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

Professional Certificate Programme in Data Science and Artificial Intelligence for Managers

Starts December 30, 2024 | 32 weeks | Online via pre recorded videos

AI Now integrated with
Generative AI

#4 #70 Global Rank | #4 India, Financial Times Open Enrolment Rankings 2024

#3 NIRF India Ranking 2024, Management

Programme Summary

Professional Certificate Programme in Data Science and Artificial Intelligence for Managers

Institute Name
IIM Kozhikode

Programme Duration
32 weeks

Cost
INR 1,60,000 + GST

Learning Mode
Online - Pre-recorded videos, 1 weekly doubt-clearing session with programme leader

Weekly effort
5-6 hours per week

Faculty
IIM Kozhikode

Payment Options
Basic Instalment Plans

Special Pricing
Special pricing up to 10% discount is available for corporate plans

Guest Faculty/ Industry Experts
Mid-Senior Industry Practitioners

Programme/ Course Leaders
Subject Matter Experts/ Mid-Senior Industry Practitioners

Eligibility
Minimum Graduate or Diploma Holder (10+2+3)

Certificate
Upon successful completion of the programme, participants will be awarded a verified digital certificate from IIM Kozhikode

Learning Experience

- **Pre-recorded videos - Flexibilty -** Learn at your own pace, around your busy schedule
- **World-class faculty** - Learn from the Best faculty and industry practiners

- **High quality Videos -** Great learning experience, even while on-the-move
- **Cohort-based learning -** Networking & Community Interaction by using discussion boards

- **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 course?
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?
The assignment grading frameworks are created in collaboration with the institute faculty and Emeritus grading team.

Is there a qualifying mark/ grade to get the final certification in this course?
Yes, the qualifying mark is 70%.

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 would be allowed of the quiz or assignment and the evaluation methodology.

Who is the faculty for the LIVE Masterclass/ Online sessions/ Doubt Clearing sessions?
Doubt-clearing sessions are carried out by the Programme Leaders, as they monitor individual student progress.

Are Tools covered in this course taught by institute faculty? Are licenses for these tools included in the course fee
We cover the concepts of the tools using pre-recorded demos and Industry expert sessions. These tools are not taught by faculty and are optional to learn in the course. Participants are expected to have their own licenses to these tools for practice, and are not offered with the course.

Will Emeritus/ Institute help with placement services?
This course is designed with some of the best faculty and to cover relevant topics in a manner that creates positive career outcomes. Over 87% Emeritus learners have witnessed career growth post completing their course. As an additional service, we provide job placement assistance, resume writing guidance, navigating job search and interview prep along with this course. All this guidance is provided over recorded videos, this is not live.

What if I don't find the course 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.

Note: This Course Summary is provided only for your convenience. You are advised to refer to the Course Brochure for more information.

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

Programme Overview

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 Science, Machine Learning and Artificial Intelligence hold tremendous analytical power to glean insights, extract patterns, and make predictions. As one of the world's fastest growing economies, India has a considerable stake in the data science and emerging technology revolution. Unsurprisingly, these reigning, all-pervasive technologies have conquered every industry. The Data Science and Artificial Intelligence Programme offered by the Indian Institute of Management Kozhikode (IIM Kozhikode) is a comprehensive and cutting-edge program designed to equip professionals and aspiring data scientists with the skills and knowledge required to excel in the rapidly evolving fields of data science and artificial intelligence (AI). The programme is tailored to meet the growing demand for data-driven decision-making in various industries and organisations.

Grasp the role of DS, ML & AI in creating business excellence

Understand how to analyse ubiquitous data for making data-driven business decisions in real-time
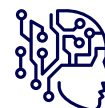
Delve into Generative AI and its applications across industries to be future ready

Starts on
Dec 30, 2024*

Duration
32 weeks

Programme fee
INR 1,60,000 + GST
(Exclusive of Application Fee)

Format
Online via pre recorded

* Begins with introduction to platform

Programme Highlights

28+ Hours of Recorded Videos
15 Assignments
5 Quizzes

Hands On Experience with
10+ Industry Tools

10 Hours of Generative AI content and Doubt Clearing Sessions

4 Industry backed Capstone Projects

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.

Who is this Programme for?

- Mid to Senior-level managers looking to effectively lead end-to-end DS, ML & AI projects and solve complex business problems.

- Consultants looking to build their DS, ML & AI expertise for better client management.

- Entrepreneurs and Small Business Owners who are looking to restructure their business strategy by incorporating DS, ML & AI into their products/applications

Lead your organisation into the future of Data Science and Artificial Intelligence.

The market for AI is expected to reach **US$ 7.8 billion by 2025** in India. According to the State of the Education report (SOER) 2022, AI will grow at a rate of **20.2% compound annual growth rate (CAGR).**

Experts have predicted that, **by 2030, there will be a 31.4% increase in jobs** related to data science and mathematical science, mostly AI-based.

Based on the analysis, it has been estimated that there is a **51% gap between the demand and supply** of AI/ML BDA tech talent in India, taking into account the current talent base of approximately **420,000 professionals**.

Programme Director

M.P. Sebastian, PhD

Professor,
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

Assistant 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 program me start date.
-Industry Expert sessions could be scheduled in a different time zone, depending on speaker availability

Programme Modules

Module 1:	Data Science and AI in today's World

Module 2:	Data Cleaning and Preparation

Module 3:	Data Modelling

Module 4:	Introduction to Data Analytics

Module 5:	Data Visualization

Module 6:	Data Analytics Capstone Project

Module 7:	Introduction to Artificial Intelligence

Module 8:	Introduction to Machine Learning

Module 9:	Supervised Learning Techniques

Module 10:	Regression and Classification Techniques

Module 11:	Advanced Classification and Regression Techniques

Module 12:	Time Series Analysis

Note:
- Modules/ topics are indicative only, and the suggested time and sequence may be dropped/ modified/ adapted to fit the total programme hours.
- Recordings from live sessions will be available to the participants till two weeks after the live session is conducted, based on the discretion of the Programme Directors/Faculty.

Programme Modules

Module 13:	**Unsupervised Learning Techniques**
Module 14:	**Capstone Project on Machine Learning**
Module 15:	**Neural Networks and Deep Learning**
Module 16:	**Reinforcement Learning**
Module 17:	**NLP and Text Analytics**
Module 18:	**Recommender Systems**
Module 19:	**Gen AI Models**
Module 20:	**Working with Gen AI Models**
Module 21:	**Responsible AI & Ethical considerations**
Module 22:	**Gen AI in Digital Marketing**
Module 23:	**Gen AI in Product Management**
Module 24:	**Gen AI in Leadership**

Note:
- Modules/ topics are indicative only, and the suggested time and sequence may be dropped/ modified/ adapted to fit the total programme hours.
- Recordings from live sessions will be available to the participants till two weeks after the live session is conducted, based on the discretion of the Programme Directors/Faculty.

Programme Modules

Module 25:	Gen AI in Finance

Module 26:	Gen AI in Supply Chain Management

Module 27:	Capstone Project on Gen AI

Module 28:	Integration of AI into Existing Systems

Module 29:	Impact of Gen AI on Leadership, Management and Industry

Module 30:	AI-led Culture, Governance and Compliance

Module 31:	AI Strategy

Module 32:	Capstone Project on AI Strategy

Note:
- Modules/ topics are indicative only, and the suggested time and sequence may be dropped/ modified/ adapted to fit the total programme hours.
- Recordings from live sessions will be available to the participants till two weeks after the live session is conducted, based on the discretion of the Programme Directors/Faculty.

Tools

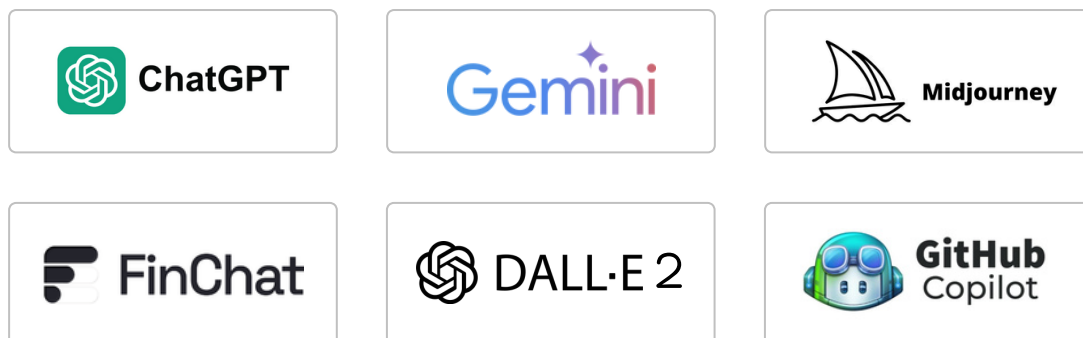|				
python	SciPy	NumPy	matplotlib	<∅> No-code/Low-code
scikit learn	pandas	seaborn	plotly	tableau

Generative AI Tools

Modules on Generative AI

Generative AI Tools

Masterclass

The programme includes industry backed hands-on learning on the Generative AI tools.

ChatGPT	Gemini	Midjourney
FinChat	DALL·E 2	GitHub Copilot

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 program is a low code / no code program. 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.

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.

No: xxxxxxxxx/##1

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Indian Institute of Management Kozhikode

eMDP
Professional Certificate Programme

This is to certify that

Name of participant

participated and successfully completed the programme
Professional Certificate Programme in Data Science and Artificial Intelligence for Managers
(Start Date - End Date)

Programme Facilitators   Chairperson - MDP   Director

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

Learn how to implement data science, machine learning and artificial intelligence techniques and devise cutting-edge solutions to real-life problems within your organisation

Develop a comprehensive understanding of DS and AI concepts and identify the best models to fit various business situations

Interact and collaborate with industry experts to understand the technical and business applications of Machine Learning and Generative AI

Gain hands-on learning in identifying, defining, designing, implementing and monitoring DS and AI projects

Learning Journey

Orientation Week
The first week is orientation week. During this week you will be introduced to the other participants taking part in the programme. 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

Programme Start Date	December 30, 2024
Programme Fee	INR 1, 60,000 + GST

Note:
*GST (currently @ 18%) 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.

Eligibility

- Minimum Graduate or Diploma Holder (10+2+3)

Admission Criteria

- Open Enrolments

Programme Format

- Online via Recorded Video Lectures

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.

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.

About IIM Kozhikode

Started in 1997 with its Post Graduate Programme (PGP), 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 Programs. IIMK set up a Satellite campus at Info park, Kochi, in 2013 dedicated to Executive Education. IIMK has also the unique distinction of launching a PhD (Practice Track) programme for working professionals besides bringing in new dynamic programmes such as the one-year Post Graduate programme in Business Leadership (2019) MBA in Finance and MBA in Liberal Studies & Management (2020). The institute is also home to IIMK LIVE a first-of-its-kind start-up incubation programme and the Indian Business Museum.

IIMK is ranked 3rd as per NIRF India Rankings 2024: Management. The institute also features regularly among top global institutes for its flagship MBA (PGP) and EMBA programme (EPGP) in the QS World University Rankings. The institute has leapfrogged 100 spots to be placed in the Top 151-200 Institutes in Business & Management Studies globally, as per the QS World University Rankings by Subject 2024. IIM Kozhikode is also globally accredited by EQUIS (EFMD) and AMBA (UK) and is on the verge of a triple-accreditation crown.

IIM Kozhikode also made its debut in the prestigious Financial Times Rankings in 2023 and was recently ranked #70 among the top-80 open-enrolment executive program providers globally for the year 2024. The feat has further consolidated the 28- year's IIM's footing in an exclusive list of the foremost providers of executive education in the world. The institute had also entered in global top-100 at Rank #77 for FT Masters in Management (MIM) 2023 Rankings, for its full time MBA programme. IIM Kozhikode has successfully delivered close to 1300 MDP programmes over the past two decades, training more than 41,000 participants from 150+ organisations, which also includes several Fortune 500 companies in the process.

| #4 | #70 Global Rank \| #4 India, Financial Times Open Enrolment Rankings 2024 | #3 | NIRF India Ranking 2024, Management | #2 | Public B-Schools, The Week - Hansa Research Survey 2023 |

About Emeritus

Emeritus is committed to teaching the skills of the future by making high-quality education accessible and affordable to individuals, organizations, and governments worldwide. It does this by collaborating with more than 80 top-tier universities across the United States, Europe, Latin America, Southeast Asia, India, and China. Emeritus' short courses, degree programs, professional certificates, and senior executive programs help individuals learn new skills and transform their lives, companies, and organizations. Its unique model of state-of-the-art technology; curriculum innovation; and hands-on instruction from senior faculty, mentors, and coaches has educated more than 350,000 individuals across 80+ countries.

Lead into the future of Data Science & AI

Apply for the programme here

APPLY NOW

Refer your colleague and earn benefits

REFER NOW

Finance options available

KNOW MORE

WhatsApp an advisor on +91 86570 38243*

*This number does not accept any calls. Please message your queries.

For registration and any other information, please get in touch with us at **iimk.execed@emeritus.org**

In collaboration with

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