seeing vision is not an indulgence but an activity that is necessary to give meaning to our present, to give this Institution a sense of purpose, direction and imagination. That is why we have chosen to think in terms of what IIM Kozhikode will be able to contribute to India and the world some three decades from now with 'Vision 2047: Globalizing Indian Thought'. The Institute has set for itself a pre-eminent role with the above motto. The sheer scale, scope and potential impact that India will have on 21st century business makes us believe that this is a legitimate aspiration.

IIM Kozhikode's Data Science and Artificial Intelligence (DSAI) Programme offers learning through recorded online sessions taught by renowned faculty available in the comfort of your home. This programme is designed to help tech professionals, business heads, consultants, and entrepreneurs looking to lead end-to-end DS and AI projects and solve complex business problems. The meticulously curated industry-leading modules will enable participants to advance their knowledge to make better strategic business decisions.

Invest in your potential and start your journey of future-proofing your data science career by enrolling in the IIM Kozhikode's DSAI Programme.

Wishing you all the very best!



Prof. Debashis Chatterjee
Director, Indian Institute of Management Kozhikode

Debashis Chatterjee

Go Deeper Across the Data & AI Landscape



The global AI market in 2021 was nearly US\$ 59.67 billion and it is projected to grow at a CAGR of 39.4% to reach US\$ 422.37 billion by 2028.

Source: <https://www.ibef.org/research/case-study/future-of-data-science-and-ai-in-india>

Data, analytics, and AI are rapidly redefining how organisations compete, make decisions, redesign operations, and create value. As Generative AI and Agentic AI move deeper into business workflows, professionals must build integrated capabilities to keep pace, identify emerging opportunities, and apply these technologies across functions and enterprise priorities.

The **Professional Certificate Programme in Data Science & AI for Business** from **IIM Kozhikode** offers integrated learning across Data Science, business analytics, Machine Learning, Generative AI, and Agentic AI. The curriculum builds depth in Data Science and analytics through business-focused dashboards, forecasting, and model evaluation, while extending into enterprise GenAI solutions, Agentic AI systems and workflows, and cross-industry applications.

Going beyond individual technology concepts, the programme connects Data Science and AI with business decisions, workflows, applications, and enterprise adoption. Participants will explore AI-first business models, enterprise AI platforms, operating models, organisational adoption, governance, risk, and responsible AI.

Through industry-focused use cases, live industry expert masterclasses, hands-on projects, and a Strategy & Integration Capstone, participants will develop the capabilities to translate Data and AI concepts into practical applications for decision-making, productivity, innovation, and business transformation.

Comprehensive Coverage
from Data Science to
Agentic AI



Business-Focused
Analytics, Forecasting &
Model Evaluation



AI Applications Across
Industries & Business
Functions



Enterprise AI Integration,
Governance & Responsible
Adoption



Programme Highlights

Data Science, AI, ML,
Generative AI & Agentic AI in
One Programme



Business Analytics,
Forecasting & AI/ML Model
Evaluation



Pre-recorded Modules by IIM
Kozhikode Faculty & Live
Industry Expert Masterclasses



Hands-on Analytics, GenAI
& Agentic AI Mini Projects



Earn the Prestigious IIM
Kozhikode Certificate of
Completion



Exposure to 15+ Leading
Data, AI & Automation
Tools



AI Applications Across Banking,
Healthcare, HR, Marketing, CX
& Product



Optional On-Campus
Networking Experience at
IIM Kozhikode*



Note:

- This is a self-paced online programme. Thus, faculty will not be a part of weekly live sessions or any other live interaction in this programme. We have a curated panel of eminent industry practitioners who will be conducting the weekly live doubt-clearing sessions.
- The optional on-campus networking event is a one-day programme that allows learners to connect with peers from different cohorts at the IIMK Campus. The fee for this event is INR 13,000 per day as the optional in-campus fee for twin-sharing mode of accommodation and Rs. 15,000 per day for single accommodation (or equivalent amount in the applicable currency at the time of payment) plus applicable taxes, if any.



Who Is This Programme For?



Mid-to-Senior-Level Managers

Senior Managers, Project Managers, Programme Managers, Delivery Managers, Team Leads, and Business Managers

Seeking to apply Data Science, AI, and Machine Learning to solve complex business problems, improve decision-making, and drive high-impact initiatives.



Data, AI & Analytics Professionals

Data Scientists, AI/ML Professionals, Data and Business Analysts, Analytics Managers, Business Intelligence Professionals, AI and Automation Leads

Looking to connect Data Science and AI capabilities with business priorities and translate insights into enterprise value.



Technology, Functional & Transformation Professionals

IT Managers, Technology Leads, Digital Transformation Managers, Automation Leaders, Product Managers and professionals across Ops, Marketing, Finance, HR, CX, and Strategy

Looking to connect Data and AI capabilities with functional priorities, redesign workflows, and support enterprise implementation.



Business Leaders, Consultants & Entrepreneurs

VPs, Directors, General Managers, Business Unit Heads, Founders, Business Owners, Management Consultants, and Strategy Consultants

Aiming to evaluate AI opportunities, lead transformation, advise organisations, or create AI-enabled products, services, and business models.

Programme Directors



Prof. M. P. Sebastian

Professor of Information Systems, IIMK

Professor Sebastian received both his masters degree and PhD from the Indian Institute of Science, Bangalore. His research interests include artificial intelligence, machine learning, cybersecurity, healthcare ICT etc. He has guided many PhD candidates and has published research papers in journals such as Information System Frontiers, Information and Computer Security, Health Policy and Technology, Computers and Electrical Engineering, Knowledge and Information Systems, among others.



Prof. Vidushi Pandey

Associate Professor Information Systems, IIMK

Prof. Vidushi Pandey holds a Ph.D. in Information Systems and specializes in Social Media, Data Analytics, and Digital Business. With a decade of experience as a researcher and faculty, Prof. Pandey has contributed to numerous esteemed international journals, including Information Systems Frontiers, Information Technology for People, Information Development, and Information Technology for Development. Her teaching case has been published by Ivey Publications and is also featured by Harvard Publishing. Prof. Pandey has a robust track record of delivering a wide range of courses, encompassing full-time and executive formats for postgraduate, doctoral, and executive MBA programs at IIM Kozhikode. Additionally, she is actively involved in developing and conducting Management Development Programs tailored to various industry sectors, utilizing both offline and online delivery methods.

Note:

- Programme Directors might change due to unavoidable circumstances, and revised details will be shared closer to the programme start date.
- Industry Expert sessions could be scheduled in a different time zone, depending on speaker availability



Programme Modules

Pillar 1: Introduction



Module 1: Foundation: Data Science & AI Overview

- Programme overview, structure, and deliverables
- Role of Data Science & AI in modern organisations
- Evolution of analytics → ML → AI in business contexts
- Conceptual refresher on mathematical intuition (data, uncertainty, optimisation, non-formulaic)
- Overview of the modern DS & AI tool landscape (Python, analytics stacks, cloud platforms, conceptual)

Pillar 2: Data Science



Module 2: Introduction to Data Analytics & Data-Driven Decision Making

- Data-Driven Decision Making
- Types of analytics: descriptive, diagnostic, predictive, prescriptive
- Business problems vs analytical problems
- Data Types and Their Comparison
- Data Categories
- Data Cycle
- Analytical Thinking Models



Module 3: Data Cleaning, Preparation & Quality Management

- Understanding Data
- Types of Attributes
- Data Sources and Data Quality
- Data Cleaning
- Identifying Outliers
- Measures of Centre and Spread
- Data Exploration: Hypothesis Testing Vs. Exploratory Data Analysis
- Data Transformation
- Data Scaling
- Data Transformation for Normality



Module 4: Exploratory Data Analysis & Data Visualization

- What is Data Visualisation and Why is it Important?
- Design Principles: Pre-attentive Attributes
- Tidy Data Principles
- Introduction to Basic and Advanced Charts
- 4C Principles
- Dashboard Design
- Exploratory Vs. Explanatory Dashboards
- Colour Theory
- The Use of Colour in Data Visualisation
- Colour Vision Deficiency
- Creating a Colour Palette



Module 5: Dashboards, Metrics & Performance Analytics

- KPIs, metrics, and OKRs
- Designing dashboards for different stakeholders
- Operational vs strategic dashboards
- Interpreting dashboards for decision-making
- Common pitfalls in dashboard-driven management



Module 6: Statistical, Predictive and Prescriptive Analytics for Managers

- Statistical intuition: variability, correlation vs causation
- Confidence, uncertainty, and risk interpretation
- Introduction to predictive analytics and forecasting (non-technical)
- Use cases of predictive analytics in business
- Introduction to prescriptive analytics
- Use cases of prescriptive analytics

Pillar 3: AI/ML Concepts



Module 7: Introduction to Artificial Intelligence

- Basics of Artificial Intelligence
- Importance of AI
- Evolution of AI
- Classification of AI
- Generative AI
- Risks and Limitations of AI
- Transformation of Future Job Roles by AI



Module 8: Introduction to Machine Learning

- Machine Learning Concepts
- General Learning: Levels of Learning
- Machine Learning Approaches
- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning
- Deep Learning
- Deep Learning Approaches
- Machine Learning: A Holistic View
- Introduction to MLOps



Module 9: Supervised & Unsupervised Learning and Reinforcement Techniques for Managers

- Problem framing: prediction vs pattern-discovery
- Classification and regression models
- Model intuition (no math): simple intuition for how systems learn from past examples
- Success metric for the business goal (reducing losses, improving accuracy, improving customer experience)
- Recognising common pitfalls in data projects: biased data, misleading correlations, wrong signals, over-complex models
- Clustering for sense-making: segmentation (conceptual), business validation
- Real-world applications: customer segmentation, churn flags, fraud alerts, product grouping, early-warning systems
- Reinforcement learning
- Real-world applications of reinforcement learning



Module 10: Strategic Forecasting, AI/ML Model Evaluation for Business

- Understanding when “forecasting” matters: planning for demand, revenue cycles, staffing, inventory, and risk
- Recognising patterns in business data: trends, seasonal effects, sudden shifts
- Explainability (concepts): global vs local explanations; when/why explanations are necessary
- Evaluating AI/ML models using business-friendly metrics: linking model performance to ROI, customer outcomes, efficiency gain
- Operating norms: human oversight, override/escalation rules, accountability & audit trails

Pillar 4: GenAI Concepts



Module 11: Foundations of Language Models & Prompting

- Foundations of Natural Language Processing
- Tokens, tokenization, and embeddings: what they represent and why they matter
- Foundations of Large Language Models (LLMs): transformer intuition (non-technical)
- SLMs vs LLMs
- Prompting patterns: zero-shot, few-shot, role-based prompts, chain-of-thought (conceptual)
- Prompt hygiene and instruction quality for reliable outputs
- Context windows: limits, trade-offs, and design implications
- Cost drivers in GenAI systems: tokens, latency, caching considerations
- Strengths and limitations of LLMs in business contexts



Module 12: GenAI Solutions for the Enterprise

- Choosing the right approach for each use case
- Workflow design over model tuning: map the business process
- Business evaluation of GenAI pilots: define success in time saved, error reduction
- Trade-offs between open ecosystems (flexibility, cost, customization) and managed platforms (speed, security, support)
- Scale-up playbook: from pilot → playbook → SOP → training, performance dashboards for leaders

Pillar 5: Agentic AI Concepts



Module 13: Agentic AI Foundations, Planning & Tool Use

- Introduction to Agentic AI: why agents are different
- Task planning, decomposition, and goal-oriented reasoning (conceptual)
- Tool use in agents: functions, APIs, search, and external systems
- Orchestration frameworks: coordinating steps, tools, and decisions
- Memory types in agentic systems: short-term, long-term, and contextual memory



Module 14: Agentic Systems: Agentic AI & Emerging Platforms

- Emerging Agentic Platforms
- Single-agent vs multi-agent systems: patterns and trade-offs

- Open-Source vs Closed-Source AI Systems
- Agentic Analytics
- Agent Marketplaces & Plug-and-Play Workflows
- Business Process Re-Design with Agents
- Measuring Value & Impact of Agent Systems

Pillar 6: AI Applications Across Industries



Module 15: AI, GenAI & Agentic AI in Banking & Financial Services

- Credit scoring, fraud detection, AML, risk modelling (traditional AI/ML)
- GenAI for customer service, report generation, underwriting support
- Agentic AI for loan processing, dispute resolution, financial ops automation
- Regulatory constraints, explainability, model risk management
- Case studies: Retail banking, payments, NBFCs



Module 16: AI, GenAI & Agentic AI in Healthcare & Life Sciences

- Predictive analytics for diagnosis, patient risk stratification
- Computer vision in medical imaging (conceptual)
- GenAI for clinical documentation, research summarisation, patient engagement
- Agentic AI for care coordination, clinical workflow orchestration
- Data privacy, ethics, and regulatory considerations (HIPAA-like contexts)



Module 17: AI, GenAI & Agentic AI in Human Resources (HR)

- Talent acquisition & recruiting intelligence: AI-assisted screening, skills-based shortlisting, personalized outreach, bias-aware practices
- Workforce analytics & employee insights: attrition risk signals, engagement drivers, skills gap mapping, capacity planning for headcount & shifts
- GenAI for HR documentation & knowledge automation
- Agentic AI for HR workflows & employee services: onboarding assistants, HR helpdesk/benefits Q&A



Module 18: AI for Digital Marketing, Growth & Customer Experience

- Content automation
- Segmentation & targeting
- Campaign optimisation
- Attribution modeling
- Personalisation engines
- Generative brand assets



Module 19: AI for Product Management, Innovation & Tech Strategy

- AI-augmented product discovery
- Requirements generation
- Roadmap planning
- Experimentation frameworks
- User research automation
- PM copilots

Pillar 7: AI Business Transformation



Module 20: AI-First Business Models & Value Creation

- AI as a growth, efficiency, and innovation engine
- AI-first vs AI-enabled organizations
- Platform and ecosystem-based business models
- Data moats and network effects
- Mapping AI use cases to strategic objectives
- Case examples of AI-driven value creation



Module 21: AI Operating Models, Organization & Change

- Centralized CoE vs federated AI operating models
- Product-led AI vs project-based analytics
- Key AI roles: AI PM, Data Scientist, ML/AI Engineer, Business Translator
- Business-IT-AI collaboration models
- AI talent planning and capability roadmaps
- AI value measurement, adoption metrics, and ROI
- Change management and leadership communication



Module 22: Enterprise Data, AI Platforms & AI/Agentic Integration

- Modern enterprise data platforms and lakehouse concepts
- Data products, domain ownership, and data mesh principles
- Enterprise AI stacks incl. GenAI and RAG (conceptual)
- Embedding AI into enterprise workflows
- Batch vs real-time AI integration patterns
- Agentic AI Systems



Module 23: AI Governance, Risk, Policy & Responsible AI

- AI governance frameworks & oversight models
- Responsible AI: fairness, transparency, accountability, safety
- Regulatory landscapes (DPDP Act India, EU AI Act, managerial lens)
- Enterprise AI oversight: committees, review boards, risk processes
- GenAI-related risks: IP, data leakage, compliance
- Case studies on AI failures & governance best practices

Pillar 8: Mini Projects



Module 24: Hands-on Mini Projects

- **Mini Project 1:** Hands-on Analytics-Business Dashboard Challenge (Post Data Science Pillar)
- **Mini Project 2:** GenAI Workflow Automation & Agentic AI Prototype (Post GenAI + Agentic AI Pillars)

Pillar 9: Capstone



Module 25: Strategy & Integration Capstone

- Enterprise integration plan: value sizing, adoption roadmap, governance & controls, talent plan, communication pack for leadership

Note:

- Modules/ topics are indicative only, and the suggested time and sequence may be dropped/ modified/ adapted to fit the total programme hours.
- You will have access to the online learning platform, including all videos and programme materials, during the course and for one year after the programme end date. Access to the platform is restricted to registered participants, as per the terms of the agreement.



Explore Leading Data, AI & Automation Tools



Note:

- All product and company names mentioned in this material are trademarks or registered trademarks of their respective holders. Their use does not imply any affiliation with or endorsement by them.
- This session offers a tools overview only.
- The tools and platforms referenced are free versions intended solely for educational or illustrative purposes.
- The tools and platforms mentioned are subject to change and will be finalised prior to the start of the programme.
- Python & its libraries will be covered only from an applications perspective.
- Please note that the fee does not cover any payments required for certifications offered by the tools or tool subscriptions.
- There will be pre-recorded demo videos of Tableau fundamentals which are optional.

Apply Analytics, Generative AI & Agentic AI Through Projects and Capstone



Strategy & Integration Capstone

Develop an enterprise AI integration plan covering value sizing, adoption, governance, talent, and leadership communication.

Key Skills Applied

- AI opportunity evaluation and value sizing
- Enterprise AI adoption planning
- Governance and control design
- AI talent and capability planning
- Leadership communication

Hands-on Mini Projects



Mini Project 1: Analytics-Business Dashboard Challenge

Apply analytics, data visualisation, and performance metrics to develop a dashboard that supports business decision-making.

Key Skills Applied

- Data analysis and preparation
- Dashboard design and visualisation
- KPI and performance measurement
- Data-driven decision-making



Mini Project 2: GenAI Workflow Automation & Agentic AI Prototype

Apply Generative AI and Agentic AI concepts to design an AI-enabled workflow for a relevant business application.

Key Skills Applied

- GenAI workflow design
- Business process automation
- Agentic workflow prototyping
- AI tool and workflow integration
- Business application evaluation

Notes:

- The project mentioned are subject to change and will be finalised prior to the start of the programme

Live Industry Expert Masterclasses

Gain practical exposure to how data, analytics, AI, and Agentic AI are applied through industry tools, workflows, and business use cases.



Analytics to Impact: Real-World Decision-Making with Data

Turn raw data into insights that support better business decisions.

Inside the masterclass:

- Apply practical frameworks to analyse business data
- Translate raw data into actionable insights
- Connect analytical findings with business priorities
- Use data to support structured decision-making



Python Primer: Applied Python for Data & AI

Build foundational Python capabilities for data analysis and AI applications.

Inside the masterclass:

- Learn Python essentials and programming fundamentals
- Work with data using pandas and Polars
- Read and write data from files and SQL
- Interact with external data through basic APIs
- Apply clean-code and reproducibility principles
- Use notebooks effectively for analysis and sharing
- Explore virtual environments and dependency management
- Gain a conceptual introduction to PySpark



Data Visualisation with Power BI & Tableau

Build dashboards and visual stories that communicate business insights.

Inside the masterclass:

- Gain hands-on exposure to Power BI and Tableau
- Build dashboards using industry-standard tools
- Transform data into clear visual narratives
- Communicate insights for business decision-making

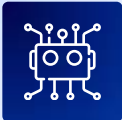


From Models to Production: The Enterprise AI Tool Clinic

Explore how machine learning models move from development to enterprise deployment.

Inside the masterclass:

- Understand the journey from ML models to production
- Explore the operationalisation of machine learning models
- Examine enterprise deployment considerations
- Gain exposure to enterprise-friendly, low-code tools
- Explore tools such as Orange and KNIME



Building AI Agents with LangChain, AutoGen & CrewAI

Explore AI-agent architecture and build functional agentic workflows.

Inside the masterclass:

- Explore the architecture of AI agents
- Understand the components of agentic workflows
- Gain exposure to modern agentic AI frameworks
- Work with LangChain, AutoGen, and CrewAI
- Build a functional agentic workflow

Notes: The masterclasses mentioned are subject to change and will be finalised prior to the start of the programme



Programme Certificate

IIM Kozhikode will award a certificate of successful completion to participants who complete the programme successfully with 70% of the score in the evaluation. A participant with less than 70% of the score in the overall evaluation will not be awarded any certificate.



Notes:

- Note: The certificate shown above is for illustrative purposes only and may not be an exact prototype of the actual certificate.
- IIM Kozhikode reserves the right to change the certificate and specifications without notice.

Learning Outcomes

The programme equips participants with an integrated, business-focused approach to Data Science and AI, enabling them to turn data into insights, assess high-impact opportunities, apply AI across business functions, and support responsible enterprise adoption. Through this learning journey, participants will develop the following capabilities:



Develop data-driven decision-making capabilities using analytics, dashboards, KPIs, forecasting, and business intelligence frameworks.



Evaluate and apply Data Science, AI, Machine Learning, Generative AI, and Agentic AI use cases across business functions and industries.



Assess AI initiatives through a business lens, considering value potential, performance metrics, operational feasibility, and organisational priorities.



Apply analytics and AI frameworks through applied projects and a strategy-focused capstone to address real-world business challenges.



Identify, prioritise, and scale AI opportunities aligned with organisational strategy and business objectives.



Lead AI-enabled business transformation initiatives while addressing adoption, governance, risk, change management, and responsible AI considerations.

Testimonials

“The module is well thought out for people from various fields who want to learn and explore this emerging subject. This program will help anyone easily grasp the concepts and move forward.”

Sagnik Karmakar

AVP (Application Support Sr. Analyst)
Citi India

“The best part is the overall perspective of AI/ML and where we are heading. The discussion on future prospects was very insightful. I would also like to appreciate the professors, as they are excellent in supporting and explaining queries.”

Rajneesh Srivastava

Solution Architect
Ericsson

“The best part of this program was the quality and organization of the course materials, which were comprehensive and well-structured, making it easier to understand complex topics. Additionally, the expertise and passion of the instructors greatly enhanced the learning experience. Their deep knowledge and enthusiasm for technology were inspiring and motivating. Furthermore, the support team was highly attentive and always ready to assist, providing a seamless and supportive learning environment.”

Vijayagopal S

Senior Technical Architect
Ospyn Technologies Ltd.

Testimonials

“I am profoundly grateful to IIM Kozhikode, a prestigious institution, for the transformative learning experience in the Professional Certificate Programme in Data Science and Artificial Intelligence. The meticulously structured curriculum, combined with the unparalleled expertise and dedication of the esteemed faculty, provided profound insights into data science and AI. Their ability to distill complex concepts with clarity, reinforced by hands-on projects, made the learning journey both intellectually stimulating and highly impactful. This certification has significantly honed my analytical and technical acumen, equipping me with practical skills for real-world applications. I deeply appreciate the institute’s unwavering commitment to academic excellence and its invaluable role in shaping future leaders in this ever-evolving domain.

Thank you for this remarkable opportunity!”

Sumedha Arya

Associate Director
EssenceMediacom, Group M, WPP



Learning Journey



Orientation Week

The first week is orientation week. During this week you will be introduced to the other participants in the class from across the world and you will learn how to use the learning management system and other learning tools provided.

Weekly Goals

On other weeks, you have learning goals set for the week. The goals would include completing the assignments*, which have weekly deadlines.

Flexible and Convenient Online Learning

Learn online via recorded videos from top IIM Kozhikode faculty in a high-impact 32-week journey with a learning commitment of 5-6 hours/week. Faculty will not be a part of weekly live sessions or any other live interaction in this programme.

Debrief Sessions

The Emeritus Programme Leaders will be available for live online sessions every week or every alternate week to help you clarify your doubts pertaining to the programme content.

Timely Follow up and Learning Support

The Emeritus Programme Support team will follow up over emails and phone calls with learners who are unable to submit their assignments on time.

Programme Details

Starting Date:	December 22, 2026
Programme Fee:	INR 1,89,000 + GST / AED 8,416
Eligibility:	Minimum Graduate or Diploma Holder (10+2+3)
Programme Format:	Online via Recorded Video Lectures
Admission Criteria:	Open Enrolments
Application Requirements:	Your Graduation/Degree: You can submit a scanned copy of ANY ONE of: Degree certificate, provisional Degree certificate, marks transcript or score transcript.

Note:

- *GST (currently @ 18%) or applicable taxes will be charged extra on these components.
- *Instalment payment options available.
- *Additional convenience charges will be applicable on instalment payments.
- *For detailed information on instalment payments reach out to your programme advisor.

Programme Application Link

[Click here](#) to apply to the programme.

Finance options available. [Click here](#) to learn more.

For more information, please email at iimk.execed@emeritus.org.

Note:

- Admissions are on a first-come, first-serve basis
- The optional on-campus networking event is a one-day programme that allows learners to connect with peers from different cohorts at the IIMK Campus. The fee for this event is INR 13,000 per day as the optional in-campus fee for twin-sharing mode of accommodation and Rs. 15,000 per day for single accommodation (or equivalent amount in the applicable currency at the time of payment) plus applicable taxes, if any.

About IIM Kozhikode

#3

**NIRF India Ranking 2025,
Management Category**

Established in 1996, with its first Post Graduate Programme (PGP 01) officially initiated in 1997, the Indian Institute of Management Kozhikode (IIMK) is on a high-growth trajectory today, offering a wide range of academic programmes in the field of management education. These include the Fellow Programme in Management, Executive PG Programmes, Management Development Programmes, and Faculty Development Programmes. In 2013, IIMK set up a satellite campus at Infopark, Kochi, dedicated to Executive Education. The institute also has the unique distinction of launching a PhD (Practice Track) programme for working professionals, besides introducing dynamic programmes such as the one-year Post Graduate Programme in Business Leadership (2019), MBA in Finance, and MBA in Liberal Studies & Management (2020). IIMK is also home to IIMK LIVE – a first-of-its-kind start-up incubation programme, the Indian Business Museum and seven Centres of Excellence. IIM Kozhikode has retained its 3rd position in the NIRF India Rankings 2025 (Management) — marking the third successive year among India's Top 3.

The institute also features regularly among top global institutions for its flagship MBA (PGP) and EMBA (EPGP) in the QS World University Rankings. IIMK has leapfrogged 100 spots to secure a place in the Top 151–200 Institutes in Business & Management Studies globally, as per the QS World University Rankings by Subject 2024. In a remarkable boost to IIM Kozhikode's global credentials, newly launched programmes like PGP-BL (2019) and PGP-Fin (2020) have also entered the Top 151+ programmes worldwide in their respective QS Rankings. IIM Kozhikode is globally accredited by EQUIS (EFMD) and AMBA (UK).

IIM Kozhikode made its debut in the prestigious Financial Times Rankings in 2023 and was recently ranked #76 globally in the Financial Times Open-Enrolment Executive Education Rankings 2025. The feat has further consolidated the 30-year's IIM's footing in an exclusive list of the foremost providers of executive education in the world. The institute has also consistently featured among the Top 70 MBA programmes globally in the Financial Times Masters in Management (MiM) Rankings for its flagship PGP. Over the past two decades, IIM Kozhikode has successfully delivered close to 1,450 MDP programmes, training more than 55,000 participants from 200+ organisations, including several Fortune 500 companies.



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