



PG Diploma and

MTech.* in Data Engineering

Integrated Program in AIML, GenAl and Data Science

Indian Institute of Technology, Jodhpur



12 MONTHS PROGRAM with Campus Immersion

T ALUMNI STATUS

LIVE ONLINE SESSIONS

by IIT Jodhpur Faculty and ex-MAANG experts with Real World Projects

AY 2025 - 26 | Cohort 6

Apply Now

Table of Contents

01	Message from the Director	pg no.	03
02	Context of the Program	pg no.	04
03	About PG Diploma in Data Engineering	pg no.	05
04	Who is this Program for?	pg no.	06
05	Program Highlights ————————————————————————————————————	pg no.	07
06	Program Outcomes	pg no.	80
07	Student Journey ————————————————————————————————————	pg no.	09
08	Post IIT Jodhpur PG Diploma	pg no.	10
09	Career Opportunities	pg no.	11
10	Futurense Bridge Courses	pg no.	13
11	Curriculum ———————————————————————————————————	pg no.	14
12	Campus Immersion ————————————————————————————————————	pg no.	15
13	Program Directors ————————————————————————————————————	pg no.	16
14	Esteemed Advisors	pg no.	17
15	Futurense Leadership Council	pg no.	18
16	Program Details ————————————————————————————————————	pg no.	20
17	Admission Process	pg no.	21
18	Cohort Demographics & Profile	pg no.	22
19	About IIT Jodhpur	pg no.	23
19	About Futurense ———————————————————————————————————	pg no.	24



Message from The Director



Prof. Avinash Kumar Agarwal
Director, IIT Jodhpur

"Our vision is to equip learners pursuing PGD & MTech. in Data Engineering program with the necessary modern skills and competencies to participate in a rapidly transforming technological knowledge ecosystem, shaped by data engineering and artificial intelligence. This will ensure a workforce ready for the new and emerging job roles putting India at the forefront of the rapid global technological advancements."

Prof. Avinash Kumar Agarwal is currently the Director at IIT Jodhpur. Prior to joining IIT Jodhpur, he served as an SBI Endowed Chair Professor and J C Bose National Fellow at the Department of Mechanical Engineering, IIT Kanpur. His research interests include IC engines, combustion, alternative fuels, optical diagnostics, particulate and emission control etc.

Prof. Agarwal has published over 540+ peer-reviewed international journal and conference papers, 70+ edited books, 125+ book chapters attracting more than 17500+ Scopus and more than 26000+ Google scholar citations. He is the associate principal editor of prestigious "Fuel" Journal. For his outstanding contributions, Prof. Agarwal has been conferred upon several prominent recognitions and awards such as J C Bose National Fellowship (2019) by SERB, the Clarivate Analytics India Citation Award (2017) in Engineering and Technology and prestigious Shanti Swarup Bhatnagar Prize (2016) in Engineering Sciences.

He is an elected Fellow of the Society of Automotive Engineers International (USA), American Society of Mechanical Engineers, Indian National Academy of Engineering, Royal Society of Chemistry, National Academy of Science Allahabad, American Association for Advancement in Science (USA), Combustion Institute (USA), and The World Academy of Sciences.



Context of the Program

DATA-DRIVEN DECISION-MAKING

Businesses and organizations are relying more and more
Demand for skilled data professionals has skyrocketed

The role of a data professional has evolved. While data science and analytics remain critical, the modern enterprise demands more than just insights. To truly harness the power of data and maximize its value, organizations are now focused on building robust, scalable, and production-ready data solutions. This shift, coupled with the rapid rise of Generative Al and other automated technologies, has created a massive demand for professionals who can not only analyze data but also design, build, and maintain the complex data infrastructures that power it.

The data engineering landscape in India is experiencing unprecedented growth, with significant job opportunities for those equipped with the right skills. Data engineers and scientists are at the forefront of this digital transformation, enabling businesses to enhance their decision-making, gain deep customer insights, and build cutting-edge data solutions at scale.



Data Science & Engineering

NOWS YOUR TIME TO SHINE

- 66
 - Massive Market Growth: The Indian data and analytics market is projected to reach over \$20 billion by 2030, reflecting the immense value companies now place on data-driven operations. (NASSCOM, various industry analyses)
 - Surging Job Opportunities: India's tech industry is expected to need over 1 million Al and data professionals by 2026, with a significant surge in demand for roles in Al/ML and Data Science.
 (The Economic Times, Times of India, recent industry reports)
 - High-Value Salaries: Experienced data professionals with 3-10 years of experience can now command annual salaries ranging from ₹25 Lakh to ₹65 Lakh, with top-tier roles and leadership positions reaching upwards of ₹1 Crore. (6figr, upGrad, and various talent trends reports for 2025-2026)



About PG Diploma in Data Engineering

With Data Science, Analytics and Generative Al

The first of its kind **Highly Industry Oriented PG Diploma Program** is designed by the top faculty at IIT Jodhpur along with inputs from various global schools of Data Science and Engineering and industry experts including top **CXOs** and **Leaders of Data Science** and **Engineering Practice**.

This program takes into account the rapidly evolving landscape of **Data Science**, **Engineering and Al Driven Technology Stacks**, the transformation led by Generative Al, as well as the future of data-focused job-role competencies. IIT Jodhpur is well known for its excellence in academics, research, and creative accomplishments as well as its multidisciplinary approach as well as industry relevance, and the same expertise is brought into this program design.

This 12-month Intensive Program weaves together academic and conceptual learnings from top faculty from IIT Jodhpur, augmented by hands-on practical sessions conducted on the most recent tools and platforms led by Industry Experts, including Prompt Engineering and Generative AI, integrates industry use cases, mini-projects, assignments, and capstone projects to provide a highly experiential learning outcome. The program will provide you with the opportunity to work on real-world projects, enabling them to apply their learning in practical scenarios.





Who is the —

Program for

If you aspire for a high growth career in data field, either in the **Data Science**, **ML Track** or in the **Engineering and MLOps Track**, this program will provide you with the right knowledge, tools, technologies and a prestigious IIT PG Diploma credential to accelerate your career.

If you are an aspiring or a current **Software and Technology Professional**, this PG Diploma program will help you hone **High In-demand Skills** such as **Big Data Engineering**, **MLOps**, and **Machine Learning**.

Eligibility*

For students who want to ONLY pursue PGD in Data Engineering

- Minimum 50% marks in Undergraduation, or Postgraduation:
 - BTech. Degree
 - BSc./ BCA+ MSc./MCA/Master's degree in science/or in a STEM field
- Minimum of 1 Years of Work Experience is mandatory (after qualifying degree) at the time of registration to the program.

(The applicant must qualify the pre-screen test to be eligible for the program)

Eligibility** For stu

For students who want to transition to M.Tech after PGD in Data Engineering

- Minimum 60% marks in Undergraduation
 - BTech. Degree
 - BSc./ BCA+ MSc./Master's degree in science
 - BSc./ BCA + MCA, or in a STEM field
- First division in **Under-graduation / Post-graduation**
- Minimum of 2 Years of Work Experience is mandatory (after qualifying degree) at the time of registration to the program.

(The applicant must qualify the pre-screen test to be eligible for the program)

*If students whose eligibility criteria do not pass the M.Tech program delivered in Executive Mode threshold, they will not be allowed for M.Tech.

**Admission to M.Tech program delivered in (Executive Mode) is based on the discretion of the Program Director.





Program — Highlights

NEXT-GEN CURRICULUM FOR A FUTURE-PROOF CAREER

 Cutting-edge Project-centric Curriculum built by Industry Experts and IIT Jodhpur Faculty after the emergence of Generative AI

Application-oriented approach along with Case Studies & Project work

Transfer your credits towards M.Tech Program by IIT Jodhpur*

THE IIT DREAM

Attain PGD by IIT Jodhpur

Achieve IIT Jodhpur Alumni Status

Become a part of IIT Jodhpur Alumni network

Network with experts from Data & Analytics industry

HYBRID LEARNING

Live Sessions Every Week

Live Online Masterclasses by Top Industry Experts

There is will be 1 mandatory campus immersion of 5 to 7 days in every academic year

INDUSTRY-TETHER WITH FUTURENSE

Fully Sponsored Futurense Bridge Course covering the Foundations of the Program

Futurense Career Support



^{*}Based on the PD's discretion and the graduating requirements, you can transition to the M.Tech Program (Executive Mode).

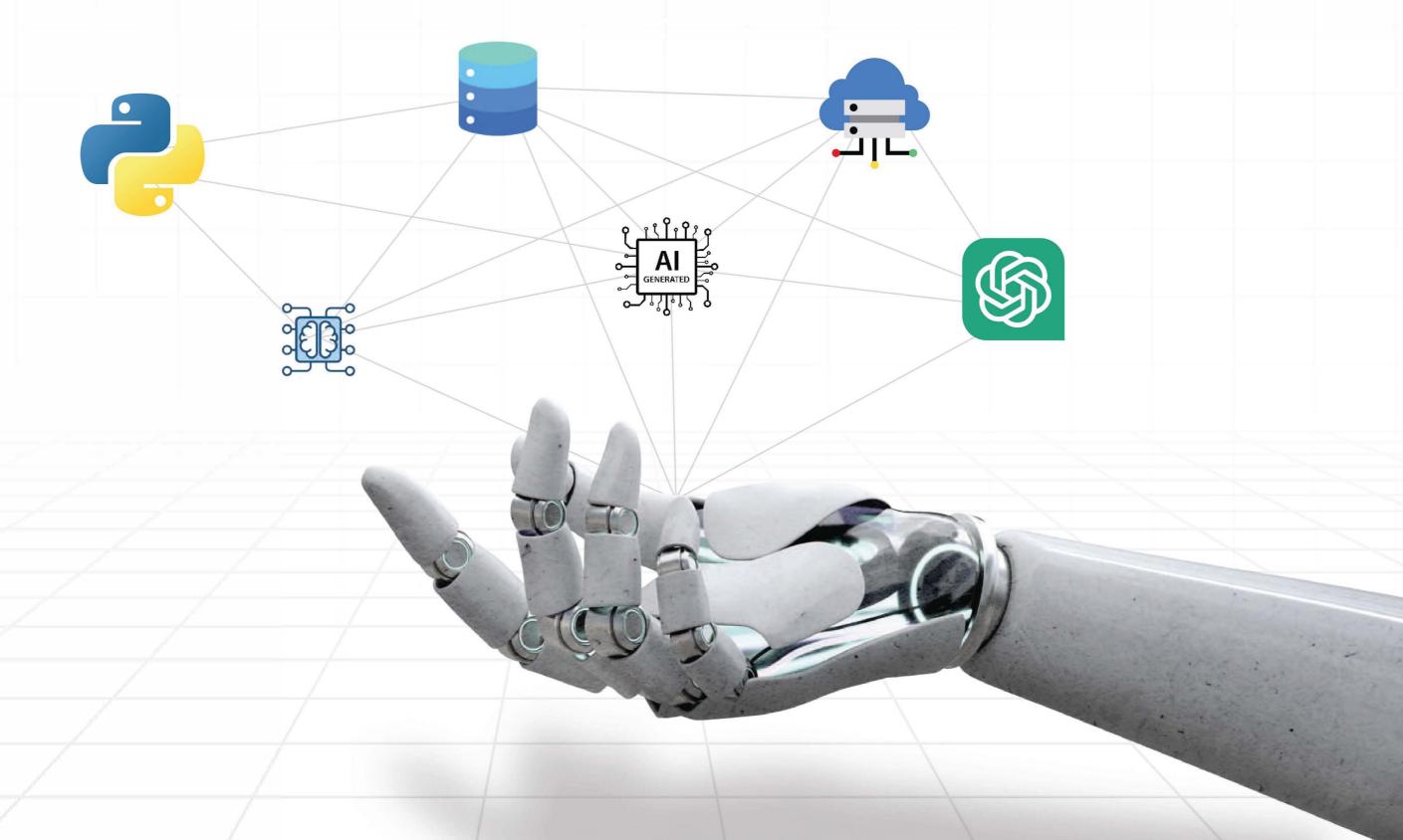
^{**}The policies and requirements regarding campus immersion, including the number of immersions a student must attend, are subject to review and final approval by IIT Jodhpur.



Program —

Outcomes

- Be able to use Python as well as the latest tools such as ChatGPT and Generative AI for building data engineering solutions
- Design and work with Modern Databases, Data Models and ETL Work Flows, write applications to manipulate data thereof
- Work with the latest Big Data Technologies, Ecosystems, and Architect end to end Data Systems and Infrastructures
- Design and Implement appropriate Storage and Processing Techniques for every type of big data across domains
- Deploy Data Mining Techniques to discover insights from big data, design and deploy scalable dashboards and insights infrastructures
- Create Cloud Data-based Warehouses, build Data Lakes and use Cloud Infrastructure for data wrangling and transformation, leverage cloud AI and ML services and design a deployment strategy for a Big Data application and implement it successfully
- Use Supervised and Unsupervised Learning Techniques to derive insights from Big Data
- ── Work on cloud environment to deploy models and utilize Cloud-based Infrastructure





Student

Journey



Submit your Application



Appear for the Pre-screening Test



Pay the Application Processing Fee



Receive your Offer Letter from IIT Jodhpur and Complete your Full Payment



Strengthen your Foundations through Futurense Bridge Courses



Begin your IIT Jodhpur PG Diploma Degree



Become an IIT Jodhpur PG Diploma Graduate





Post IIT Jodhpur PG Diploma

Complete MTech. Degree in Executive Mode in 1 year!

Enhance your professional growth by leveraging your academic credits from the PG Diploma Program and transfer to IIT Jodhpur's M.Tech Program in Executive Mode to unlock new career opportunities.*

Eligibility Criteria: Based on the PD's discretion and the graduating requirements.

Program Fee: ₹ 2,40,000**

For More Information: office_eep@iitj.ac.in

Students have preferred opting for M.Tech Degree after PG Diploma in Data Engineering to enhance their career growth in several ways

Deepens expertise for tackling complex data engineering challenges with confidence.

Enhances job market competitiveness, favoring candidates with advanced degrees.

^{**}For PGD candidates who want to upgrade to M.Tech delivered in Executive Mode



^{*}T&C Applies



Career

Opportunities in 2026

Potential Job Roles

Data Science Manager

AVERAGE SALARY

₹28L+

Data Scientist

AVERAGE SALARY

₹20L - ₹55L

Data Architect

AVERAGE SALARY

₹30L - ₹50L+

Data Mining

8

3

AVERAGE SALARY

₹25L+

Machine Learning Engineer

AVERAGE SALARY

₹25L - ₹50L+

Data Visualization
Specialist

AVERAGE SALARY

₹24L+

Business
Analyst Manager

AVERAGE SALARY

₹19L+

Big Data Developer

AVERAGE SALARY

₹17L+

Business Intelligence Analyst

AVERAGE SALARY

₹10L - ₹20L

Research Scientist

AVERAGE SALARY

₹11L+



^{*}Salary Source: Various legitimate websites

^{*}Futurense does not offer any employment



Potential Recruiters

World's leading companies are hiring for the most in-demand data job roles!









































& more

Tools Covered



































^{*}Futurense does not offer any employment



Bridge Courses

Prepare for your IIT Jodhpur PG Diploma in Data Engineering with the Futurense Bridge Course.

This foundational program, offered at **No Extra Cost**, equips you for success. It includes **Live Online Training** with **Industry Experts**. These interactive sessions provide valuable insights and knowledge. Beyond the live training, access **30+ Hours of Self-guided Learning Materials** to master core concepts. The course concludes with an assessment to validate your knowledge. With the Futurense Bridge Course, get ready to excel in your academic journey.

As students of Futurense executive education programs, you get exclusive access to our proprietary bridge courses. These have been carefully curated in partnership with IIT, industry veterans and our **Futurense Leadership Council**.

These courses offer a unique guided self-learning roadmap to get up to speed with the prerequisites of the courses and program you will be embarking upon.

Weekly 1 hours of live online training and 30+ hours of self guided learning

01 PROGRAMMING FOUNDATIONS

02—DATABASES WITH MYSQL

03—MATHS REFREHSER

04 CLOUD FOUNDATIONS

GEN AI, AGENTIC AI AND PROMPT ENGINEERING





Curriculum*

TRIMESTER 1

Data Analytics

- Applied Mathematics and Statistics
- Python Programming for Data Engineering
- Database and SQL Programming

Electives

- Fundamentals of Business and Data Analytics
- Fundamentals of Data Science
- Data Visualization and Dashboards
- Decision Science for Operations Management
- Data Mining and Warehousing

TRIMESTER 2

Data Science

- Web & Social Network Analysis
- Machine Learning
- Distributed Systems and Platforms

Electives

- Cloud Computing
- Optimization for Data Science
- Digital Marketing Analytics
- People Analytics
- Retail Analytics

TRIMESTER 3

Data Engineering

- Big Data: Storage, Processing and Management
- Advanced Data Engineering with Cloud

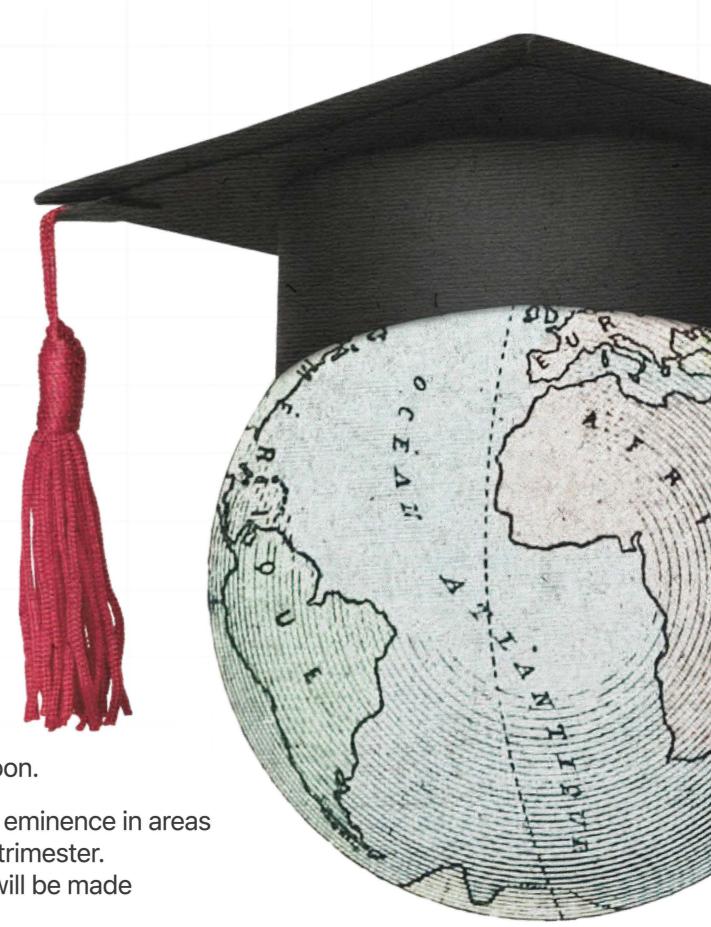
Electives

- Stream Processing and Analytics
- Deploying Data Solutions MLOps
- Financial Analytics

CAPSTONE PROJECT

*Curriculum under revision by IIT Jodhpur. Final updates will be shared soon.

Note: The electives list above is indicative. IIT Jodhpur is an institution of eminence in areas of emerging technologies and launches new courses dynamically every trimester. Therefore, the compulsory electives are updated on a regular basis and will be made available as per discretion of the faculty and Program Directors.





IIT Jodhpur

Campus Immersions

Campus immersion will be an essential element of the program experience, during which learners are required to attend campus activities and sessions at the IIT Jodhpur campus. There will be one immersion per academic year and will be conducted for 5 to 7 days. Attending one immersion is mandatory for students.

Learners will get a live classroom experience, with the opportunity to meet and learn in person from the esteemed faculty at IIT Jodhpur and engage in peer learning or presentations and project work. The immersion timetable will be set by IIT Jodhpur, and will be communicated to students in advance post onset of the program.

The policies and requirements regarding campus immersion, including the number of immersions a student must attend, are subject to review and final approval by IIT Jodhpur. While it is currently planned that students must attend at least one immersion program per academic year, these policies may be revised based on resource availability at IIT Jodhpur. Any changes will be communicated accordingly. The institution reserves the right to modify, update, or amend the immersion attendance requirements based on academic, administrative, or regulatory considerations.

























Program Directors



PROF. DIP SANKAR BANERJEE

Prof. Dip Sankar Banerjee
Associate Professor

Associate Professor

IIT Jodhpur

Prof. Dip Sankar Banerjee is an Associate Professor at IIT Jodhpur since December 2020. He completed his PhD. in Computer Science and Engineering from the Indian Institute of Information Technology Hyderabad in 2014. He was a postdoc at the Ohio State University from 2015–2016. His research interests are broadly in the area of High Performance Computing, Computing Systems, Computer Architecture, and Data Analytics.



PROF. SUBHASH BHAGAT

Prof. Subhash Bhagat

Assistant Professor Department of Mathematics IIT Jodhpur

Prof. Subhash is an Assistant Professor in the Department of Mathematics at IIT Jodhpur in Rajasthan, India. Prior to this position, he held postdoctoral fellowships at the University of Quebec in Outaouais and the University of Ottawa in Canada. He received his PhD. from the Advanced Computing and Microelectronics Unit at the Indian Statistical Institute in Kolkata under the supervision of Prof. Krishnendu Mukhopadhyaya. His research interests are in the areas of distributed systems and algorithms, specifically focused on distributed algorithms for Swarm Robots and Autonomous Multi-Agent systems, Internet of Robotic Things (IoRT), autonomous mobile robotic sensors, and security in distributed computing.





Esteemed Advisors



Dr. Jagdip Singh

PhD Co-Director

Master of Business Analytics and Intelligence



Dr. Jagdip Singh, PhD., is a globally recognized expert in organizational frontline effectiveness. He has been honored with prestigious awards, including the Weatherhead School of Management's Research Recognition Award and the University's Faculty Distinguished Research award. With a focus on customer connections, Jagdip has made enduring contributions to the field. He co-founded the interdisciplinary "Organizational Frontlines Research" initiative and has received accolades for his reviewing efforts from esteemed journals.



Dr. Kamlesh Mathur

PhD Co-Director, Master of Business Analytics and Intelligence



Dr. Kamlesh Mathur, PhD., is an expert in supply chain logistics, focusing on the distribution aspects of the supply chain and its impact on business operations. His research addresses efficient routing and scheduling of delivery vehicles, leading to significant cost savings. He also studies the optimal location of claim and service centers for enhanced efficiency and effectiveness. Dr. Mathur's work has been published in esteemed journals such as Transportation Science, Computers and Operations Research, and European Journal of Operations Research. As a faculty member at the Weatherhead School of Management, he teaches courses on Business Statistics, Quantitative Analysis, Computer Simulation, and Supply Chain Logistics



Futurense

Leadership Council





Divesh Singla
Vice President, Global
Operations and Head, APAC
SIGNANT HEALTH



Alok Tiwari

Director Of Analytics

JUNGLEE



Anand Das
Chief Digital & Al Officer

TVS



Kaushik Das
Managing Director

JCPenney



Anupam Gupta
Independent ConsultantAI/ML Product Development

iiiiiii amplifyhealth



Ankit Mogra

Director - Insights & Analytics

ATHER



Nitin Srivastava
Global Head of Data
and Analytics
Drawers



Muthumari S
Global Head of
Data & Al Studio

brillo



Shrisha Ray
Director of Engineering

THOMSON REUTERS



Aditya Khandekar
President
Corridor Platforms



Ishu Jain
Head Of Central Analytics

Myntra



Pankaj Rai
Group Chief Data
and Analytics Officer



Nithya Subramanian
Senior Director Data
and AI COE

BEST
BUY



Pankaj Srivastava
Partner

pwc



Saurabh Agarwal
Chief Executive Officer

DAIOM



Satyakam Mohanty
Founder & Managing Partner

Wyser

Group Holding



Supria Dhanda
Co-Founder &
Managing Partner

Wyser



Madhu Hosadurga
Global Vice President,
Enterprise Al

Schneider
Electric



Saurabh Kumar
Director - Data Engineering



Sharmistha
Chaterjee
Head of Software and
Systems Engineering



A V Rahul

Director, Analytics

Barracuda





Arvind Balasundram
Executive Director, Commercial
Insights & Analytics

REGENERON



Ashish Dabas
Vice President

Capital One



Praveen Sathyadev

Head Business Growth (VP) Analytics, Insights and AI

Course5
Transformative intelligence



Swati Jain
Partner - Digital,
Al & Analytics

Deloitte.



Bhargab Dutta
Chief Digital Officer

CENTURYPLY®



Srini Oduru

Head of IT Delivery and Operations

Cervello



Akshay Kumar
Research & Analytics Leader

Gallagher



Anirban Nandi
Head of Al Products &
Analytics (Vice President)

Rakuten



Indrani Goswami
Associate Director



Vishal Nagpal
Director of Data and AI
BEST
BUY.



Tushar Sahu
Director Engineering
Google



Sumon Mal
Director Engineering



Monica S Pirgal
Chief Executive Officer



Deepa Mahesh
Head - Analytics,BPS

Tech
Mahindra



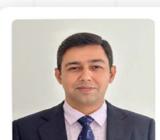
Krithika
Muthukrishnan
Chief Data Science Officer
scripbox



Madhurima Agarwal

Managing Director
Microsoft for Startups

Microsoft



Tushar Chahal
Chief Technology Officer

Numisma Bank



Ruchika Singh
Director, Data Science
& Insights
Spotify



Sulabh Jain
Chief Analytics Officer

IMPACT
ANALYTICS



Gaurav Srivastava
Analytics Business
Intelligence Leader

amazon



Arpit Agarwal
Data Science Manager
Google



George Joseph
Global head of analytics,
customer experience support operations
Uber



Pramod Rawat
Director
WELLS
FARGO



Vidhi Chugh
Head of AI

ALL ABOUT SCALE

& Many More...



Program Details

DURATION

12 Months | 330 Hours

PROGRAMME COMMENCEMENT

January 2026 (Tentative)

PROGRAMME FEE

Course Fee: ₹3,35,000

(Including ₹10,000 Application Processing Fees)

(The Application Processing Fee is included in and adjusted with the course fees, which must be paid at the time of completing the application. If the application is not accepted by IIT Jodhpur or Futurense, this amount will be fully refunded. However, if the student withdraws or drops out for any reason after the application is accepted, this amount is strictly non-refundable).

Administrative Fee: ₹20,000 (This includes lodging, meals excluded and is separate from course fees.)

*No refunds post the last date of registration. Fees are subject to change based on the institute's current policy.

☆ TOTAL CREDITS

35

& LEARNING MODE

Live Online Sessions
Once per academic year for 5-7 days

R PROGRAM SCHEDULE

Friday, Saturday and Sunday

The class schedule will be determined by IIT Jodhpur and is scheduled to take place on Fridays (late evenings), Saturdays, and Sundays, subject to the availability of the faculty.



Cohort

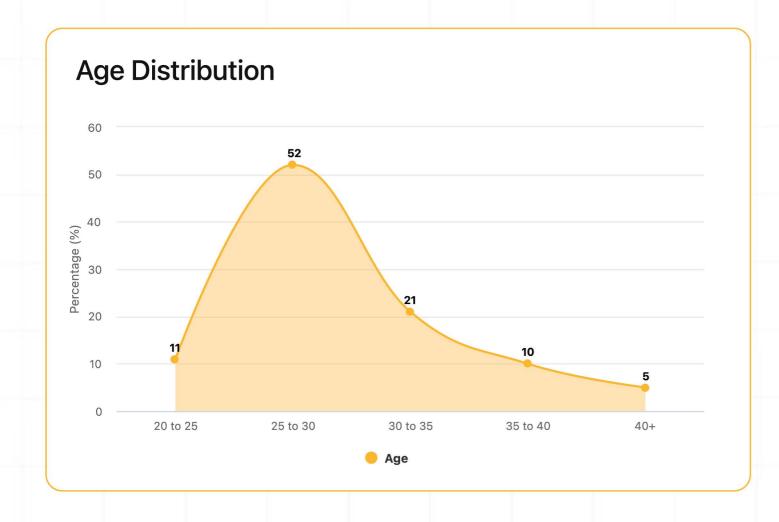
Demographics & Profile

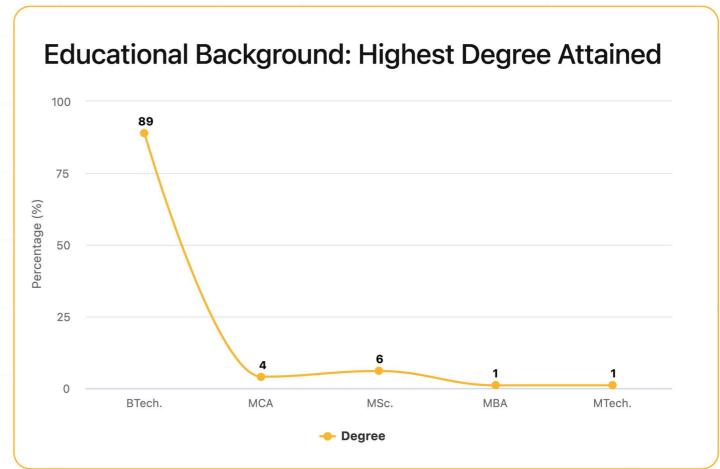
Cohort Overview

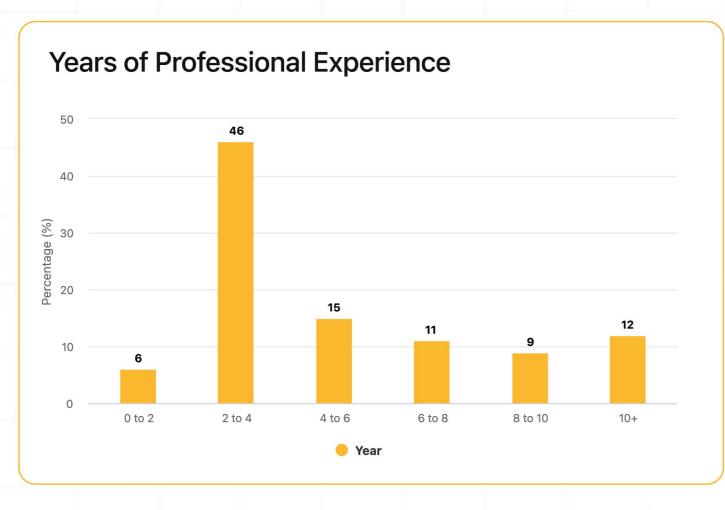
Average Years of Experience: 4.5 Years

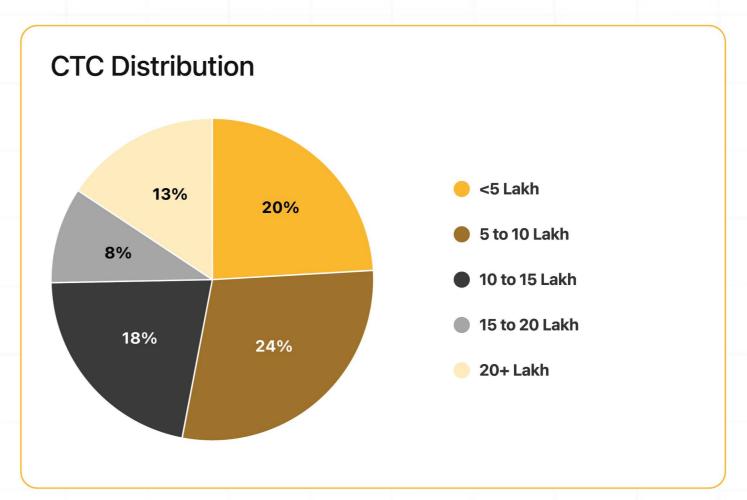
Average Age: 29.3 Years

Average CTC: ₹13 Lakh









Previous Companies





























and more

^{*}Futurense does not offer any employment



Strategic Futurense Career Support

Your Career Success

Unlock unparalleled opportunities and elevate your career with Futurense's tailored career assistance program.



Professional Certification in Generative AI and LLM Applications AI

Gain cutting-edge skills with our comprehensive GenAl course, an equal blend of technology and practical application, and earn a prestigious certificate upon completion, worth ₹1.49 Lakhs.



Mock Interviews and Mentor Connects

Mirror real-world job scenarios with our mock interviews, and gain personalized guidance from industry mentors to navigate your career path with confidence.



Tech Titan Webinars

Connect with Industry experts, participate in interactive sessions, and ask your questions directly. Learn from the best through Tech Titan Webinars, featuring invaluable insights and knowledge from leading industry leaders who are shaping the future of technology.



LinkedIn Optimization

Stand out in the professional world with Futurense's expert LinkedIn optimization strategies that highlight your unique skills and experiences.



Resume Support

Receive personalized resume support to craft a standout CV that effectively showcases your strengths and achievements, ensuring you capture the attention of recruiters.



Exclusive Interview Playbook

Access our exclusive interview playbooks filled with insider tips, common interview questions, and sample answers to help you ace your job applications and make a lasting impression on employers.





About Jodhpur



The Indian Institute of Technology Jodhpur was founded in 2008 with a focus on technology education and research to promote the economic development of India. Its permanent campus is spread over 852 acres and has state-of-the-art facilities for research and academic activities. The institute is committed to a multidisciplinary approach to technology development and has organized its degree programs through departments and research activities through centers for technologies.

In addition to its focus on traditional education, IIT Jodhpur has been actively pursuing programs in executive mode for working professionals. The institute has been leveraging its academic expertise, industry collaborations, and infrastructure to create a range of high-quality programs that cater to the needs of today's professionals. Its faculty members, with extensive industry experience and academic expertise, bring a unique blend of theoretical knowledge and practical experience to the classroom.

To establish itself as a leader industry aligned programs for professionals, IIT Jodhpur has been developing programs that are relevant and contemporary to the evolving needs of the industry. It has also established strong industry linkages to develop customized programs that cater to the specific needs of their employees. The institute has invested in state-of-the-art infrastructure, modern classrooms, well-equipped labs, a vast collection of books and research papers in the library, and online learning platforms and tools to provide an immersive learning experience to the participants.



About

Futurense Technologies

is India's fastest-growing AI-skilling Futurense Company, dedicated to accelerating India's role in global AI development.

With projections from the EY's "India@100" report, indicating that 24.3% of the Incremental Global Workforce over the next decade will be Indians by 2030, we are committed to positioning India at the forefront of Al evolution.









Our mission is to scientifically map AI talent demand and create scalable, industry-aligned upskilling models that equip Indian professionals with cutting-edge capabilities. By integrating real-world applications with academic excellence, we are building tomorrow's leaders across every possible funnel, shaping the talent that will define tomorrow.

3M+ Learner Community

+ University Collaborations

+ IIT/IIM Partnerships

75K+ Careers Transformed

Mentors & Experts 4 1 1 + Futurense Team Strength

Trusted Hiring Partners

































































and many more...





Let's get in Touch

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