



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

DELIVERED 100% ONLINE

A New-Gen Degree For

Ambition Driven Candidates

Apply Now



Futureense.uni
Admissions and Industry Partner

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



Message from — **The Director**



Prof. Avinash Kumar Agarwal
Director, IIT Jodhpur

“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 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 Futureense 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 Futureense 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

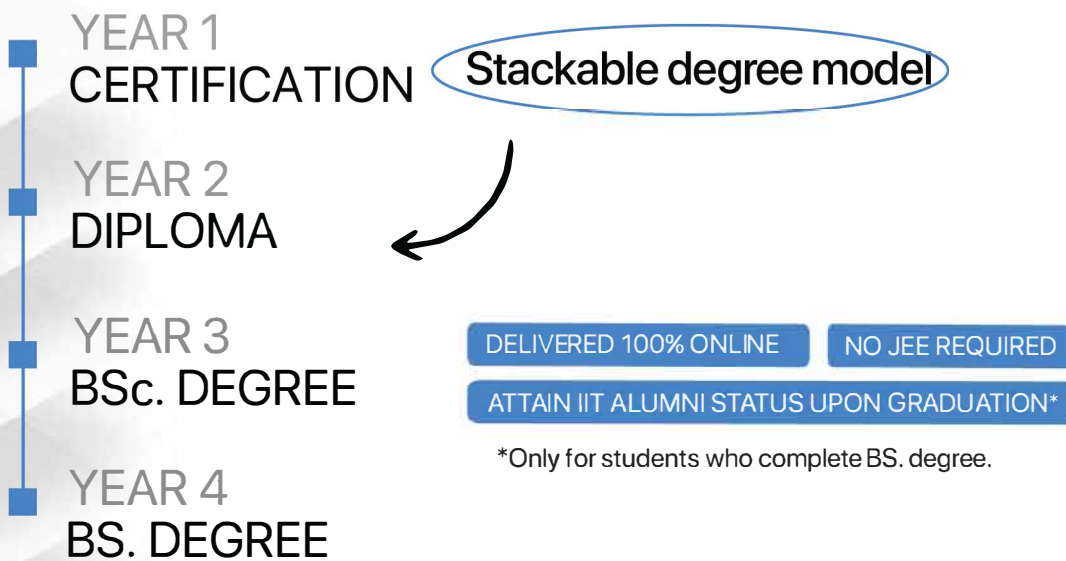
The future belongs to those who prepare for it today. AI is not just a tool, it's a gateway to becoming a champion in your field.

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



Program — Overview

■ BS./BSc. Degree from IIT Jodhpur



How would your — week look like?

TYPICAL WEEK OF A STUDENT						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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		

*All Semester ending final exams will be conducted in offline / online mode as per discretion of 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 of the BS. Degree, 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.

■ 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.

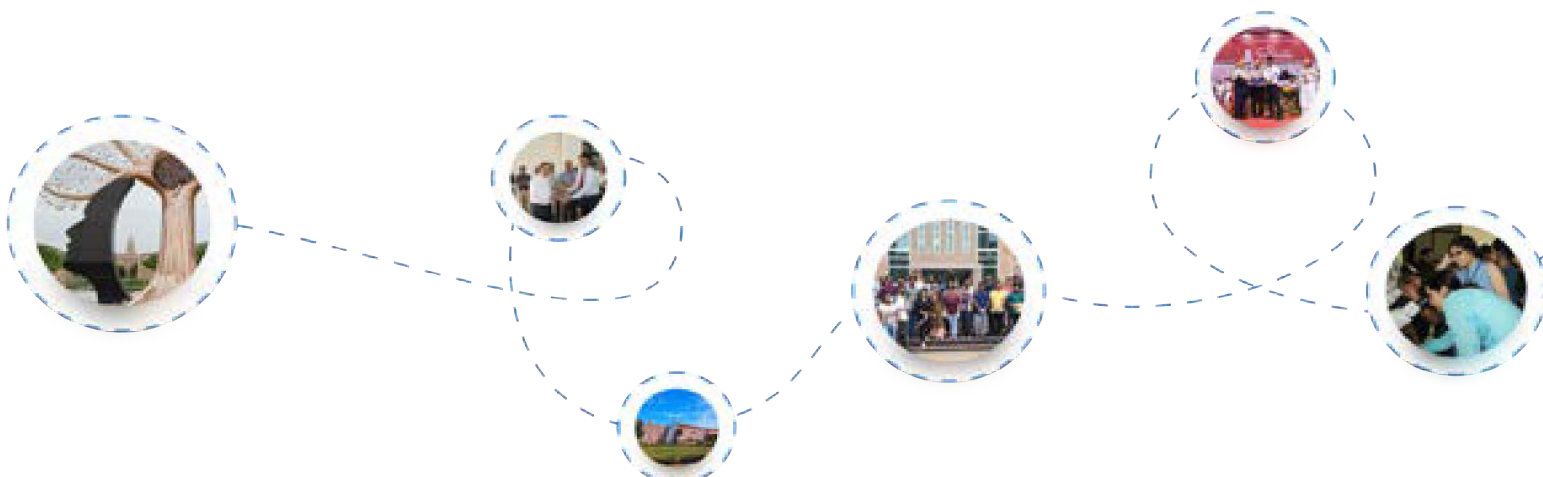
*Only for Students who Complete BS. Degree.



Campus — Immersions

Campus Immersion is a unique element of the program, which is **non mandatory**. It offers learners an optional opportunity to visit IIT Jodhpur campus for 3-5 days each academic year **based on operational feasibility of IIT Jodhpur**.

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.

Futureense 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 Futureense leaders through the exclusive Futureense 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.



futureense
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 Futureense 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.



and many more



■ 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 Futureense. 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 Futureense'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
Futureense 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	

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.





Comparison between Traditional BTech. & IIT Jodhpur's BSc.

Traditional Learning Model

Earn a regular Bachelor's degree

Become a generic engineer when you graduate

Invest time in writing assignments and mundane exercises

No global immersion or study abroad opportunities

Limited industry professors

World's First Agile-Driven Undergraduate Degree

Earn an IIT Bachelor's degree and prestigious alumni status

Stand out with India's only AI-driven undergraduate program

Learn current-gen skills like content creation and build your portfolio

Study abroad with Futureense US Pathway after your BS. degree

Trained by top IIT faculty & leading industry experts





Student —

Curriculum

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

YEAR	Semester	Course Name	Some Outcome Job Roles
CERTIFICATION I	1	<ol style="list-style-type: none"> 1. Linear Algebra and Numerical Analysis 2. Foundations of Statistics and Probability 3. Algorithmic Thinking and Its Applications 4. Basics of Data Analytics 	<ul style="list-style-type: none"> • AI Powered Office Assistant • Data and Research Analyst • Junior Business Analyst
	2	<ol style="list-style-type: none"> 1. Numerical Optimization 2. Foundations of AI 3. Visualization and Storytelling with Data 4. Generative AI tools 	
DIPLOMA II	1	<ol style="list-style-type: none"> 1. Pattern Recognition Principles 2. Machine Learning 3. AI Programming 4. Generative AI 	<ul style="list-style-type: none"> • Data Analyst • Data Engineer • Junior Data Scientist
	2	<ol style="list-style-type: none"> 1. Machine Learning Applications 2. Basics of Data Mining 3. Foundations of Data Engineering 4. Tools for Data Science 	
BSC. DEGREE III	1	<ol style="list-style-type: none"> 1. Machine Learning 2 (Deep Learning) 2. Foundations of NLP 3. Computer Vision 4. Data Security and Ethics 	<ul style="list-style-type: none"> • Domain AI Application Job • NLP Application Engineer • Computer Vision Application Engineer • Data Scientist
	2	<ol style="list-style-type: none"> 1. Machine Learning Applications (Domain based use cases) 2. LLM and Prompt Engineering 3. Reinforcement Learning 4. Conversational AI 	

*All semester ending exams will be conducted in offline/online mode as per the discretion of IIT Jodhpur.

*Courses are indicative and may change based on discretion of Program Directors and industry requirements.



Student —

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
BS. DEGREE IV	1	<ol style="list-style-type: none"> 1. Project Management Principles 2. Software Engineering 3. Design Thinking and Complex Problem Solving 4. Live Project - Initiation 	<ul style="list-style-type: none"> • AI Application Engineer • Generative AI Application Engineer
	2	<ol style="list-style-type: none"> 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
BS. DEGREE IV	1	<ol style="list-style-type: none"> 1. Probability and Statistics 2. Linear Algebra 3. Calculus and Optimization 4. Programming, Data Structures and Algorithms 	<ul style="list-style-type: none"> • Research Track
	2	<ol style="list-style-type: none"> 1. Database Management and Warehousing 2. Machine Learning 3. AI 4. Thesis 	

*All Semester ending final exams will be conducted in offline / online mode as per discretion of IIT Jodhpur.

*Courses are indicative and may change based on discretion of Program Directors and industry requirements.



Program — Directors



Dr Suman Dhaka

**Assistant Professor, Psychology in the School of Liberal Arts
IIT Jodhpur**

Dr. Suman Dhaka is an Assistant Professor of Psychology in the School of Liberal Arts at IIT Jodhpur and an affiliated faculty member in the School of Artificial Intelligence & Data Science. She specializes in cognitive neuroscience, neuropsychology, and cognitive psychology. Her research focuses on the multidisciplinary study of affect regulation, interactions between sleep and emotion, and their influence on human behavior and decision-making.

She previously served as Assistant Professor in the Department of Humanities and Social Sciences at NIT Rourkela before joining IIT Jodhpur in December 2020. Dr. Dhaka earned her integrated B.Tech–M.Tech in Cognitive Neuroscience from the University of Rajasthan and completed her Ph.D. in Cognitive Psychology at IIT Guwahati. Her work employs EEG, sleep studies, brain stimulation, and computational modeling to investigate the neural bases of emotion–cognition interactions.

Dr. Dhaka leads funded research projects and has published her work in peer-reviewed journals. She maintains active collaborations with national and international researchers. Her awards and fellowships include DAAD, DST-CSRI, DST-IAS, DBT-IPLS, FENS–IBRO PERC, and The Brain Prize travel grant.



Dr Bhivraj Suthar

**Assistant Professor, Artificial Intelligence and Data Science
IIT Jodhpur**

Dr. Bhivraj Suthar is an Assistant Professor of Robotics in the School of Artificial Intelligence and Data Science at IIT Jodhpur. He is also affiliated with the Robotics & Mobility Systems and the AIIMS MedTech Centre at IIT Jodhpur. Previously, he held postdoctoral positions at Khalifa University (UAE) and Chungnam National University (South Korea). His research interests include bio-inspired and wearable robotics, brain-robot interfaces, prosthetic limbs, exoskeletons, and AI-driven assistive technologies. He earned his Ph.D. in Mechanical Engineering (Robotics) from the Korea University of Technology and Education, M.Tech. in Energy from IIT Delhi, and a B.E. in Electrical Engineering from CTAE, Rajasthan, India. Dr. Suthar has published 22 journal papers in reputed international journals. Also, he published more than 40 conference papers in the leading conferences such as ICRA, IROS, ROMAN, CASE, UR, NASA-AMS, AMSM, RAHA, ACMD, IEEE Haptics Symposium, ICCAS, and AIR. His contributions have been recognized through several prestigious awards, including the WearRAcon Innovation Challenge Award (Top 5, 2022, USA), James Dyson Design Award (Top 10, 2021, South Korea), Samsung Electro-Mechanics Award (2021, South Korea), Creativity and Innovation Award (2021, South Korea) and the Gandhian Young Technological Innovation Award (2015, India).





Learn from the Masters



futureense
leadership
council

Get Industry Insights and Mentorship from Top Leaders Across Various Domains



Divesh Singla

Vice President, Global
Operations and Head, APAC



Kaushik Das

Transformation | Strategy |
Operations | Analytics



Nithya Subramanian

Head of Data & Analytics
AMEA



Anupam Gupta

VP Enterprise Data and
Analytics



Pankaj Rai

Group Chief Data and
Analytics Officer



Ishu Jain

Head Of Central Analytics



Nitin Srivastava

Data & Analytics India Lead



Shrisha Ray

Director of
Engineering



THOMSON REUTERS



A V Rahul

Director, Analytics



Ankit Mogra

Director - BI &
Analytics



Saurabh Agarwal

Chief Executive
Officer



Madhu Hosadurga

Global Vice President,
Enterprise AI



Anand Das

Chief Digital & AI Officer



Ashish Dabas

Vice President



Bhargab Dutta

Chief Digital Officer



Alok Tiwari

Director Of Analytics



Tushar Sahu

Director Engineering



Aditya Khandekar

President



Pankaj Srivastava

SVP - Head of Credit Analysis
Unit Offshore



Anirban Nandi

Head of AI Products &
Analytics (Vice President)



Supria Dhanda

Co-Founder & Managing
Partner





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.

* 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.





Student Career —

Pathways

■ Post Graduation, Your Future is Secure with 2 Stellar Options

■ 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 Futureense'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





The road ahead

This is what your application journey looks like





Fees — Structure

PROGRAM FEE (Per Year)	REGISTRATION FEE (Non-refundable, one-time)	FINAL ENROLLMENT FEE (Non-refundable, one-time)
INR ₹1,20,000/-	INR ₹5,000/-	INR 5,000/-

Total Program Fees for Year 1: ₹1,30,000
(2025-2026)

Note: _____

- Convocation Fee: ₹3,000 (One-time; to be paid directly to IIT Jodhpur; not included in program fees)





About — Futureense

Futureense is **India's fastest-growing AI-skilling 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 AI 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 | **70+** University Collaborations | **10+** IIT/IIM Partnerships
25K+ Careers Transformed | **100+** Mentors & Experts | **400+** Futureense Team Strength
540+ Trusted Hiring Partners



and many more...



Get in — Touch



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



+91 7795000055, +91 9266586500



iitj.bsbsc@futureense.com



futureense.com/uni/bsc

