



IIM NAGPUR

भारतीय प्रबंध संस्थान नागपुर
Indian Institute of Management Nagpur

Revolutionizing **DATA DRIVEN** Decision-Making

PG Certificate Programme in

**Data Science for Business
Excellence and Innovation**

Batch 04



Marketing Partner

jaro education

About IIM Nagpur

Established in 2015, the Indian Institute of Management Nagpur (IIMN) aspires to be a leading management institution that shapes management systems, policy and governance through high-quality education, research and industry engagement. Propelled by the pursuit of engaged scholarship, the Institute aims to create value-driven leaders and global managers with strong conceptual foundations and analytical approaches, which helps them excel in diverse spheres - be it management, business, policymaking, and public administration, to name a few.

IIM Nagpur aims to address the needs of a modern India; connecting aspirations and realities to attain benchmarks that are respected internationally. Our motto, **सत्यं च स्वाध्यायप्रवचने चं**, that is, an inspiring journey towards truth through individual reflection and collective discourse, propels our quest to bridge the gap between abstract knowledge and practice.

IIM Nagpur seeks to distinguish itself as an institution that promotes constant industry engagement of a 'problem-solving' nature. Executive Education, therefore, is an important thrust area for the Institute. With an array of programmes designed by a faculty body with a stellar record of research, teaching and industry engagement, the Executive Education programme at IIM Nagpur equips managers and executives with the capabilities to perform effectively in their current roles, and take up greater challenges through various stages of their careers.



Director's Message



With its unique advantages, IIMN is an exciting place to learn, grow and be the 'champions of change'.



Dr. Bhimaraya Metri
Director, IIM Nagpur

I take pleasure to welcome you to IIM Nagpur (IIMN). IIMN was established in 2015 as the first of the third generation IIMs, by the Ministry of Education, Govt. of India at the orange city Nagpur which is equidistant (in terms of travel time by air) from major metropolises-Delhi, Chennai, Kolkata, Mumbai. Its' a thriving and fastest-growing city that stands positioned as the logistics capital of India, providing fertile ground for business ventures.

The striking feature of IIMN's state-of-the-art new campus, spread over 132 acres, is its location in the heart of the industrial hub within the country's first Multi-product Special Economic Zone at MIHAN, adjacent to Dr. Babasaheb Ambedkar International Airport, Nagpur. Thus, IIMN enjoys a natural advantage of being near to industry, enabling greater connections and partnerships with businesses across the sectors in SEZ and MIDCs. IIMN's unwavering focus on pioneering exceptional industry partnerships to lead the way in providing real-world experiences prepares our management graduates for life by bringing 'corporate into classrooms' to produce relevant talent for the corporate world.

Programme Director



Prof. Nikunj Kumar Jain

Faculty in the Production and Operations Management Area, IIM Nagpur

Prof. Nikunj Kumar Jain is a faculty in Production and Operations Management at IIM Nagpur. He has completed his Fellow Program in Management (PhD) from IIM Indore and B.Tech (Electrical Engineering) from MANIT, Bhopal.

He has previously worked with IMT Ghaziabad, IMI Delhi and FORE School of Management Delhi and has cross-functional work experience in a green field refinery project at Bharat Oman Refineries Ltd. Bina, Sagar (M.P.). He has conducted training programs on Operations Excellence, Supply Chain Management, Transportation Management, Project Management, Data Analytics, Scientific Rigor and Statistical Modelling to various industries for middle and senior management. He has also conducted workshops on Structural Equation Modelling and Research Methodology for academicians.

Prof. Sujeet Kumar Sharma

Faculty in Decision Science & Information System Area, IIM Nagpur



Prof. Sujeet K. Sharma is a faculty in the Decision Science & Information Systems area at the Indian Institute of Management (IIM), Nagpur. Prof. Sharma has been teaching for more than 22 years in India, Oman, and Bahrain, giving him a broad experience in teaching and interacting with students across multiple cultural and ethnic backgrounds. Prior to joining IIM Nagpur, Prof. Sharma worked with IIM Tiruchirappalli, Sultan Qaboos University, Oman and Birla Institute of Technology, International Center, Bahrain. His research interests include Blockchain, Artificial Intelligence, Social Media, Mobile Technologies, e-Services and IT for Disaster Management and has published 40 international journal articles with ABDC/ABS ranking.



Future of Data Science Innovation in Exploration



The market size of **Data Science platforms** is expected to reach **178 billion US Dollars by 2025**. The US Bureau of Labour Statistics has stated that the jobs requiring Data Science skills will rise



Source: Collegedunia

Programme Overview

In the disruptive digital age, AI and ML are emerging to produce a massive potential to automate business routines, enabling tomorrow's businesses to make smart decisions, understand the market better and effectively align market resources. Delve into new-age data science techniques and tools and upskill from India's top-ranked institute, IIM Nagpur's Post Graduate Certificate Programme in Data Science for Business Excellence and Innovation.

Embark on a learning path to identify relevant use cases catering to new-age AI/ML techniques. Master the alchemy of people, data science tools and innovative strategies to attain an edge over competitive advancement. Learn how to redefine appropriate analytical solutions, implement the prescribed solutions and imbibe the output for strategic and operational activities to transform organizations. Pedagogy builds a benchmark with an extensive blend of lectures, case-based discussions, hands-on training and much more.

Key Highlights



PG Certification &
Alumni Status-IIM Nagpur



Case Study
Based Learning



Personal Mentoring and
Consultation from Faculty



Gain Exposure to New-Age Tools
like AI/ML, Tableau, Python, and
Google Analytics Tool



Chamber Consultation Sessions



Exposure to working on real-time
business problems and solutions

Programme Objectives

1 To provide participants with an understanding of:

- Basic concepts and methods in machine learning, AI & Analytics consulting
- Popular algorithms for processing and analysing structured and unstructured data
- Data visualization tools and techniques
- Big Data Management

2 Help develop the ability to:

- Communicate effectively using data visualization and story-telling
- Conceptualize the application of analytics across various functions of organization
- Understand business problems to be solved using analytics
- Integrate standalone components of analytics solution into one unified solution



Learning Outcomes _____.



Managerial understanding of the tools & techniques used in Data Science and Machine Learning



Skills to make data-driven, real-time, day-to-day organisational decisions



Understanding of the concepts of statistics to make strategic business decisions



Skills to implement machine learning algorithms



In-depth understanding of data structure and data analysis

DATA SCIENCE



ANALYSIS



STRUCTURE



ALGORITHM



PROCESS



PROGRAMMING



SOLVING



KNOWLEDGE

Programme content_____.

Data Visualization and Story-Telling

- Data Visualization using Tableau
- Story-telling using data

Modern Data Management and Cloud Technologies

- Big Data, Data lakes, and data pipelining
- Cloud Technologies for data analytics
- Ethical and Legal considerations related to data

Data Analytic Tools

- Tableau
- Python
- Google Analytics Tools

Business Statistics

- Probability
- Statistical Distributions
- Hypothesis Testing

Machine Learning Algorithms

- Cluster Analysis
- Association Rule Mining
- Recommendation Systems
- Regression and Decision Tree Models
- Artificial Neural Networks

Forecasting and other Statistical Methods

- Time-Series Analysis
- Logistic and Poisson regression
- ML Forecasting Models

Prescriptive Analytics

- Prescriptive Analytics
- Optimization
- Business Simulation

Deep Learning and Artificial Intelligence

- Natural Language Processing
- Chat bot
- Computer Vision | Image Analytics | Video Analytics
- Artificial Intelligence Use Cases

Social Media

- Social Media Tools
- Social Media Analytics

Analytics Consulting and Industry Overview

- Business consulting using analytics
- Contemporary analytics applications across the industry

Innovate and Transform using Data Analytics

- Digital Innovation
- Adoption of analytics applications
- Business process transformation

Capstone Project



DATA SCIENCE

Pedagogy



The programme curriculum will be a mix of lectures, case-based discussions and hands-on training



Each machine learning technique will be taught using a relevant business case. Participants will get exposure to working on various real-time business problems and their solution through Data Analytics



Hands on experience on tools such Microsoft Excel, Tableau, Python, etc. will be given to participants



Programme Details _____.

Programme Duration	1 Year
Programme Schedule	Day: Sunday Timings: 10:00 AM to 01:00 PM
Application Closure Date:	Closing Soon
Commencement Date:	28 th April 2024
Mode of Delivery	Direct-to-Device (D2D)
Chamber Consulting Sessions	For Every Course
Campus Immersion	Campus visit* of 3 days at the end of the programme for project presentations and Valediction
Eligibility	Minimum 50% in Graduation from a recognized National or International University Minimum 2 years of work experience

*subject to prevailing Government rules pertaining to the pandemic

Fee Structure

Application Fee	INR 2,000/- (exclusive of GST)
Programme Fee	INR 2,40,000/- + 18% GST
Installment Pattern	
First Installment	INR 80,000/- + 18% GST
Second Installment	INR 80,000/- + 18% GST
Third Installment	INR 80,000/- + 18% GST



Specimen Certificate _____.

POST GRADUATE CERTIFICATE PROGRAMME IN

DATA SCIENCE FOR BUSINESS EXCELLENCE AND INNOVATION

for those who successfully complete the prescribed programme of
Data Science and fulfill all the academic requirements.



The image shows a specimen certificate template for IIM Nagpur. It features the IIM Nagpur logo on the left, which includes a sunburst and the text 'सर्वज्ञानं सर्वभूतानां तन्मयोऽस्य विद्यमानः' and 'Indian Institute of Management Nagpur'. The text on the certificate reads: 'Executive Education IIM NAGPUR' with the roll number '[Roll No. 000000]' in the top right. The main title is 'Certificate of Completion'. Below it, it says 'This is to certify that' followed by a blank box for a photo and the text 'Participant Name' in a cursive font. The certificate states that the participant has successfully completed the 'Post Graduate Certificate Programme in Data Science for Business Excellence and Innovation'. The dates are given as 'held during / / to / /'. At the bottom, there are four signature lines with the titles: 'Programme Director', 'Programme Director', 'Chairperson, Executive Education', and 'Director, IIM Nagpur'.

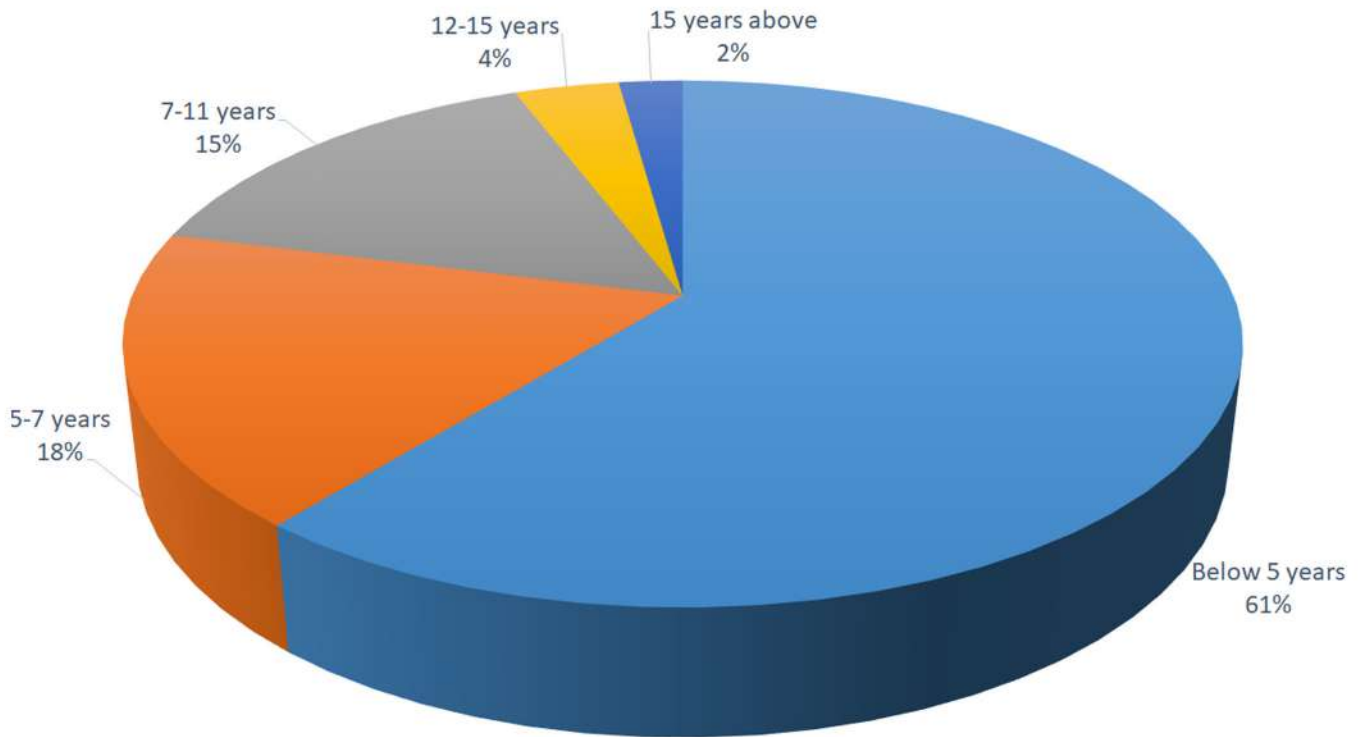
Executive Education [Roll No. 000000]
IIM NAGPUR
भारतीय प्रबंध संस्थान नागपुर
Indian Institute of Management Nagpur

Certificate of Completion
This is to certify that
Participant Name
has successfully completed the
**Post Graduate Certificate Programme in
Data Science for Business Excellence and Innovation**
held during / / to / /

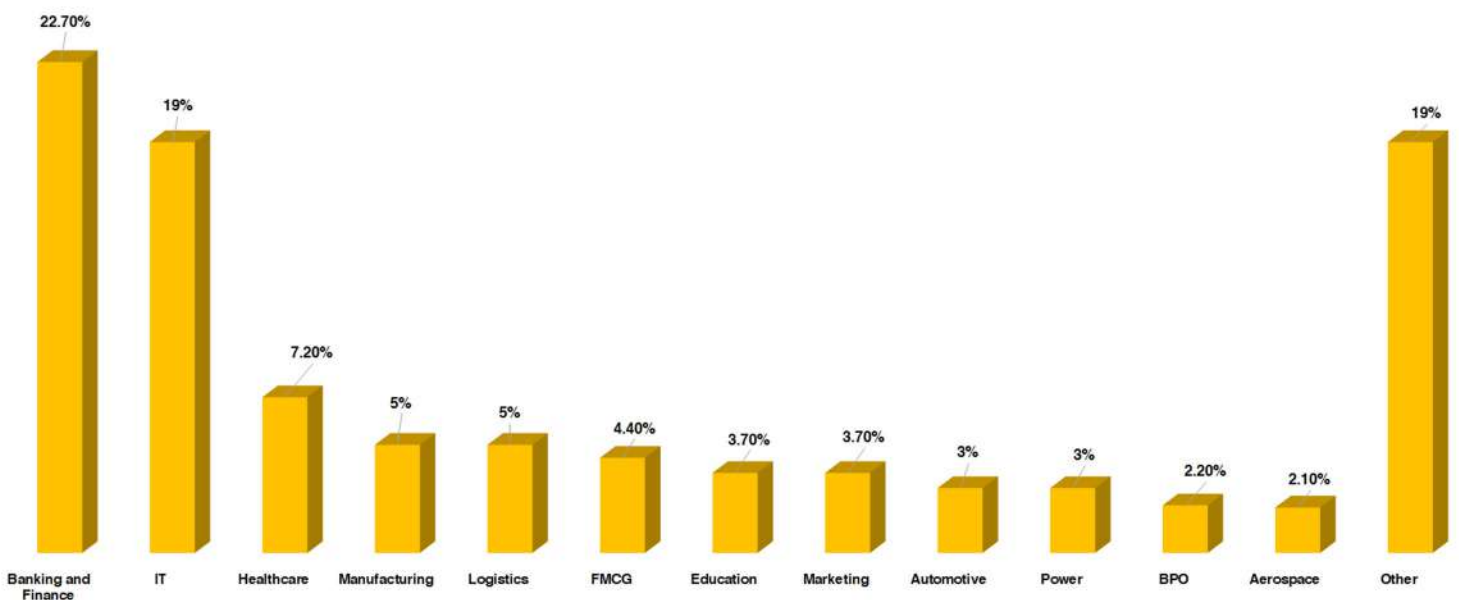
Programme Director Programme Director Chairperson, Executive Education Director, IIM Nagpur

Recent Batch Analysis

Work Experience



Industry Profile



Top Companies

The logo for Accenture, featuring the word "accenture" in a bold, black, sans-serif font. A purple chevron symbol is positioned above the letter 'u'.The logo for J.P. Morgan, consisting of the text "J.P. Morgan" in a classic, brown, serif font.The logo for Capgemini, featuring the word "Capgemini" in a blue, sans-serif font, with a blue circular icon to its right.The logo for ICICI Bank, featuring a stylized orange and red "i" icon followed by the text "ICICI Bank" in a blue, sans-serif font.The logo for DHL Logistics, featuring the word "DHL" in a bold, yellow, italicized font with red horizontal lines, and the word "LOGISTICS" in a black, sans-serif font below it.The logo for Mondelez International, featuring the word "Mondelēz" in a purple, cursive font, with "International" in a smaller, black, sans-serif font below it.The logo for Mahindra, featuring a stylized red "M" icon above the word "Mahindra" in a bold, red, sans-serif font.The logo for Bank of America, featuring the text "BANK OF AMERICA" in a black, sans-serif font, with a red and blue striped icon to its right.The logo for Amazon, featuring the word "amazon" in a black, sans-serif font, with a yellow curved arrow below it.The logo for TCS (Tata Consultancy Services), featuring the letters "tcs" in a colorful, lowercase font, followed by "TATA CONSULTANCY SERVICES" in a blue, uppercase, sans-serif font.

- Past performance records do not guarantee any future opportunities.
- All company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.



Designation/Role of Previous Participants



Director

Associate Director



Manager,
India Operations
& Technology

Chief Manager



Senior Director
Media Operations

Head - IT



Deputy Branch
Manager

Senior General
Manager (Corporate)



From Our Participant _____.

The participant of the **Post Graduate Certificate Programme in Data Science for Business Excellence and Innovation – IIM Nagpur**, shares his experience:



Mr. Sumit Sharma

Senior Director,
Media Operations, GroupM

My experience with the program was excellent. We were provided up-to-date material for reference and well-briefed on every aspect of the course. Moreover, it captures all the aspects in line with future requirements, and we were provided proper guidance and support. The class size was more than 60 students and the average experience level was more than 12 years. This created a great opportunity to learn all-around. We not only had the IIM Nagpur faculty teaching this course, market experts and industry leaders also took us through their domains.

Looking back to the start of my career, I come from a digital background. Later, I switched my domain to the technical operations side of the business. My vision was to lean more towards the Data side of the business so that I can help my organization by delivering a better quality of work. As we live in a data-driven era, I chose to opt for this program and pursue this domain. It is sought-after as it leads to a tangible and measurable business outcome. The past 6 months have been phenomenal. The time I have been investing has paid off, as I have gained learning in terms of tools, concepts, advancement in the world of data science, etc.

Overall, Jaro Education did a fantastic job in helping us understand how it becomes pretty easy when you have a facilitator or an organization whose vision is to drive knowledge to people as much as it can.

[Click here to watch the full video](#)

Career Assistance

Profile Building

Rigorously building the candidate's profiles and resume scrutinizing with their LinkedIn profiles. Jaro Education enables personalised feedback to boost overall virtual presence.

Resume Review

Moving forwards with carefully curated resumes reviews that ensures you are interview-ready for the workplace of tomorrow.

Career Enhancement Sessions

Bridging connectivity to link the best talent with organizations through eminent sessions from top-class industry speakers.

- IIM Nagpur or Jaro Education do not guarantee or promise you a job or advancement in your existing position. Career Services is simply provided as a service to help you manage your career in a proactive manner. Jaro Education provides the career services described here. IIM Nagpur is not involved in any way with the career services described above and offers no commitments.



About Jaro Education



e-India Awards

The Best ICT Enabled
Higher Education
Institute Award



Educational
Excellence Awards

Most innovative &
Successful Online MBA
Program in India



MODI Awards

Outstanding Contribution
in Online Education



ABP Education
Awards

Best Digital Learning
Innovation Award



World HRD
Congress

National Best
Employer Accolade



World HRD
Congress

Edtech Leadership
Awards

3,50,000+

Career Transformed

120+

Programs from Diverse Domains

30+

World's Leading Academic Partners

23+

Learning Centres across India

20+

Top NIRF Ranked Indian Institutes
& Universities

10+

Top QS Ranked Global Institutes
& Universities

Jaro Education is an edtech pioneer and online higher education company that specialises in executive education, serving as a liaison between the world's leading universities and institutes to create online and technology-driven programmes. The company provides a quality bucket of online executive education programmes catering to domains such as Doctorate & Ph.D., Analytics & Data Science, Management, Finance, etc., from renowned national and international institutions to meet the needs of working professionals. Our goal is to foster the growth of entrepreneurs and professionals at all levels, from entry-level to C-Suite, through world-class executive education programmes.

Jaro Education's Presence

Ahmedabad | Bangalore | Chennai | Delhi/NCR |
Hyderabad | Jaipur | Kolkata | Mumbai | Nagpur | Pune

Contact Us

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