IIT Jodhpur BS./BSc. in
Applied AI and Data Science

DELIVERED 100% ONLINE

A New-Gen Degree For

Ambition Driven Candidates

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*The information provided in the brochure is official and final and supersedes all other information either exchanged or perceived.

Message from —
The Director

"

"Our present age requires creative solutions to pressing problems of human rights, sustainable development and global well being. This means thinking out of the box and moving away from traditional models of school education, which reward rote learning and kill the innate creativity of children. Therefore, our vision is to equip learners enrolled for the **BS./BSc. in Applied AI and Data Science** program with the necessary modern skills and competencies to participate in a rapidly transforming global knowledge ecosystem that is being shaped drastically by technologies such as artificial intelligence "

Prof. Avinash Kumar Agarwal
Director, IIT Jodhpur

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.

Introduction —

About IIT Jodhpur

Founded in 2008, Indian Institute of Technology Jodhpur (IIT Jodhpur) stands at the forefront of advancing technology education and research in India. IIT Jodhpur is driven by a mission to merge technological innovation with action - also leading the AI revolution in one of the country's most revered institutions. Their core focuses are excellence in education, pioneering research, and industry relevance.

IIT Jodhpur focuses on excellence in education and research, adopting a multidisciplinary strategy with cutting-edge labs for fundamental research and specialised Departments and Centers for Technologies. With a forward-facing approach on all forms of technological development, IIT Jodhpur is leading Artificial Intelligence and Data Science research in all dimensions: theoretical research, application directed research, and locally relevant research for meeting regional needs.

About BS./BSc. in Applied AI and Data Science

We believe AI is the future of all work. That's why we at Futurense Technologies have partnered with the Indian Institute of Technology Jodhpur (IIT Jodhpur), known for offering AI programs, to launch this Fully Online Bachelor of Science (BS./BSc.) degree program in Applied AI and Data Science.

We believe every single person deserves to have stellar AI education. Our fully online initiative allows everyone from all regions to remotely learn advanced AI and data science skills from IIT Jodhpur. This program offers a flexible, stackable certification-diploma-degree model that culminates in a BS./BSc. degree with a specialisation. Our curriculum focuses on real-world solutions to answer to the high demand for AI proficiency across sectors, combining IIT Jodhpur's academic rigour with industry insights from over 30 leaders in the Futurense Leadership Council.

Our goal is to create a vast pool of 'Power AI Users,' and empower graduates to fulfil their true potential in roles such as AI Application Engineers, Data Scientists, and more — or simply level up in their own field. Whether you like it or not, the AI revolution is here. Are you ready to get ready for it?

AI is the —
Future

Artificial Intelligence (AI) is reshaping the world as we know it. From automating routine tasks to solving complex problems, AI is not just an emerging technology—it's a foundational shift affecting every corner of the industry.

Forbes

With the AI market size projected to surge to
$267 billion
by 2027,
growing at an annual rate of 33.2% (Forbes), the message is clear

$267 billion

AI champions are those who harness its power to unlock new possibilities. Consider how AI in healthcare has not only slashed diagnostic errors by up to **50%** but also trimmed operational costs by **30%**. These are the winners of the AI era—individuals and businesses poised to lead with insight, efficiency, and agility.

The flip side?

A stark reality where 75% of businesses risk sliding into irrelevance by ignoring AI advancements.
. The gap between the AI-savvy and the uninitiated is widening, turning the latter into bystanders in their industries.
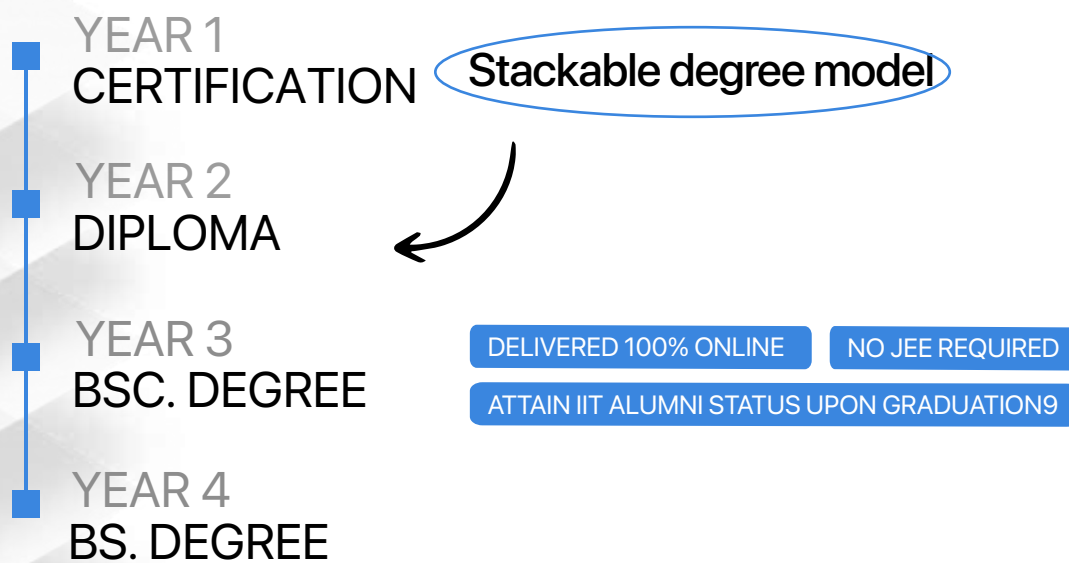
McKinsey & Company

The future belongs to those who prepare for it today. AI is not just a tool, it's a gateway to becoming a champion in your field.

Will you lead as a victor, or will you watch from the sidelines?

Program —
Overview

■ BS./BSc. Degree from IIT Jodhpur

YEAR 1
CERTIFICATION

(Stackable degree model)

YEAR 2
DIPLOMA

YEAR 3
BSC. DEGREE

DELIVERED 100% ONLINE   NO JEE REQUIRED

ATTAIN IIT ALUMNI STATUS UPON GRADUATION9

YEAR 4
BS. DEGREE

How would your —
week look like?

TYPICAL WEEK OF A STUDENT						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Self-Paced Learning with Videos lectures, Quizzes and Assignments				LIVE online lectures by IIT and Industry Practitioners Masterclasses from CXOs and MAANG Industry leaders Assessments and Projects		

*Only for students who complete BSc./BS. degree.

*All semester ending final exams will be conducted in offline exam center as identified and specified by IIT Jodhpur.

Add-on Degree Model

Step into a unique opportunity with the add-on degree model, where you'll earn both your undergraduate degree from your home university and a prestigious BS./BSc. in Applied AI and Data Science from IIT Jodhpur. Graduate with dual credentials that elevate your academic profile and position you at the forefront of the AI industry.

Every year is its own win

Things change sometimes. We empower you with a multiple exit system to level up at every step of the program with a stackable degree model compliant with NEP guidelines. Each year has two semesters to gain a new accolade.

Year 01	Year 02	Year 03	Year 04
Complete an IIT Jodhpur Certification Program	Complete an IIT Jodhpur Diploma Program	Complete IIT Jodhpur's BSc. Degree Program	Complete IIT Jodhpur's BS. Degree Program with an Applied AI / Computational Science path
40 Credits	Total 80 credits	Total 120 credits	Total 160 credits

Join the ranks of visionary IIT alumni

With this program, you will be a part of one of the most elite student communities in India of IITians. You will earn a BS./BSc. Degree from IIT Jodhpur. Post completion, you will be eligible for an IIT Jodhpur Alumni Status, and reap all the benefits of a traditional IIT cohort.

- Network and build connections with your cohort across the country
- Attend IIT Alumni community events
- Network with industry experts at the forefront of tech, business and more
- Gain the sought-after IIT-ian Tag

Program —
Highlights

◼ IIT Degree and Alumni Status*

Fulfil your dream of being an IITian with a globally recognized Bachelor's degree. Gain access to top companies like Microsoft, Google, Meta, and more. With the IIT badge, become part of a lifelong network of industry leaders.

◼ Stackable Degree Model

Pursue a stackable certification-diploma-degree model aligned with the National Education Policy. Earn a Certification after Year-1, a Diploma after Year-2, and a BSc. Degree after Year-3, An optional BS. Degree after Year-4.

◼ Blended Learning and Multi-Lingual Teaching

Learn asynchronously from top IIT faculty during weekdays and participate in live sessions with expert practitioners in Hindi/English/Hinglish. Gain hands-on experience through industrial expertise sessions.

◼ Master 100+ AI Tools

Master over 100 cutting-edge AI tools and become an AI power user. Progress from entry-level roles to specialised domains like Data Science and NLP. Learn secret AI tools like Devin AI, Claude, and more.

◼ Masterclasses by Industry Experts

Gain insights from CXOs and MAANG Leaders through masterclasses. Learn real-world experiences and cutting-edge practices.

◼ Direct Admission to Masters**

Post your BS. degree, get opportunity to enrol to Masters at IITs and Top US Universities without entrance exams. This pathway is a testament to the quality and rigour of our BS. program.

◼ Graduate with a Add-on Degree

Earn both your undergraduate degree from home university and a prestigious BS./BSc. degree in Applied AI and Data Science from IIT Jodhpur.

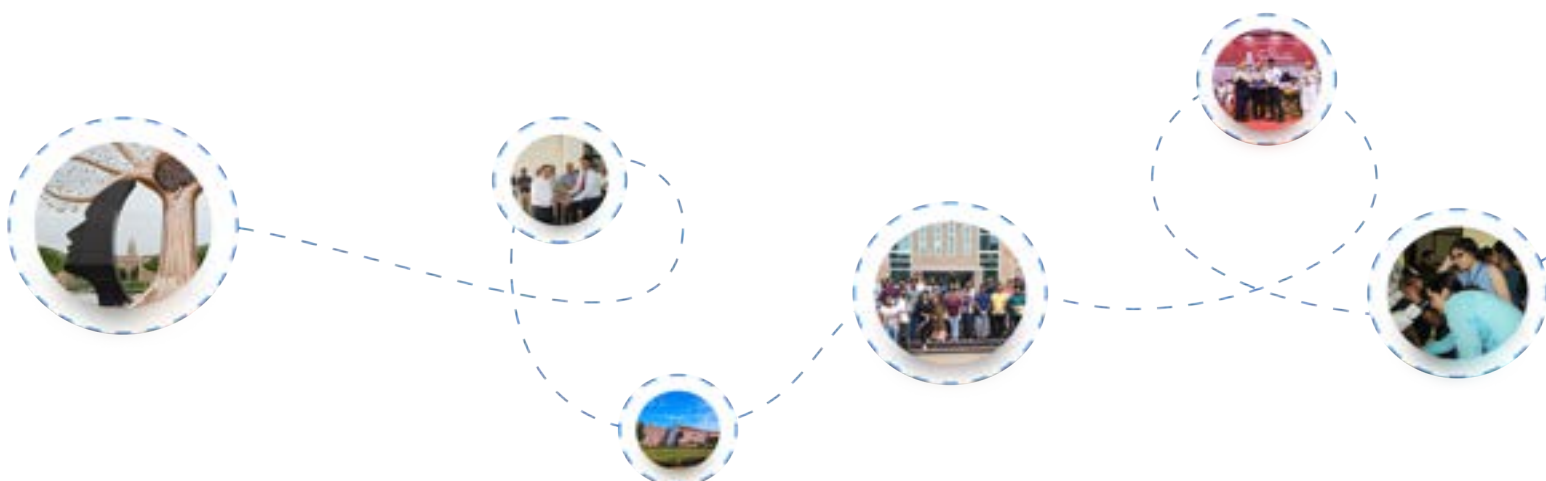*Only for students who complete BSc./BS. degree.

**Provided that the students passes the eligibility criteria of completion of BS. degree, minimum 60% in UG and minimum 2 years of work experience.

Campus —
Immersions

Campus immersion is a unique element of this program, offering learners an optional opportunity to attend sessions on the IIT Jodhpur campus for 3-5 days each academic year. 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 IITJodhpur, 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. Students can join only if IIT Jodhpur has the capacity to facilitate the 3 - 5 days campus immersion. 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.

Student ———

Dynamic Learning Experience

▌Tech House Showdown

Engage, Compete, & Learn

Compete with India's sharpest minds, challenging each other to reach new levels of skill and innovation. Engage in high-stakes House Wars, where every debate, speech, and pitch is a battle of intellect, all for the prestigious House of the Year award. This isn't just a competition, it's a journey of intense networking, peer-to-peer learning, and brainstorming with some of the most talented minds in the country.

▌Makeathons

Build and Innovate

Take on real-world challenges and develop impactful prototypes or proofs of concept. Every 6 months, we bring you high-energy, remote Makeathon events focused on themes like Technical, Entrepreneurial, or Technopreneurial, tailored to your current stage in the learning journey. This is your chance to build something extraordinary—something you can pitch to investors and use to launch your entrepreneurial journey.

▌Futurense Zonal Meetups

Maximize Your Experience

Imagine being mentored by leaders from top Fortune 500 companies, giving you insider knowledge on the latest in technology. This is your rare opportunity to meet and connect with Futurense leaders through the exclusive Futurense Leadership Council. Conducted every 6 months, these meetups bring you face to face with industry experts, where you'll gain valuable insights, and engage in real, meaningful conversations that can shape your future.

futurense
leadership
council

FORTUNE 500 COMPANIES

Get ready for exciting panel discussions on the latest industry trends, with top voices sharing their personal journeys, growth stories, and tips on how AI is transforming the market. Enjoy fun sessions with popular YouTube influencers and Stand-up comedians, and compete for thrilling prizes and awards as a top performer. Be part of something truly informative, fun, and unforgettable!

Student —

Dynamic Learning Experience

■ Master Applied AI

Learn, Unlearn & Relearn

Ready to become an AI power user? Go from knowing just a couple of tools to mastering 100+ tools like Perplexity, Merlin AI, Claude AI, Microsoft Copilot, Gemini AI, Llama, and many others that you might not have even heard of yet. These hands-on sessions, led by Futurense Industry Practitioners, are held on weekends, focused on applied AI and other advanced topics, so you're always in the loop and ready for what's coming next.

perplexity

✳ Claude

Merlin

and many more

Copilot

Gemini

■ Collaborative Synergy

Learners of Today, Leaders of Tomorrow

Join a community that's more than just a network, it's your partner in continuous learning and career growth. Connect with Alumni, Peers, and the Humans of Futurense. Engage in exciting games, pop quizzes, and many other activities, all while building connections that last a lifetime.

THE BEST PART? Your connection doesn't end at graduation. You'll have continuous access to Futurense's webinars, podcasts, and panel discussions, keeping you in the loop and ahead in your field, whether you're just getting started or well into your professional journey. This community is here for the long run, ensuring you have the support and resources you need, wherever your career takes you.
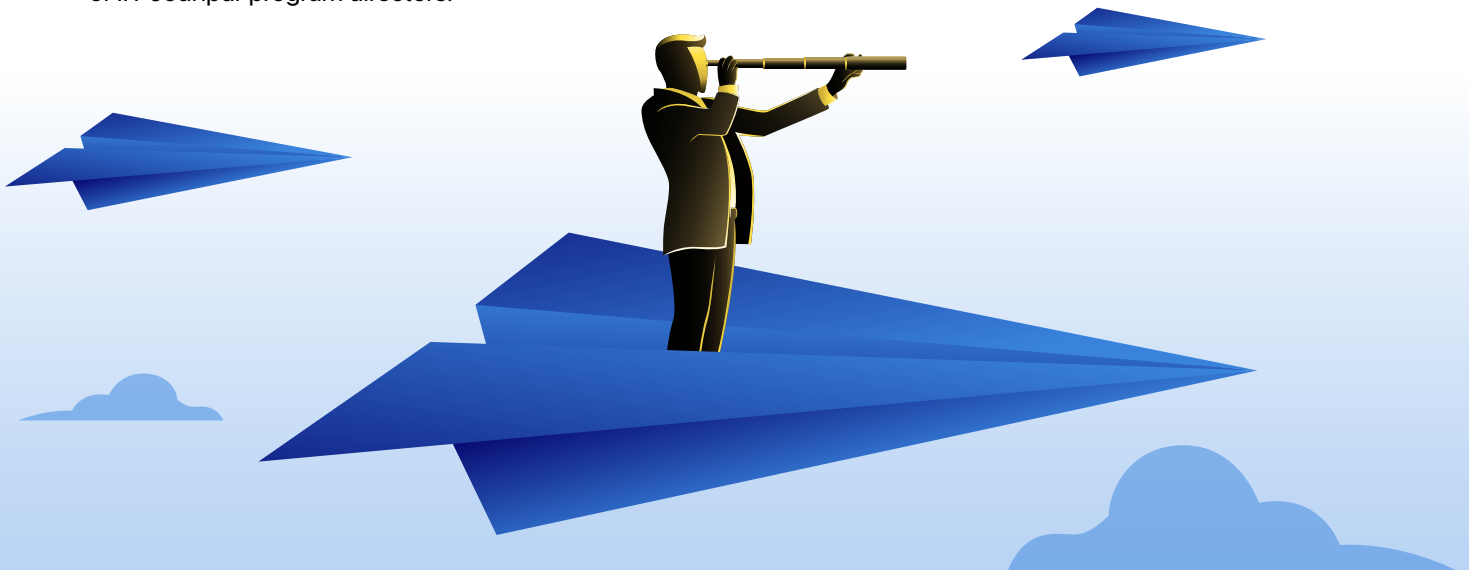
A Perfect Path for Every Aspiration

	Aspiring Learners	Career Advancers	Dual Achievers
Audience	12th Pass Students seeking a **Career in AI**	**Working Professionals** who want to **Upskill**	Students seeking an **Add-on Degree**
Benefit	Gain IIT degree **without JEE hurdle**	**Enhance** your **CV** with IIT degree and get access to **Best Alumni Network**	A second chance at **IIT dream** alongside ongoing education
Focus	Strong AI foundation with **100+ AI Tools**	Flexible, industry-aligned **AI Curriculum**	Cutting-edge **AI Knowledge, Career services**
Futurense Career Support	AI Insights, Job Role Mapping, Interview Prep	Real-world Projects, Masterclasses, Leadership Path	Navigate AI Job Market, Top Roles in AI
Future Path	Pursue **Master's at IITs or Top US Universities**	Immediate value in current role, Leadership in AI	Master's program at top IITs & US universities meeting the eligibility criteria - BS. degree, 60% in UG, & 2 years work experience.

Eligibility

- Candidates must have secured a minimum of 60% in the 10+2 examination, with Mathematics as a mandatory subject in Class 12.

- Candidates must pass a qualifying exam conducted at the beginning of the application process.

- If a candidate does not meet the 60% requirement but has qualified for JEE Main, they may still be eligible at the discretion of IIT Jodhpur program directors.

Comparison between —

Traditional BTech. & IIT Jodhpur's BSc.

Traditional Learning Model	World's First Agile-Driven Undergraduate Degree
Earn a regular Bachelor's degree	Earn an IIT Bachelor's degree and prestigious alumni status
Become a generic engineer when you graduate	Stand out with India's only AI-driven undergraduate program
Invest time in writing assignments and mundane exercises	Learn current-gen skills like content creation and build your portfolio
MTech. degree via GATE only	Admission to PGD and MTech. by IIT Jodhpur without GATE post your BS. degree*
No global immersion or study abroad opportunities	Study abroad with Futurense US Pathway after your BS. degree
Limited industry professors	Trained by top IIT faculty & leading industry experts

* Provided you have scored above 60% in BS and completed 2 years of work experience

Student —
Curriculum

Course Matrix BS./BSc. Applied AI and Data Science

YEAR	Semester	Course Name	Some Outcome Job Roles
CERTIFICATION I	1	1. Linear Algebra and Numerical Analysis 2. Foundations of Statistics and Probability 3. Algorithmic Thinking and Its Applications 4. Basics of Data Analytics	• AI Powered Office Assistant • Data and Research Analyst • Junior Business Analyst
	2	1. Numerical Optimization 2. Foundations of AI 3. Visualization and Storytelling with Data 4. Generative AI tools	
DIPLOMA II	1	1. Pattern Recognition Principles 2. Machine Learning 3. AI Programming 4. Generative AI	• Data Analyst • Data Engineer • Junior Data Scientist
	2	1. Machine Learning Applications 2. Basics of Data Mining 3. Foundations of Data Engineering 4. Tools for Data Science	
BSC. DEGREE III	1	1. Machine Learning 2 (Deep Learning) 2. Foundations of NLP 3. Computer Vision 4. Data Security and Ethics	• Domain AI Application Job • NLP Application Engineer • Computer Vision Application Engineer • Data Scientist
	2	1. Machine Learning Applications (Domain based use cases) 2. LLM and Prompt Engineering 3. Reinforcement Learning 4. Conversational AI	

*All semester ending final exams will be conducted in offline Exam Centers as identified and specified by IIT Jodhpur.
*Courses are indicative and may change based on discretion of Program Directors and industry requirements.

Curriculum

■ Course Matrix BS./BSc. Applied AI and Data Science

YEAR 4 CAREER TRACK 1: APPLIED AI CAREER PATH

YEAR	Semester	Course Name	Some Outcome Job Roles
IV (BS. DEGREE)	1	1. Project Management Principles 2. Software Engineering 3. Design Thinking and Complex Problem Solving 4. Live Project – Initiation	• AI Application Engineer • Generative AI Application Engineer
	2	1. Live Project – Applied AI Capstone Work Product	

YEAR 4 CAREER TRACK 2: COMPUTATIONAL SCIENCE RESEARCH PATH

YEAR	Semester	Course Name	Some Outcome Job Roles
IV (BS. DEGREE)	1	1. Probability and Statistics 2. Linear Algebra 3. Calculus and Optimization 4. Programming, Data Structures and Algorithms	• Research Track
	2	1. Database Management and Warehousing 2. Machine Learning 3. AI 4. Thesis	

*All semester ending final exams will be conducted in offline Exam Centers as identified and specified by IIT Jodhpur.
*Courses are indicative and may change based on discretion of Program Directors and industry requirements.

Program —
Directors

Prof. Dip Sankar Banerjee
Associate Professor, Department of Computer Science & Engineering
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.
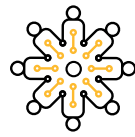
Prof. Anand Mishra
Assistant Professor, Department of Computer Science & Engineering
IIT Jodhpur

Prof. Anand Mishra is an esteemed researcher specializing in computer vision, machine learning, and AI at the intersection of vision and language. He is currently an Assistant Professor in the Department of CSE at IIT Jodhpur, where he focuses on advancing scene text recognition, multimodal AI, and knowledge-aware computer vision. Before joining IIT Jodhpur, he earned his Ph.D. from IIIT Hyderabad in 2016 and worked as a Postdoctoral Researcher at IISc Bangalore. His contributions include several peer-reviewed research publications in top-tier conferences such as AAAI, EMNLP, and CVPR. Prof. Mishra has received the Microsoft Academic Partnership Grant (MAPG) and actively serves as a reviewer for leading AI and computer vision conferences.

Learn from the
Masters

**futurense
leadership
council**

Get Industry Insights and Mentorship from Top Leaders Across Various Domains

Divesh Singla
Vice President, Global
Operations and Head, APAC
SIGNANT HEALTH
THE EVIDENCE GENERATION COMPANY

Kaushik Das
Transformation | Strategy |
Operations | Analytics
gianteagle

Nithya Subramanian
Head of Data & Analytics -
AMEA
Kellanova

Anupam Gupta
VP Enterprise Data and
Analytics
UNITEDHEALTH GROUP

Pankaj Rai
Group Chief Data and
Analytics Officer

Ishu Jain
Head Of Central Analytics
SWIGGY

Nitin Srivastava
Data & Analytics India Lead
Advance Auto Parts

Shrisha Ray
Director of
Engineering
THOMSON REUTERS

A V Rahul
Director, Analytics
Walmart

Ankit Mogra
Director - BI &
Analytics
ATHER

Saurabh Agarwal
Chief Executive
Officer
DAiOM

Madhu Hosadurga
Global Vice President,
Enterprise AI
Schneider Electric

Anand Das
Chief Digital & AI Officer
TVS

Ashish Dabas
Vice President
CapitalOne

Bhargab Dutta
Chief Digital Officer
CENTURYPLY

Alok Tiwari
Director Of Analytics
OLA ELECTRIC

Tushar Sahu
Director Engineering
Google

Aditya Khandekar
President
Corridor Platforms

Pankaj Srivastava
SVP - Head of Credit Analysis
Unit Offshore
HSBC

Anirban Nandi
Head of AI Products &
Analytics (Vice President)
Rakuten

Supria Dhanda
Co-Founder & Managing
Partner
wyser

Who is this ——
Program For?

12th pass with 60% in 10+2 board exam & Mathematics as a subject)
01

Individuals willing to pursue an Add-on degree alongside their primary degree
02

Working professionals seeking to upskill and get a degree in Applied AI
03

* Candidates must pass the Qualifying test to be accepted for admission.
* If a candidate does not have the pre-requisite 60% in 10+2 board examination, but has qualified for JEE Main examination, they will be eligible for the program.
* The allowed percentage for SC/ST Caste Category is 55% and for OBC it is 60% provided you submit your Caste Certificate for verification during the application process.

Futurense Career Assistance:
Our 4 Step Assistance

Profiling
We will understand your expertise and help you craft the perfect profile.

Job Role Mapping
We will align your profile with the job role that's just perfect for both you and the employer.

Interview Preparation
We have devised exclusive Interview Prep Mini Courses and mock interviews just for you!

Feedback & Review
We gather feedback from interviewers and provide timely reviews to make your candidature 10x better!

Student Career —
Pathways

Post Graduation, Your Future is Secure with 3 Stellar Options

MASTERS FROM IIT JODHPUR*

- Seamlessly transition to MTech in Data Engineering at IIT Jodhpur
- Enrollment in prestigious programs, no GATE examination required
- Equip yourself with skills demanded by global industries for leadership in the digital era

STUDY ABROAD POST YOUR BS DEGREE

- Pursue Master's at over 50 esteemed US universities, including DePaul, Rutgers, and Drexel
- Choose from diverse STEM-designated specializations
- Benefit from a 3-year OPT post-completion of your Master's program in the US

BUILD A COMPETITIVE EDGE FOR TOP AI JOBS

- Leverage Futurense's extensive expertise in understanding of job role competencies through its network of Fortune 500 companies, unicorns, and startups
- Access exclusive career opportunities tailored to match your skills and aspirations

*Provided that the students passes the eligibility criteria of completion of BS. degree, minimum 60% in UG and minimum 2 years of work experience.

The road ahead

This is what your application journey looks like

#01
Apply

#02
Shortlisting

#03
Qualifying Test

#04
Application Approval

#05
Offer Letter from IIT Jodhpur

#06
Full Payment

#07
Strengthen your Foundations through the Futurense Bridge Course

#08
Kick off your IIT Jodhpur journey!

Fees —
Structure

PROGRAM FEE (PER YEAR)	REGISTRATION FEE (ONE TIME)	FINAL ENROLLMENT FEE (ONE TIME)	ADMINISTRATIVE FEE
INR 1,09,000/-	INR 5,000/-	INR 5,000/-	INR 8,000/-
All Fees directly paid to IIT Jodhpur	(Non-refundable) and to be paid in Year 1 during Application Process	(Non-refundable) and to be paid in Year 1 after Offer Letter Acceptance	INR 5,000 - Annual Examination Fee (Per Year) INR 3,000 Convocation Fee (One Time)

Note: —

- *Additional Immersion Fees (₹4500 - ₹7500 for 3-5 days), including accommodation and food, are **NOT** included in the program fees and must be paid directly to IIT Jodhpur.*
- *Loan options are available and provided through Futurense Partners.*
- *If a learner does not pass a course or misses evaluation components due to any unforeseen events, students will have to reappear the exam/ repeat the course as per IIT Jodhpur norms and policies.*

Get in —
Touch

Indian Institute of Technology Jodhpur, NH62 Nagaur Road Karwar 342030, Jodhpur, Rajasthan, India.

+91 91136 11205, +91 92665 86500

iitj.bsbsc@futurense.com

futurense.com/uni/bsc