



IIT Jodhpur

BS./BSc. in Applied AI & Data Science

Future-Ready Degree in Applied AI & Data Science



IIT Alumni Status

Regular IIT Alumni Status
(on BS completion)

No JEE Required

No JEE Required – (Qualifying
Test Only)

Master 100+ Tools

Master 100+ AI & GenAI Tools
- From Python to Antigravity,
Claude & LangChain

Stackable Model

Certificate → Diploma → BSc → BS **(1 - 4 Years)**



About the Institute

At the Forefront of India's AI Revolution

Founded in 2008, IIT Jodhpur spans a 852 acre eco-friendly campus in Rajasthan and is a premier institute of national importance. It leads multidisciplinary AI research - spanning theoretical foundations, industry applications, and locally relevant solutions.



27th Rank in Engineering

Strong partnerships with





Message from The Director



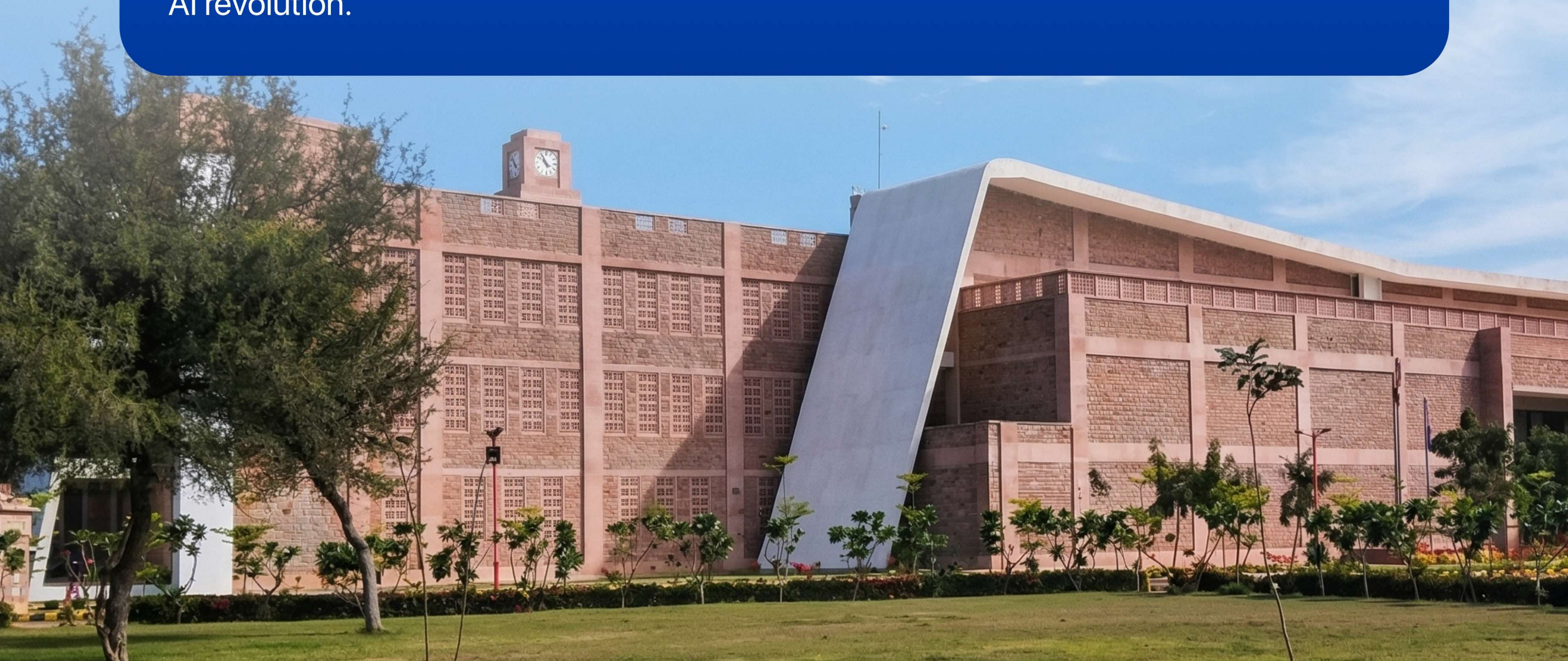
Prof. Avinash Kumar Agarwal

Director, IIT Jodhpur

Our present age demands creative solutions to global challenges - from sustainable development to ethical AI. Traditional education that rewards rote learning is no longer enough.

This **BS/BSc in Applied AI & Data Science** equips learners with modern competencies to thrive in a world reshaped by artificial intelligence. Designed with academic rigor and industry relevance, it empowers students to become not just users - but builders - of tomorrow's AI systems.

Whether you're a **Class 12 graduate or a working professional**, this program offers a direct pathway to an **IIT degree*** - **without JEE** - and a future at the forefront of India's AI revolution.





The AI Imperative

15 Lakh Aspirants.

Only 1% Get Into IITs.

Where Do You Stand?

You can be one of them

Why the Timing Matters

The Demand Gap

India needs 1M+ AI professionals by 2026 (NASSCOM)



The Tech Shift

Generative AI will add \$4.4T annually to the global economy (McKinsey)



The IIT Edge: Bypass the JEE bottleneck while earning a degree from India's most elite institution

What Employers Expect

Top Tech Employers Want You To

01

Drive AI-Enhanced Efficiency

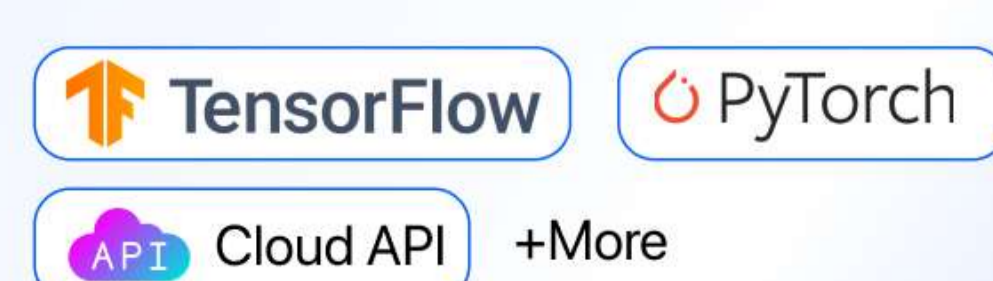
Use tools like Google's Antigravity, Devin AI, Claude, and LangChain to automate coding, analysis, and workflows



02

Make Data-Driven Decisions

Build predictive systems (not just dashboards) using TensorFlow, PyTorch, and cloud APIs



03

Bridge Business & AI

Translate real-world problems into deployable AI solutions with clear ROI





About the Program

India's Fully Online IIT's Bachelor Degree* with Campus Immersion

Designed for **Class 12 graduates** (with Math), this program blends IIT Jodhpur's academic excellence with FutureSense's industry foresight.

Bi-Lingual* Teaching: Live Learning in English and Hinglish

Stackable Model: Exit with Certificate (Y1), Diploma (Y2), BSc (Y3), or BS Degree (Y4)

Weekly Self Paced Learning + Live Classes + Structured Self-Study + Hands-on Builds

Add-on Degree Option: Pursue alongside your primary degree

Note: Campus immersion is optional. The conduct of the immersion will be subject to the operational feasibility at IIT Jodhpur.

*Applicable only to students who successfully complete all four years of the program.

*Hinglish is used only in recorded lectures. Applicable only for the first year.



What Makes This Different?

01

Applied-First Learning



Every module ends in a real build—not just theory

02

Portfolio-Driven Growth



Your GitHub, demos, and READMEs become your proof of skill

03

Industry-Co-Designed Curriculum



Built with 40+ MAANG leaders via the Futureense Leadership Council

04

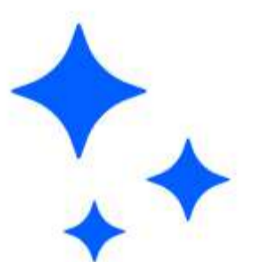
Career Layer Built In



Resume prep, interview stories, job role mapping

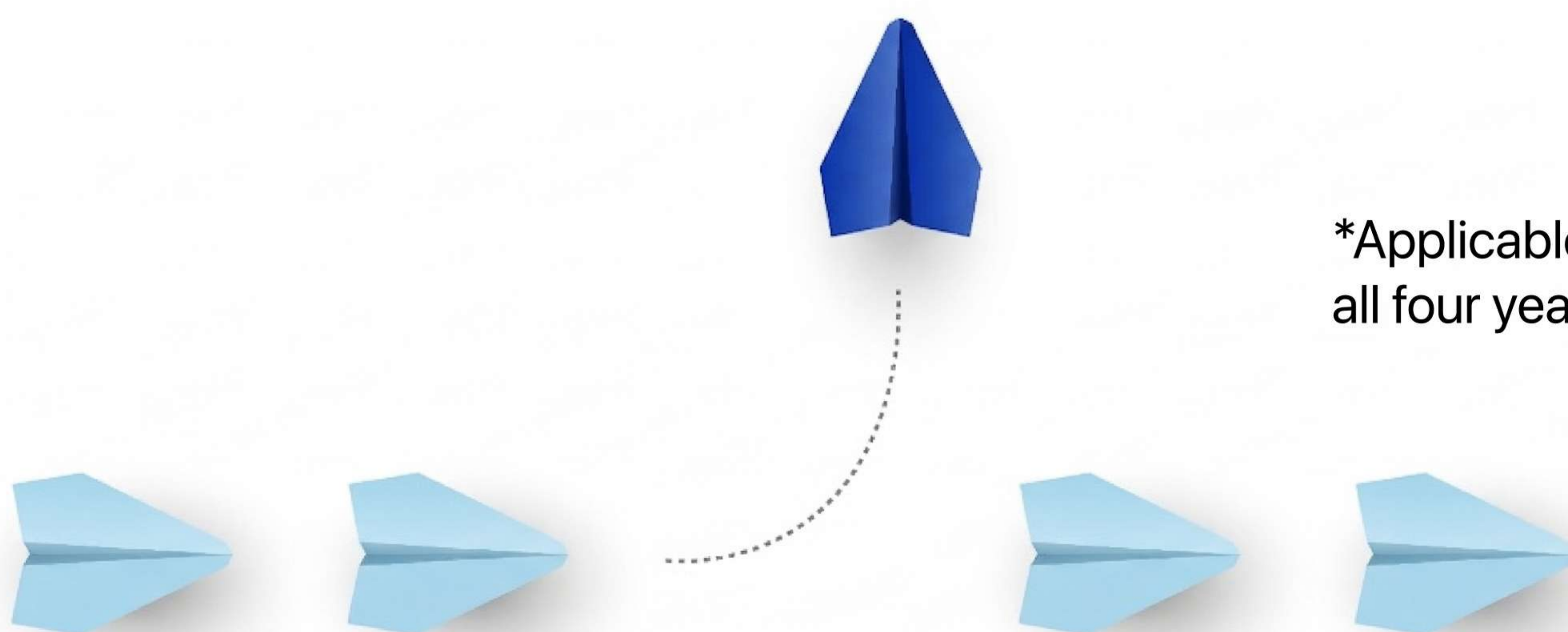
05

IIT Ecosystem Access



Optional campus immersion, alumni network*, and lifelong IIT identity

*Applicable only to students who successfully complete all four years of the program.





Our Framework for the AI Professional of the Future

Career

Job-ready portfolio, interview mastery, role alignment

Build

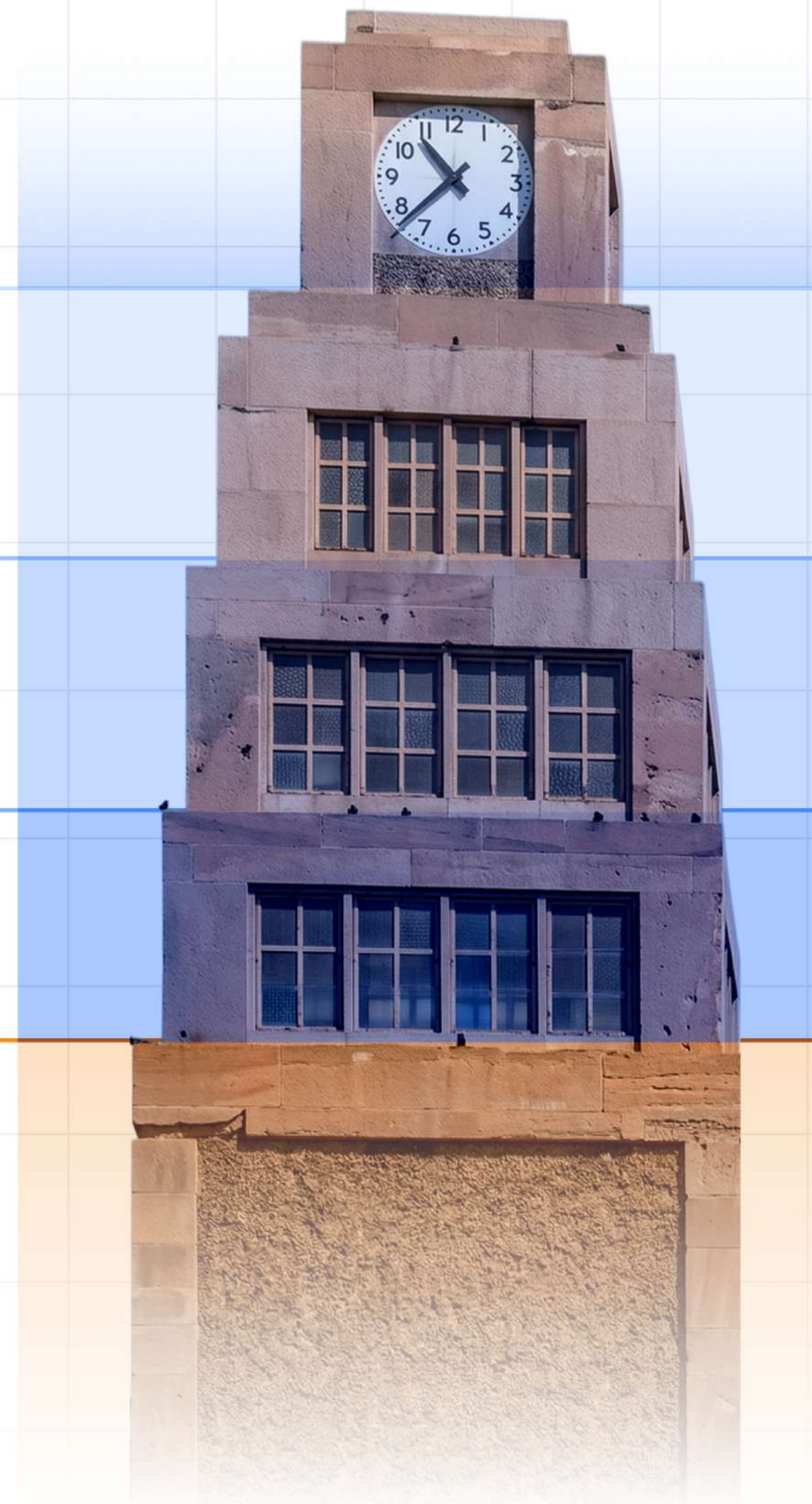
End-to-end projects, GitHub, Deployments

Core AI

ML, NLP, Computer Vision, Ethics

Foundation

Math, Stats, Python, GenAI Literacy



Why This Program Wins

Feature	IITJ BS/BSc (Applied AI)	Traditional CS Degree	Typical Online Course
Degree Issuer	IIT Jodhpur	State/Private University	EdTech Platform
Alumni Status	✓ (Only on Completion of BS Degree)	✗	✗
Tool Exposure	100+ AI & GenAI Tools (Devin, Claude, LangChain)	Legacy tools (Excel, basic Python)	10–20 tools
Flexibility	Stackable model (1–4 years)	Rigid 4-year structure	Fixed duration
Language	Bi-lingual (English/Hinglish)	English only	English only
Curriculum	Latest (Frequently updated) : GenAI + Agentic AI	Outdated (2018–2020 syllabi)	Varies



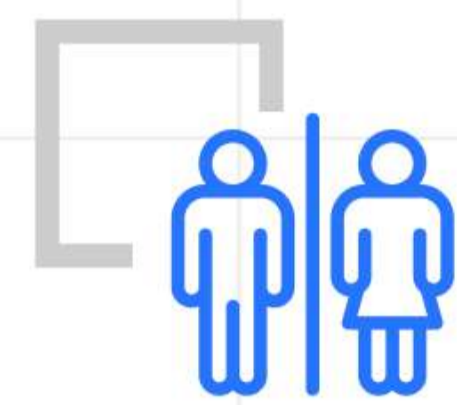
Past Participants Profile

Cohort Overview



1500+

Total Students



5:1

Male to Female
Ratio



20 years

Average age

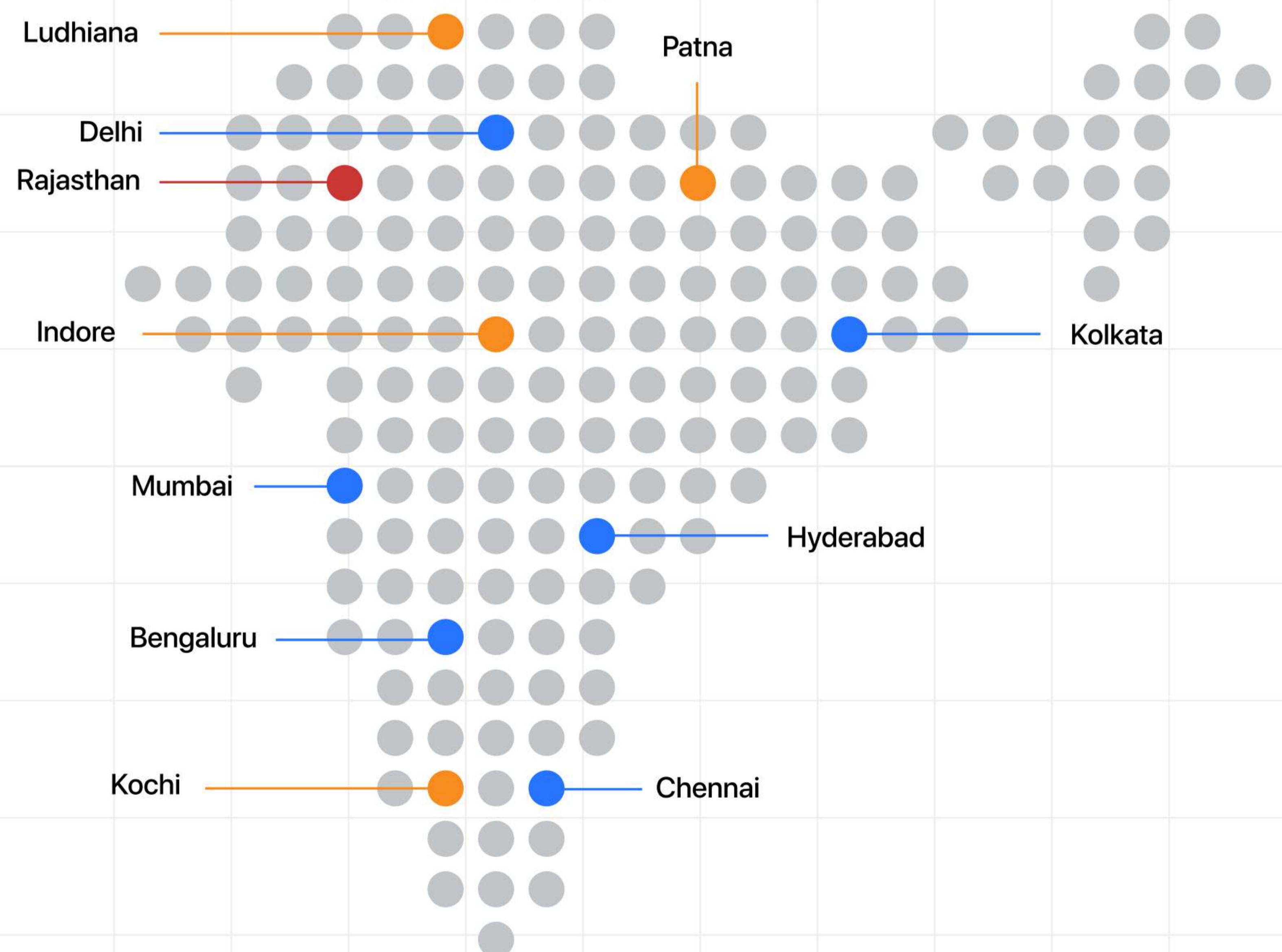
 India

City Analysis

 Tier 1 → **20.5%**

 Tier 2/3 → **62.9%**

 Rajasthan → **16.5%**





What You Will Learn

Weekly Commitment

4 Hrs

Weekly 4 hours of self paced learning

8-16 Hrs

8-16 hrs of live sessions

6-8 Hrs

Self-Study

4-8 Hrs

Build/Labs

Program Phases & Career Outcomes



Year 1 Certification

- ☑ AI-Powered Office Assistant
- ☑ Data/Research Analyst
- ☑ Junior Business Analyst



Year 2 Diploma

- ☑ Data Analyst
- ☑ Data Engineer
- ☑ Junior Data Scientist
- ☑ BI Analyst



Year 3 BSc

- ☑ Domain AI Application Engineer
- ☑ NLP/CV Engineer
- ☑ Data Scientist



Year 4 BS

- ☑ AI Application Engineer
- ☑ Applied GenAI Engineer (Applied Track) or Research/MS Pathway (Research Track)



Curriculum

YEAR 01

Certification

Outcome: Implement out-of-the-box tools for automation, generate data insights, and use AI for productivity

Semester 1

- ⊙ Linear Algebra and Numerical Analysis
- ⊙ Foundations of Statistics and Probability
- ⊙ Algorithmic Thinking and Its Applications
- ⊙ Basics of Data Analytics

Semester 2

- ⊙ Numerical Optimization
- ⊙ Foundations of AI
- ⊙ Visualization and Storytelling with Data
- ⊙ Pattern Recognition Principles

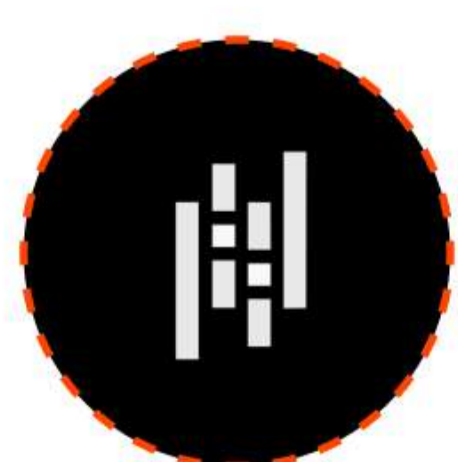
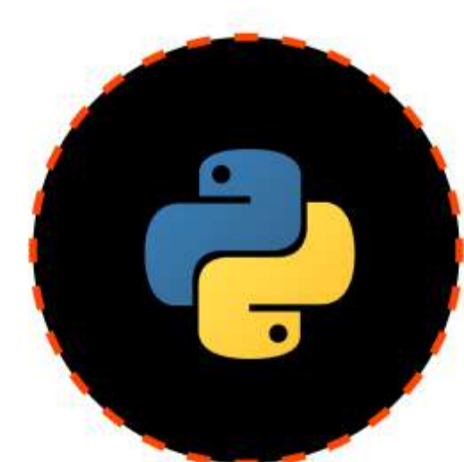
Apply (Labs)

- ⊙ Build EDA pipelines in Pandas
- ⊙ Create interactive dashboards (Power BI/Tableau)
- ⊙ Automate reports using GenAI + Excel

Build

Project: AI-Powered Office Assistant

Tools: Python, Pandas, ChatGPT, Power BI, Excel



Interview Story: "How I automated weekly reporting for my school club using AI"



Curriculum

YEAR 02

Diploma

Outcome: Apply ML & data tools effectively; translate business needs into technical solutions.

Semester 3

- ✓ Introduction to Databases
- ✓ Machine Learning – 1
- ✓ Programming for Data Science
- ✓ Operating Systems

Semester 4

- ✓ Basics of Data Mining
- ✓ Machine Learning – 2
- ✓ Object-Oriented Programming
- ✓ Introduction to Web Technologies

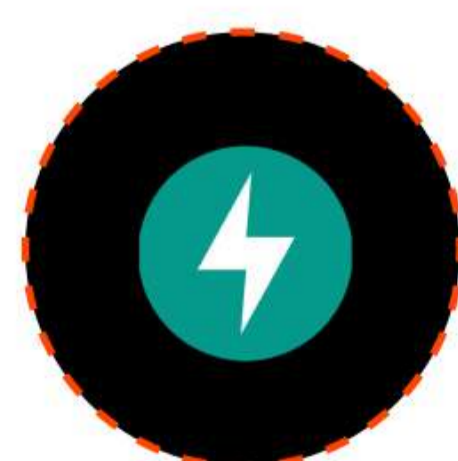
Apply (Labs)

- ✓ SQL queries on real datasets
- ✓ Train & evaluate regression/classification models
- ✓ Build REST APIs with Flask/FastAPI

Build

Project: Customer Segmentation Dashboard with Live Web Interface

Tools: SQL, Scikit-learn, Flask/FastAPI, Git, Jupyter



Interview Story: "How I built a customer insights tool used by a local startup"



Curriculum

YEAR 03

BSc Degree

Outcome: Integrate AI/ML models into business contexts; specialize in domain applications.

Semester 5

- ✓ Deep Learning
- ✓ Foundation of Data Engineering
- ✓ Image Processing
- ✓ Algorithms

Semester 6

- ✓ Computer Vision
- ✓ Introduction to Robotics
- ✓ Advanced AI
- ✓ Distributed Computing

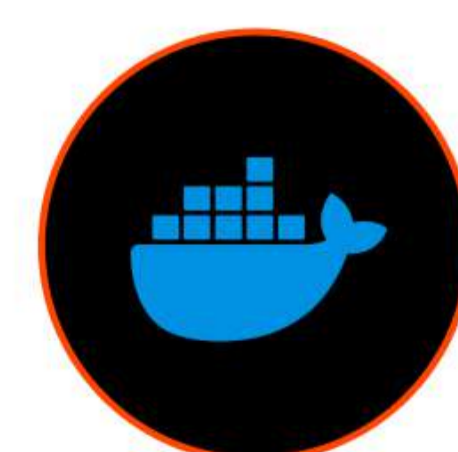
Apply (Labs)

- ✓ CNNs for image classification
- ✓ Data pipeline with Apache Spark
- ✓ Deploy model on cloud (AWS/GCP)

Build

Project: Retail Visual Inspection System (Computer Vision App)

Tools: TensorFlow, OpenCV, Spark, Docker, AWS



Interview Story: "How I reduced manual QA time by 70% using a CV prototype"



Curriculum

YEAR 04

BS Degree

Track 1: Applied AI (Product/Engineering Focus)

Outcome: Build & manage AI products; lead applied AI teams

Semester 7

- ✓ Software Engineering
- ✓ ML with Big Data
- ✓ Natural Language Understanding (NLU)

Semester 8

- ✓ Live Project & Applied Capstone (8 credits)
- ✓ Foundation Models

Target Roles: AI Application Engineer, Applied Generative AI Engineer

Track 2: Research (Academic/MS Focus)

Outcome: Prepare for MS/PhD; publish research; solve open problems

Semester 7

- ✓ NLU
- ✓ Probability & Computational Statistics (PCS)
- ✓ BTP-1 (Bachelor's Thesis Project)

Semester 8

- ✓ Optimization for ML
- ✓ Foundation Models
- ✓ BTP-2

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



What You Will Build

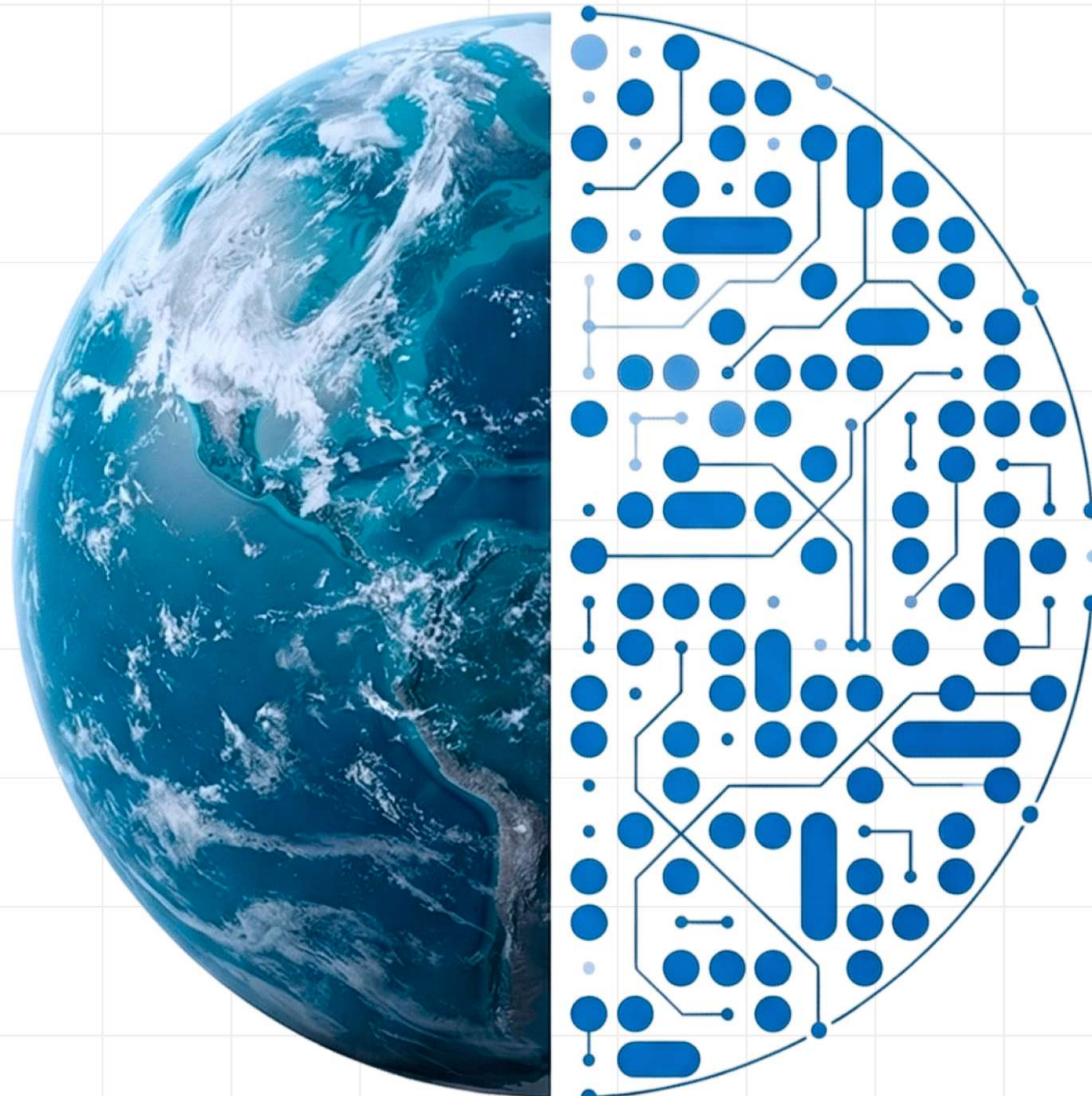
Real-World Impact Projects

AI-Powered Office Assistant (Y1)

Customer Segmentation Web App (Y2)

Retail Visual Inspection System (Y3)

Computer Vision



GenAI-Powered Customer Support Bot (Y4)

Applied Track

Research Thesis on Efficient LLM Fine-Tuning (Y4)

Research Track

Capstone: End-to-end AI solution deployed on cloud with documentation



Your Complete Toolkit

By Purpose

Programming



Python



SQL



{OOP}



Flask



Git

Data



Pandas



Spark



SQL



Power BI



Tableau

ML/AI



Scikit-learn



TensorFlow



PyTorch



OpenCV

GenAI



LangChain



Hugging Face

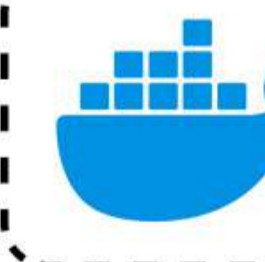


Claude



ChatGPT

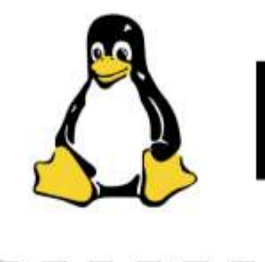
Systems



Docker



aws



Linux



Distributed Computing

Research



LaTeX



Jupyter



MLflow



Weights & Biases



What You Graduate With

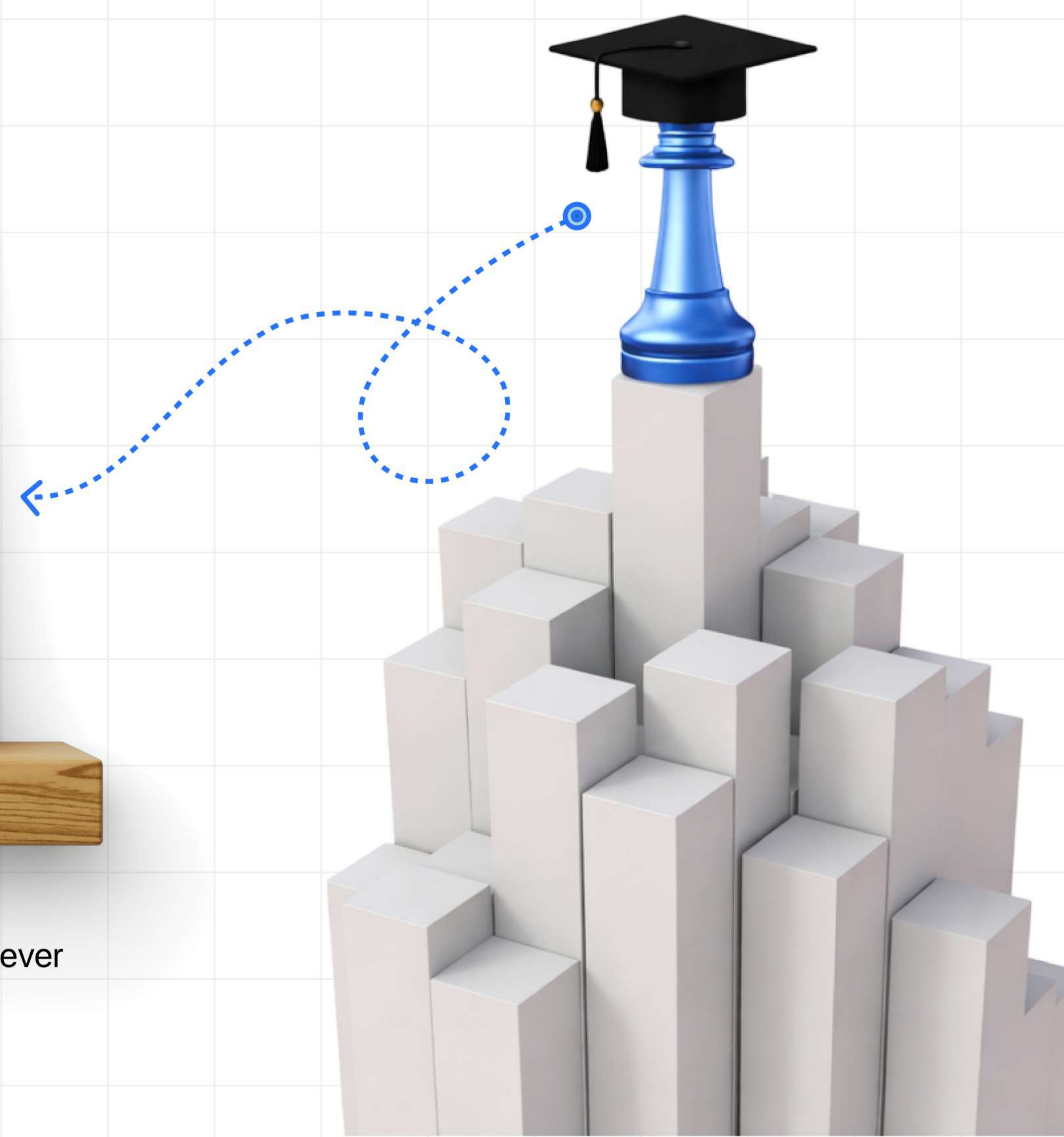
Job Roles & Projected Salaries (India, 2028–2029)

Role	Key Skills	Projected Salary (₹)
AI Application Engineer	GenAI orchestration, MLOps, API design, product thinking	12–32 LPA
Applied Generative AI Engineer	Foundation models, RAG systems, agent frameworks, prompt engineering	15–40 LPA
Computer Vision Engineer	Multimodal models, 3D vision, edge AI deployment	16–35 LPA
Data Scientist (AI-First)	Causal inference, LLM-augmented analytics, experimentation at scale	12–28 LPA
AI Infrastructure Engineer	Vector databases, GPU optimization, distributed training pipelines	12–38 LPA

Note: Salary projections based on NASSCOM 2026–2029 talent gap forecasts, industry compensation trends (12–15% CAGR for specialized AI roles), and evolving demand for GenAI/Agentic AI capabilities. Actual compensation may vary by company tier, location, and individual skills & project portfolio strength.

Your Credential

Get a regular Bachelor's Degree from IIT Jodhpur



Note: Degree is awarded upon the successful completion of year 3 and year 4. However the Alumni status is only conferred upon the successful completion of year 4.



Program Directors



Dr. Bhivraj Suthar

Assistant Professor, Artificial Intelligence and Data Science IIT Jodhpur

Dr. Bhivraj Suthar is an Assistant Professor of Robotics at the School of Artificial Intelligence and Data Science, IIT Jodhpur, and is affiliated with the Robotics & Mobility Systems and AIIMS MedTech Centre. His research focuses on bio-inspired and wearable robotics, brain-robot interfaces, prosthetics, exoskeletons, and AI-driven assistive technologies. He previously held postdoctoral positions at Khalifa University (UAE) and Chungnam National University (South Korea).

Dr. Suthar holds a Ph.D. in Mechanical Engineering (Robotics) from the Korea University of Technology and Education, an M.Tech. from IIT Delhi, and a B.E. from CTAE, Rajasthan. He has published 22 journal papers and over 40 conference papers in leading international venues and has received several prestigious awards, including the WearRAcon Innovation Challenge Award, James Dyson Design Award (Top 10), and the Gandhian Young Technological Innovation Award.



Dr. Suman Dhaka

Assistant Professor, Psychology in the School of Liberal Arts at 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.



Campus Immersion



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 the 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.





Futureense Bridge Course

Before the PG Certificate in VLSI Design begins, every learner undergoes a **Structured Bridge Course Designed to Build Strong Technical Fundamentals in Electronics and VLSI Concepts**. This ensures all learners, regardless of background, enter the program prepared, confident, and **Day-1 ready**.

Bridge Course Focus

Build essential electronics and VLSI foundations so learners can seamlessly transition into advanced VLSI design coursework with clarity and confidence.

Where you are now



Enrolled

BRIDGE (DAY 1 READY)

Program Starts

What You'll Learn

- Semiconductor Material & Analog Basics
- GenAI, Agentic AI and Prompt Engineering
- System Thinking for AI
- Digital Electronics & HDL Foundations

Learning Structure

- Weekly 4 hours of live online training
- 30+ hours of self-paced learning material
- Engaging interactive sessions led by industry experts.
- Assessment at the end of the course to ensure readiness

Outcome

Begin the IIT Kharagpur VLSI program with strong fundamentals, improved technical clarity, and the academic readiness required to **Excel in both Coursework and Hands-on Design from Day 1**.



Welcome to the — **Futureense AI Clinic**

Where Marketers Stop Watching AI Demos and Start Building with it

This isn't a sandbox. It's a **Proving Ground**. The **AI Clinic** is your **Lab to Experiment, Deploy, Break Things, and Iterate** — just like the best product and growth teams do.

Live Brand Challenges, Not Class Assignments

Work on real **RFPs** or **Business Problems from Real Companies**. These are active business problems, straight from growth teams — not theory decks.

Master the GenAI-Driven MarTech Stack

Get hands-on with **20+ Tools** — from **ChatGPT, Claude, Jasper, Segment, Canva, LangChain, to Webflow and BerriAI**.

Deep Dives Beyond the Syllabus

Participate in **6 Exclusive Martech and AI Tools Ecosystem Workshops** where you wire CRMs, set up dashboards, run A/B tests, and automate full-funnel journeys.

From Whiteboard to Live Campaigns

Move from idea to live build. Each week, you'll ship working prototypes — not just concepts — using real data and real tools.

Feedback from the Frontlines

Your work is reviewed by leaders from brands like **Google, AmEx, Lenskart**, and others via the **Futureense Leadership Council (FLC)**.

Capstone That Proves You're Ready

Graduate with a complete, AI-powered marketing campaign — built, shipped, and hosted in your portfolio.





Futureense Breakfast Club

Where Cybersecurity Alumni, Learners & Leaders Grow Together

The Futureense Breakfast Club is more than a community; it's a platform built for **Real Connections**, **Real Opportunities**, and **Real Impact**. Designed for learners and alumni of IIT-certified programs, it brings together driven professionals who believe in giving back, learning forward, and growing as a tribe.

◆ What You Get as a Member:



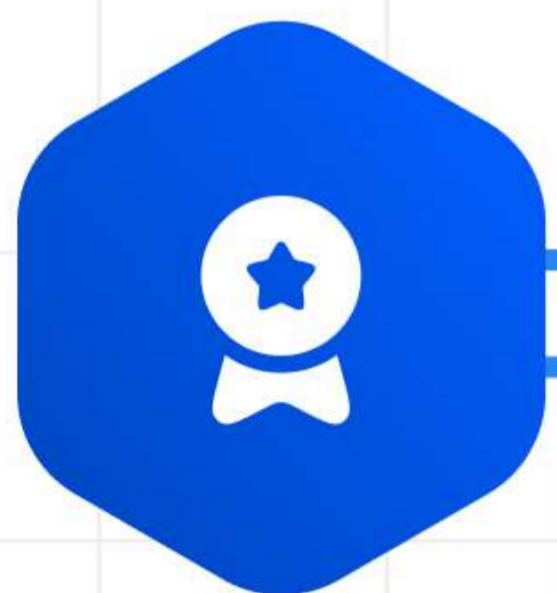
Direct Access to Futureense Alumni

Join active WhatsApp groups with dedicated spaces for networking, job search, and success stories.



Monthly Career Webinars

Learn from alumni who've made successful transitions from support and QA roles to SOC Analysts, Threat Intelligence specialists, and beyond.



Rewards & Recognition

Earn points for every activity, be it mentoring, interviews, or webinars, and redeem them for certificates and other rewards.



Stay Involved, Always

Even after graduation, you're still part of the journey. Participate flexibly and continue shaping future cohorts as a Future Leader.



Unlike one-off webinars, the Breakfast Club is designed for continuous, high-context interaction. You don't just listen, you contribute, share, and grow with a tribe of practitioners.



Eligibility Criteria

Class 12

Passed Class 12 with Mathematics

60% marks

Minimum of 60% in the 10+2 examination

Qualifying

Pass Qualifying Test (Math, English, Logical Reasoning – 2 hrs)

Diploma Holders







Diploma holders are also eligible to this program.

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.

Application Process & Fees

Steps

- 01**  Apply online at futureense.com/uni/bsc
- 02**  Qualifying Test
- 03**  Receive Offer Letter from IIT Jodhpur
- 04**  Pay ₹10,000 Registration + Enrollment
- 05**  Complete Bridge Course
- 06**  Begin Program (Jun 2026 Intake)

Fees

Program Fee/year

₹1.20 LAKHS

Registration

₹10,000 NON REFUNDABLE

(Registration + Enrollment; Non Refundable & One Time Payment)

Convocation Fee

₹3000

(paid to IITJ directly)

Testimonials



Rayn Roy

As a first-year B.S. Applied AI & Data Science student at IIT Jodhpur, I'm really happy with the program. In just three months, the course has been excellent—thanks to supportive mentors and TAs, plus practical sessions that teach real industry tools. I've already applied my learning by building an agentic AI project using Gemini Flash 2.5, and I'm glad I chose this course.



Apoorva Sharma

I'm proud to be part of the first batch of IIT Jodhpur's BS in Applied AI and Data Science (in collaboration with Futureense). The program is well-structured, blending strong AI/Data Science fundamentals with practical projects and real-world learning. With supportive faculty, mentors, and engaging live sessions, it has helped me build confidence and a strong skill set for my future career.



Anirban Chakraborty

When I joined the B.Sc. in Applied AI program at IIT Jodhpur, I had little to no coding background. Today, I feel confident as a programmer and analytical thinker, thanks to the supportive faculty and the program's strong mix of theory and hands-on learning. The practical exposure, collaborative environment, and access to labs have made my journey truly empowering and transformative.



Mayank Basak

Learning from IIT is truly an honour. With IIT's teaching and Futureense's guidance, I'm gaining strong AI & Data Science fundamentals and advanced skills, along with valuable learning beyond the classroom. It's the perfect blend of academic depth and real-world application.



Uzma Jagirdar

As a working professional, pursuing a Bachelor's in Applied AI and Data Science from IIT Jodhpur (with Futureense) has been challenging but truly rewarding. The program is flexible, practical, and industry-relevant, and the faculty support plus hands-on learning makes complex concepts easy to understand.



Ansh Jain

I am satisfied with the facilities and environment provided by futureense for study and the user interface for the lectures, assignments and quizzes are also very easy to tackle and understand. And I am very happy with the study environment.



Lalit kumar

I'm fully satisfied with the content that futureense deliver to me.. to my opinion it's good course



Devansh Srivastava

Being part of the IIT Jodhpur BS in Data Science and AI program has been a transformative experience. The hybrid format, interactive IIT classes, Futureense Bridge Course, real-world capstone projects, and FLC sessions with industry experts make the learning flexible, practical, and career-focused. It truly feels like more than a degree—it's building future-ready skills and confidence.





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.



Our Four Verticals

Futureense.uni

Online degree and certificate programs in partnership with IITs and IIMs.

Futureense Global

First-of-its-kind study abroad and credit transfer programs with leading global universities.

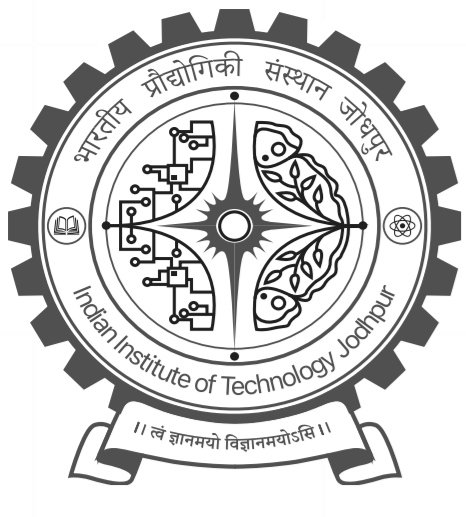
Futureense SCHOOL OF AI

Co-branded AI-focused undergraduate programs for select universities, managed end-to-end.

Futureense.enterprise



Staffing and corporate reskilling solutions for Fortune 500 companies and global capability centers (GCCs).



olution

with IIT Jodhpur!



+91 77950 00055 | +91 92665 86500



iitj.bsbsc@futureense.com



futureense.com/uni/bsc



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