



भारतीय प्रौद्योगिकी संस्थान कानपुर
Indian Institute of Technology Kanpur

ADVANCED DATA SCIENCE & MACHINE LEARNING for Business Analytics

3 October 2026



Online Certificate Program

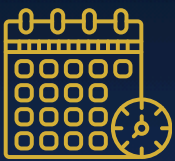
Office of Outreach Activities

Transforming Data into Strategic
Business Advantage



About the program

Organizations today need professionals who can combine analytical thinking with business decision-making. This six-month online certification program helps participants build practical capabilities in Data Science, Machine Learning, Business Analytics, and Strategic Management.



6 Months



Online



**Weekend
Live Classes**



60 Hours

Why this program?

Bridge Business & Analytics

Connect strategic thinking with data-driven insights.

Learn Industry-Relevant Technologies

Gain exposure to modern analytics and AI technologies.

Strategic Decision-Making

Solve complex business challenges using data-driven insights.

Hands-On Learning

Apply concepts through practical business scenarios.

Career Advancement

Build future-ready skills for emerging opportunities.

IIT Kanpur Credential

Earn a certification from a premier institution.

9

**5 Core Modules
4 Elective Modules***

60

Hours of Learning

13

Faculty Experts

100%

Online Delivery

*All elective modules are mandatory and must be successfully completed.

Learning framework



Core Modules

- Introduction to Business Statistics
- Introduction to Artificial Intelligence and Machine Learning
- Introduction to Programming with R and Python
- Introduction to Linear and Non-Linear Modelling
- Applied Machine Learning

Elective Modules

- Financial Analytics
- Marketing Analytics
- Human Resource Analytics
- Supply Chain Analytics

Note

All elective modules are compulsory and must be completed as part of the program curriculum.

Program coordinator

Prof. Abhinava Tripathi

Assistant Professor, Department of Management Sciences, IIT Kanpur



The architecture of this program is a direct reflection of Prof. Tripathi's unique interdisciplinary expertise. Bridging a highly technical background in Chemical Engineering (IIT Roorkee) with a Ph.D. in Finance and Accounting (IIM Lucknow), his career embodies the exact synthesis of technology, analytics and business strategy that this program teaches.

Corporate Experience

6+ years in Banking, Investment Banking, and Credit Rating. Deep expertise in deal structuring and real-world financial modelling.

Research & Pedagogy

Specializes in Market Microstructure, High-Frequency Econometrics, and applied Python/R for Financial Big Data Analytics.

Who should attend?



Program details

Program Fee



₹85,000/-* + 18% GST

(The program fee can be paid in two easy installments)



Application Fee

₹1,000/-* + 18% GST

Flexible Learning Path



3-Month Exit Option



Certificate of Participation

*Application fees are non-refundable and non-transferable. Program fee, if discontinued within 7 days of the program start date (3 October), will be refunded after deducting ₹10,000/- as administrative charges.

Eligibility

1

- A Bachelor's Degree from a recognized University/ Institute is mandatory.
- A minimum aggregate of 55% is mandatory.

OR

2

- A minimum 3 years of relevant work experience.
- And minimum aggregate of 40% is mandatory.

Frequently Asked Questions

1. What documents are required to apply for this program?

Candidates must submit either a Bachelor's degree with a minimum aggregate of 55%, OR a Bachelor's degree with a minimum aggregate of 40%, along with minimum 3 years of work experience letter from your current or past company.

2. Is an entrance examination required for admission?

No. Admission to the program does not require an entrance examination.

3. What is considered as "relevant work experience" for eligibility purposes?

Full-time professional experience relevant to the program or field of study, amounting to a minimum of 3 years, is considered valid for eligibility purposes.

4. What distinguishes the 3-month exit from completing the full program?

Completing the full six months earns you an IIT Kanpur Certificate of Completion, whereas the 3-month exit option offers a Certificate of Participation for those who complete only the foundational phase.

5. Is prior coding or programming experience mandatory for this program?

No. The program begins with foundational concepts and progressively advances to analytics and machine learning applications.

6. What kind of roles can I realistically pursue after this program?

Graduates are well-suited for careers in business analytics, financial analytics, marketing analytics, supply chain analytics, management consulting, and data science leadership.

7. Are the application and program fees refundable?

Application fees are strictly non-refundable and non-transferable. Program fees may be refunded – after deducting ₹10,000/- only if the candidate discontinues within 7 days of the program start date (3 October).

8. I have more than 3 years of work experience, but my academic aggregate is below 40%. Am I still eligible?

No. Since both criteria are mandatory, falling short on the minimum academic aggregate makes an applicant ineligible, irrespective of the number of years of work experience, and vice versa.



Contact us



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