

ADVANCED DATA SCIENCE FOR MANAGERS

STARTS DECEMBER 30, 2021 | EARN EXECUTIVE ALUMNI STATUS

1 YEAR | LIVE ONLINE SESSIONS

Overview

In today's dynamic business landscape, the ability to drive corporate strategy and business decisions through data-driven insights leads to market leadership and gives organisations a competitive edge. Increasingly, the integration of data science and analytics is proving to be a game-changer for businesses across industries. Organisations are seeking to gain revenue-generating insights from data and build future strategies for business growth.

IIM Kozhikode's Advanced Data Science for Managers provides insights on data management, exploratory data analysis, and the use of machine learning algorithms. Along with a strategic and managerial understanding, the programme will help professionals enhance their proficiency in data science and gain in-depth skills and robust knowledge of machine learning algorithms and techniques supported by R and Python.

Since most of the data available today is in an unstructured format, joining this year-long programme will train professionals in techniques such as text mining and social media analytics that are vital for maximising business growth and transformation. Additionally, this programme's effective pedagogy and focus on real-world examples, case studies, and practical sessions will assist in identifying data insights and making high-output business decisions. On completing this programme, you will receive a certificate of completion and will be eligible for the prestigious Executive Alumni Status of IIM Kozhikode.

Starts On

December 30, 2021

Duration

1 Year

Format

Live Online Sessions

Programme Fee

INR 1,85,000 + GST



The Indian Big Data Technology and Service Market is expected to grow at a CAGR of 35.1% between 2021 and 2026.

(Mordor Intelligence, 2020)



The Indian analytics industry is estimated to reach approximately \$98 billion by 2025.

(Analytics Insight, 2021)



India's AI and analytics start-ups saw investments of \$836.3 Million in 2020.

(Analytics India Industry Study 2021)

Who is this Programme for?

There's a growing demand for skilled data science professionals across industries, management levels and job functions. Joining this programme will be most beneficial for:

- Managers and team leads managing analytics, data science and machine learning projects and teams
- Business and data analysts looking to transition to data science roles or projects
- Early-stage professionals interested in enhancing existing skills in data science and analytics
- Directors, business heads and senior management professionals looking to implement or scale their analytics and data science competency and overall organisational capability
- Consultants who want to develop a strategic mindset that revolves around business analytics and data science for client projects
- Small business owners and entrepreneurs who want to utilise analytics and data science to scale their business



Programme Highlights

IIM Kozhikode's Advanced Data Science for Managers programme imparts in-depth skills to master data science techniques and machine learning algorithms. Its high-impact learning pedagogy will build your analytical abilities to make real-time, data-driven business decisions. This programme also equips participants with a comprehensive understanding of advanced data science tools so that they can effectively manage and lead high-performing data science and analytics teams.



Develop a data-driven mindset to manage, visualise and analyse data effectively



Immersive learning journey with real-world case studies, business decision-related projects & Capstone Project



Certificate of Completion from IIM Kozhikode, one of India's Leading B-Schools



Hands-on exercises using real-world data sets & R practical sessions



Taught by eminent faculty & renowned industry experts



Earn Lifelong Executive Alumni Status & networking opportunities

Programme Director



Prof. Sreejesh S, PhD

Programme Director & Assistant Professor, Marketing Management

Prof. Sreejesh's primary research interests include marketing analytics, brand management, services marketing, and online marketing & advertising. His publications have appeared in Journal of Brand Management, Industrial Marketing Management, European Journal of Marketing, Computers in Human Behaviour, Journal of Travel and Tourism Marketing, International Journal of Contemporary Hospitality Management, Internet Research, Journal of Product and Brand Management, Journal of Service Theory and Practice, International Journal of Bank Marketing, etc. He serves on the editorial board of International Journal of Consumer Studies. He has also authored books of international repute with Pearson India and Springer International. Prof. Sreejesh S is currently working as an Assistant Professor of Marketing Management at IIM Kozhikode.

Programme Directors' Message

The Advanced Data Science for Managers programme will equip professionals to have practical and interlocking competencies that maximise the best use of data and interpret the insights generated from the data, which will drive them to have better business decisions in their day-to-day business scenario. Moreover, the machine learning focus of the programme using powerful data analytics platforms will develop industry-ready professionals with in-depth expertise in extracting meaningful insights from the complex data.

Note:

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

Programme Faculty



Prof. Satish Krishnan

Associate Professor Chair, Information Systems

Prof Satish holds a PhD in Information Systems and an M. Comp. in Computer Science from the National University of Singapore (NUS), Singapore with a six-month research internship at the Indian Institute of Science (IISc), Bangalore, as part of the Graduate Research Internship Program (GRIP). He holds a B. Tech in Information Technology from Anna University, Chennai. His research interests include adoption and diffusion of virtual social networks and the dark side of technology in areas such as cyberbullying, cyberloafing, and technostress. He has been awarded Outstanding Associate Editor, "Governance, Strategy, and Value of IS" track, International Conference on Information Systems (ICIS), Munich, Germany, 2019, the British Academy/Leverhulme Small Research Grant 2019 Award among others.

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Programme Modules

MODULE 1: DATA MANAGEMENT & DATA PREPARATION

- Introduction to Data Analytics using R & Python
- Understanding Data Structure
- Pre-process the Data

MODULE 2: STATISTICS & EXPLORATORY DATA ANALYSIS

- Data Visualization
- Exploratory Data Analysis
- Statistical Inferences
- Basics of Modelling

MODULE 3: MACHINE LEARNING ALGORITHMS

- Regression (Linear/Non-Linear/Logistic)
- Time Series analysis
- Classification
- Clusterina
- Text Mining & Social Media Analysis
- Simulation
- Optimisation

MODULE 4: CAPSTONE PROJECT / FINAL PROJECT

Capstone Project / Final Project

Holistic Curriculum

This comprehensive programme curriculum is integrated with a judicious blend of immersive learning tools such as live online lectures, hands-on exercises using data, real-world case studies, business decision-related projects as well as a final capstone project to reinforce an advanced understanding of data science in decision-making. Taught by renowned IIM Kozhikode faculty and Industry Experts, this engaging learning experience will empower participants to implement data-driven analytics for making insightful and impactful business decisions in their organisations.

Note: Modules/ topics are indicative only, and the suggested time and sequence may be dropped/modified/adapted to fit the total programme hours.

Capstone Project

With the capstone project, participants will gain hands-on learning experience in conducting data analysis scientifically, and make insightful and powerful connections between quantitative data analysis and real-world business challenges. This project will provide participants with an opportunity to integrate their theoretical and practical understanding of data science and explore ways to apply their learnings in a real-world competitive business scenario.

Real-world Case Studies

• Predicting Consumer Tastes with Big Data at Gap by Ayelet Israeli & Jill Avery.

This case explores how CEO Art Peck at Gap was betting that intelligence fueled by big data, Google Analytics and the company's own sales and customer databases, could outperform a fashion industry creative director at predicting the future fashion trends and tastes of consumers.

• The Weather Company: Creating Consumer Apps that Leverage its Big Data by Ruth Gilleran, Patricia J. Guinan & Salvatore Parise.

The Weather Company (TWC) was innovating by leveraging its big data on the weather to create new consumer products. This case describes the composition of the mobile app development team, the implementation of agile software development methods, and its use of modern big data technologies.

• **Dow Chemical Co.: Big Data in Manufacturing** by Mustapha Cheikh-Ammar, Nicole R.D. Haggerty, Darren Meister & R. Chandrasekhar.

In 2012, a pilot study undertaken by the data services team of the Dow Chemical Company revealed an uncanny trend on the company's shop floor. This case describes how the data services director saw an opportunity to reverse the trend through the deployment of big data capabilities and, more specifically, enterprise manufacturing intelligence (EMI), a subset of big data.

• Luminar: Leveraging Big Data Using Corporate Entrepreneurship Manufacturing by Simon Parker & Chandra Sekhar Ramasastry.

Entravision has just set up a digital analytics division called Luminar, which uses Big Data to focus on a company's marketing to a particular set of consumers. This case explores some significant issues faced by the incumbent president of the new division and how he should leverage business opportunities beyond digital analytics.

Note: The programme curriculum includes more such case studies for integrated learning.

Learning Outcomes

Joining this live online programme will enable participants to gain proficiency in data science and business analytics to manage the most challenging business situations with data-driven insights and analysis.

Gain an understanding of data analysis and structures, and the relationship between data sets





Learn to use analytical tools such as R, Python and SQL

Explore text mining analysis and techniques to understand the influence of social media





Learn to use descriptive, predictive, and prescriptive analytics to make real-time, data-driven decisions

Gain the skills and knowledge required to manage data science and analytics teams or projects at your organisation

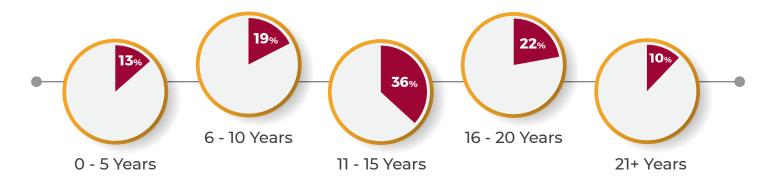




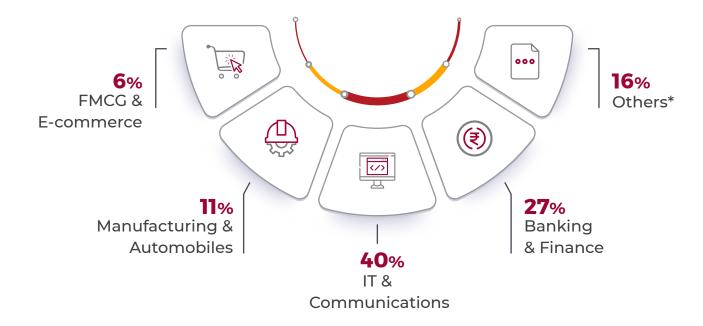
Gain an understanding of the tools and techniques used in Data Science and ML for business applications

Past Participant Profiles

Work Experience

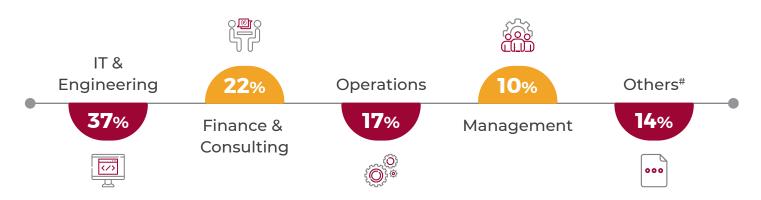


Industry



^{*}Others include Aerospace, Healthcare, Media, Sales, etc.

Functions



Certificate

Participants who successfully complete all evaluation components with minimum pass marks and meet the requisite 75% minimum attendance criteria will be awarded a Certificate of Completion from IIM Kozhikode. Participants who are unable to clear the evaluation criteria but have the requisite attendance will be awarded a Participation Certificate.



Note: All certificate images are for illustrative purpose only and may be subject to change at the discretion of IIM Kozhikode.

Eligibility

Graduates (10+2+3) or Diploma Holders (only 10+2+3) from a recognised university in any discipline with a minimum of 1 year of work experience (after graduation) as on December 30, 2021.

Evaluation

There will be periodic programme at regular intervals. These may be in the form of a quiz, assignment, project, case studies or other obiective/ subjective assessments. minimum of 75% attendance is a prerequisite for the successful completion of this programme. The participants will have to secure the minimum pass marks evaluation the respective components.

IIM Kozhikode Executive Alumni Status

On successful completion of the programme, participants will be eligible for the prestigious IIM Kozhikode Executive Alumni Status. These participants will subsequently receive the alumni registration details from IIM Kozhikode.

Note: The Executive Alumni benefits are subject to the discretion of IIM Kozhikode.

Programme Details

Programme Fee INR 1,85,000 + GST

Academic Orientation Jan 09, 2022

Instalment Schedule

Particulars	Remarks	Amount
Booking Amount	Within 7 days post selection	INR 27,000 + GST
Instalment I	Jan 04, 2022	INR 47,000 + GST
Instalment II	Apr 05, 2022	INR 46,000 + GST
Instalment III	Jul 05, 2022	INR 37,000 + GST
Instalment IV	Oct 05, 2022	INR 28,000 + GST

Round-wise Application Dates

Particulars	Application Fee	Dates
Round 1	_	Oct 25, 2021
Round 2	INR 2,000 + GST	Nov 25, 2021
Round 3	INR 2,500 + GST	Dec 22, 2021

Programme Schedule

- Live Online Sessions
- ^{L.} 3 Hours/ week Sunday, 3:25 PM to 6:25 PM
- **Attendance**
- $^{ldsymbol{ldsymbol{ldsymbol{ldsymbol{\mathsf{L}}}}}$ Minimum 75%

- Note
- Admissions are on a first-come, first-serve basis. There might not be subsequent rounds if seats are filled in the initial rounds.
- Programme Application Link
- [→] Click here to apply to the programme.
- → Finance options available. <u>Click here</u> to learn more.
- For more information, please email at iimk@eruditus.com

Note: The actual programme schedule will be announced closer to the programme start. .

Application Requirements

Applying to the programme? We suggest you keep the following 3 documents ready.

1. Your Photo ID Proof:

• You can submit a scanned copy of **ANY ONE** of: Aadhaar Card, e-Aadhaar, PAN Card or the first two pages of your Passport. In case you submit an e-Aadhaar card, please rename the file to its password so we can open the file.

2. Your Graduation/Degree:

• You can submit a scanned copy of **ANY ONE** of: Degree certificate, provisional Degree certificate, marks transcript or score transcript.

3. Your Work Experience Certificate:

- You can submit scanned copy(ies) of document(s) which demonstrate that you have the minimum work experience required by the programme.
- You can confirm the minimum work experience requirement of a programme under the heading 'Eligibility' in the brochure or the programme website
- Examples of documents you can submit are joining letter, relieving letter, Bonafide work experience letter from your HR, salary slips etc.
 - These documents must be issued by your company.
 - Please ensure that the document(s) you submit contain a date of joining and a date of leaving or a statement about the number of years you have worked at the company.



System Requirements

This programme includes live online classes. To attend a live online class you will need to have a PC/Laptop/Mac with

- Speakers and microphone: built-in or a USB plug-in or wireless Bluetooth
- Webcam: built-in or USB plug-in
- Processor: with Dual Core 2Ghz or higher (i3/i5/i7 or AMD equivalent)
- RAM: 4 GB or higher
- OS: Either MacOS 10.7 or higher OR Windows 8 or higher
- An internet connection: Minimum bandwidth of 3.0 Mbps (up/down)
- Browser: IE 11+, Edge 12+, Firefox 27+, Chrome 30+
- Zoom software client installed on your PC/Laptop/Mac

We use the Zoom software application to conduct live online classes. Zoom works on a variety of PCs/ Laptops/Mac systems and also on phones and tablets.

You can join your live online class from a phone or tablet if it supports the Zoom client.

We recommend that you attend classes from a PC/Laptop/Mac.



About IIM Kozhikode

With its roots dating back to 1997, the Indian Institute of Management Kozhikode (IIMK), started with a batch size of 42 students but has grown tremendously over the years to a current batch strength of 485 students, making it the fastest-growing management school in the country. IIM Kozhikode has achieved its own unique identity, a mix of two cultures, academic and business and is fast emerging as an internationally reckoned fully-integrated management institute of higher learning. One of the most picturesque campuses in the country, the world-class infrastructure includes air conditioned class rooms, guest facilitation zones and wifi connectivity which enables every IIM Kozhikode resident to be exposed to a wholesome experience. Managed by dedicated personnel, it is one of the most efficient institutions in the country. IIM Kozhikode pioneered the Interactive Learning (IL) programme for working executives in India. This programme started with 300 class contact hours in 2001-02, the two-year-long Executive Management Education Programme is today the most rigorous programme in the country having around 738 class contact hours.

Every year IIM Kozhikode offers a rich portfolio of Management Development Programmes crafted for the agile minds on the lookout for thought-provoking questions and enriching learning experiences. Recently, IIM Kozhikode has launched a one year Post Graduate Programme in Business Leadership (PGP-BL) in the year 2019 and has also launched a two years Post Graduate Program in Liberal Studies & Management (PGP-LSM) as well as the Post Graduate Program in Finance (PGP-Finance). Over the years, there has been a significant increase in the number of training programmes and participants. The speed and momentum of changes in the Indian business environment are unabated, and IIM Kozhikode's endeavour is to adapt to these changes through constant innovation.

About Eruditus

Eruditus Executive Education offers customised and open programmes in India, Singapore, Dubai and other global locations in collaboration with MIT Sloan, Columbia Business School, INSEAD, Harvard Business School (HBS), Kellogg Executive Education, Berkeley Executive Education, Wharton Executive Education, IIM Lucknow Executive Education, IIM Calcutta Executive Education and Emeritus. Our world-class executive education programmes, supported by eminent programme experts, provide an immersive learning experience integrated with actionable insights and practical business applications. The meticulously curated programmes are delivered in a different range of formats; in-class, online, as well as blended programmes. Our extensive portfolio also includes short 2-4 day in-class workshops, online courses of 2-3 months duration as well as comprehensive learning journeys that run over 6-9 months, customised to an organisation's requirement.

Apply for the programme here

APPLY NOW

For registration and any other information, please get in touch with us at iimk@eruditus.com

WhatsApp an Advisor On +91 7208889990*

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

In collaboration with



