

Indian Institute of Technology Jammu's

M.Tech in Generative AI & Data Science

(Executive)

India's First M.Tech integrating **Generative AI & Data Science** for Working Professionals

Duration	Fee	Start	Format
2 Years	₹4.49 Lakhs	1st September 2026 (Tentative)	Weekend Live Classes + Campus Immersions

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Based on the 2026 Curriculum

Admissions & Industry Partner

Futurense

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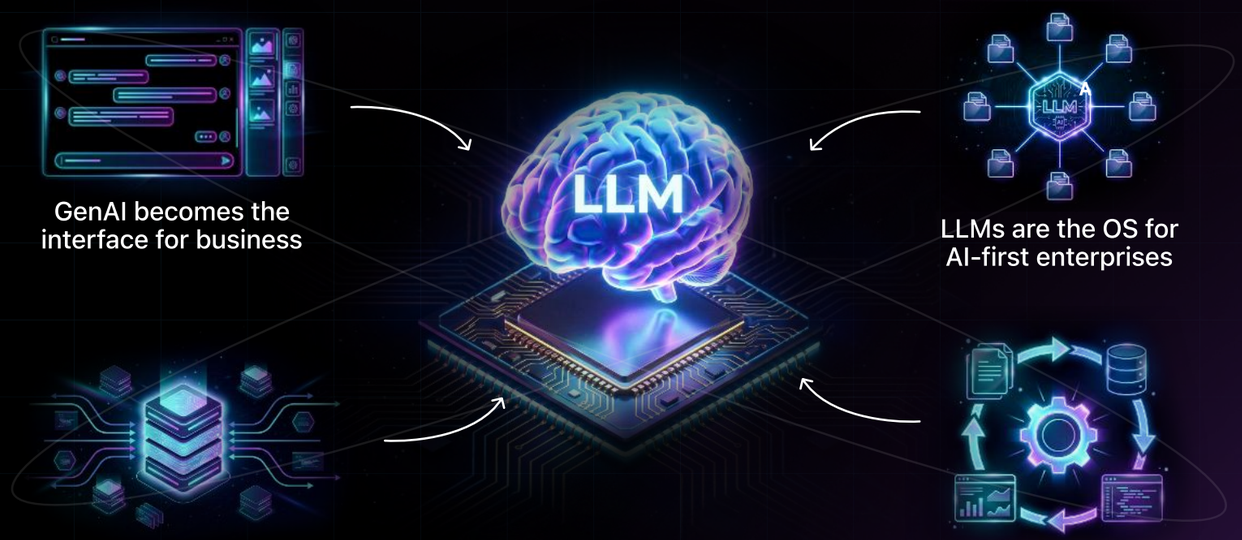
Context of the Program

AI and Data Science is now moving from experimentation to **Full-scale Adoption**, and the biggest shift is happening in **Generative AI and Data-Centric Systems**. Industries today need engineers who can **Build AI agents, deploy LLMs, Manage data pipelines, and integrate AI into real products**, not just train models.

- **GenAI** is becoming the new interface for **Data Science and Business Operations**
- **LLMs are evolving into the operating system for AI-first enterprises**
- **Data Science + RAG + Agents** are now the backbone of production-grade AI
- Companies need **Engineers who Understand Systems**, not just algorithms



Today's AI Products Require:

- AI Agents with memory, tools, autonomy
- Context engineering, retrieval pipelines, and production MLOps
- Scalable data systems to power AI workflows
- Strong foundations in ML, DL, and advanced computational techniques

IIT Jammu's **M.Tech** in GenAI & Data Science prepares you to **build next-generation AI systems**, from LLM-powered automation to enterprise-grade data platforms, equipping you for the fastest-growing roles in the industry.

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India's AI Revolution & Your Career Opportunity

India is entering its **Largest AI Investment Phase** ever, driven by the Government's **IndiaAI Mission (2024-2030)**, a national initiative to build indigenous datasets, AI models, and compute infrastructure at scale.

The IIT Jammu **M.Tech** in Generative AI and Data Science curriculum is designed to help build expertise to contribute and drive this mission.

IndiaAI Mission Highlights

(As recently announced by the Government of India & PM Modi)

- Deployment of **10,000+ GPUs** for India's AI compute stack
- Creation of **India's First Large-scale Public Datasets** across sectors
- **80 IndiaAI Labs** to advance AI research and innovation
- Funding for **25 Deep-tech Startups** building AI products for India
- Development of **India's Own Large Language Models (LLMs)** for multilingual and low-resource environments

Contribute to the Mission of Building:

- Multilingual AI (22 official languages, 1000+ dialects)
- AI for healthcare, agriculture, governance, and financial inclusion
- Public-scale systems for 1.4 billion people
- Ethical, low-cost, accessible AI solutions



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Program Overview

India's First M.Tech in Generative AI & Data Science

While various **M.Tech** programs in General AI or Data Science exist, IIT Jammu's has designed **India's First and Only** M.Tech **Specifically Focused on Generative AI and Agentic AI Systems**.

DEGREE
M.Tech in Generative AI & Data Science (Executive) by IIT Jammu

DURATION
2 Years
(4 Semesters, 60 Credits)

FORMAT
Weekend Live Classes + Campus Immersions

FACULTY
100% Core Curriculum by IIT Jammu Professors

SCHEDULE*
Saturday / Sunday
(Timings Depend on the IIT Faculty)

ALUMNI
IIT Jammu
Executive Alumni Status

SELECTION
Prescreening Test + Interview (Online Mode); GATE Score Optional

*Class timings will be finalized based on the availability of the IIT faculty.





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Curriculum Snapshot

60-Credit Program Following the Prescribed Curriculum

Core Courses	Electives	Project/Dissertation	Total
21 CREDITS	21/15 CREDITS	18/24 CREDITS	60 CREDITS
FOCUS AI, ML, DL, NLP, Computer Vision	FOCUS GenAI, MLOps, Agentic AI, Data Engineering	FOCUS Original Research or Project Track	FOCUS 2 Years 4 Semesters

* Curriculum is tentative and may be changed based on PD discretion and industry dynamics.

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Semester 1 | 12 Credits, Core Foundation 1

AI & ML Foundations

Course	Credits	Type
Programming for AI and Data Scienc	3	Core
Data Analytics for AI	3	Core
Foundation for Machine Learning and Deep Learning	3	Core
Artificial Intelligence and Computational Intelligence	3	Core



What You Master

- **Mathematical Foundations:** Statistical inference, Bayesian reasoning, PCA, discriminant analysis
- **Production Python:** Vectorization, OOP, testing frameworks, algorithm complexity
- **AI Fundamentals:** Search algorithms, knowledge representation, evolutionary computation, backpropagation calculus
- **Pattern Recognition:** Classification theory, fuzzy systems, clustering with mathematical derivations

Tools & Tech Stack

statsmodels · git · GitHub · kaggle · pandas · CONDA · NumPy · SciPy · jupyter · learn

- **Build:** Bayesian classifier, PCA implementation, fuzzy controller, genetic algorithm

* Curriculum is tentative and may be changed based on PD discretion and industry dynamics.

Projects and Case Studies

PROJECT 1

TALENTGRAPH

Semantic Skill Mapping Engine

Core Idea:
Probabilistic graphical models + semantic embeddings to build skill graphs that understand "React → JavaScript → Frontend → UI/UX" relationships, enabling fuzzy talent matching that keyword-based ATS systems miss.

GenAI Stack:
OpenAI Embeddings API | Structured JSON outputs for skill taxonomy | Few-shot prompting for entity extraction | Claude API for ambiguity resolution

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PROJECT 2

POLICYLENS

Regulatory Compliance Checker

Core Idea:
Rule-based expert systems + LLM reasoning to encode RBI/SEBI/GDPR as logical predicates, bridging legal text to machine-executable compliance rules.

GenAI Stack:
GPT-4 for clause interpretation | System prompts encoding regulatory logic | Temperature=0 for deterministic compliance decisions

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Case Studies

01 Reverse Engineer

Learn matrix factorization, alternating least squares, and implicit feedback modeling through dissecting Netflix's pre-deep-learning recommendation engine—the system that won their $1M Prize and still powers 80% of what you watch.

02 Forward Engineer

Replicate a product recommender for Flipkart/Amazon dataset. Integrate LLM layer for generating "Why this recommendation" explanations using chain-of-thought prompting over collaborative filtering outputs.

Semester 2 | 12 Credits, 9 Core & 3 Elective

Deep Learning Specialization

Course	Credits	Type
Pattern Recognition and Fuzzy Logic	3	Core
Natural Language Processing for Deep Learning	3	Core
Computer Vision for Deep Learning	3	Core
Elective 1 (from pool)	3	Elective



What You Master

- **Deep Learning:** Gradient descent variants, regularization theory, optimization proofs, distributed training
- **Transformers:** Multi-head attention, pre-training (MLM, CLM), fine-tuning (LoRA, RLHF), tokenization
- **Computer Vision:** ResNet, EfficientNet, ViT, YOLO, U-Net, GANs, diffusion models, self-supervised learning
- **Architecture Design:** Depth-width tradeoffs, skip connections, attention mechanisms

Tools & Tech Stack

Amazon SageMaker · ONNX · PyTorch · TensorFlow · Hugging Face · LangChain · Detectron2 · spaCy · OpenCV · MMDetection · kaggle

- **Build:** custom NER transformer, fine-tuned LLaMA, object detection system, diffusion model

* Curriculum is tentative and may be changed based on PD discretion and industry dynamics.

Projects and Case Studies

PROJECT 1

SHIELDNET

Multimodal Content Integrity Platform

Core Idea:
Multi-tower neural architectures (CNN + BERT + Wav2Vec) with cross-attention to detect coordinated inauthentic behavior—bot networks posting variations of harmful content.

GenAI Stack:
CLIP for image-text alignment | GPT-4V for nuanced context understanding | Gemini Pro Vision for video temporal reasoning | Guardrails AI for output schema validation

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PROJECT 2

CLAUSEFORGE

Contract Intelligence Engine

Core Idea:
Legal-BERT + graph neural networks modeling clause dependencies understanding a liability clause is weakened by an indemnification clause three pages later.

GenAI Stack:
Claude 200K for full-contract reasoning | Anthropic's constitutional AI principles for legal accuracy | Embedding models for clause similarity | Semantic chunking with overlap for cross-reference detection

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Case Studies

01 Reverse Engineer

Learn occupancy networks, BEV transformers, and temporal fusion through dissecting Tesla Autopilot's pure-vision architecture—the system processing 8 cameras at 36fps without LiDAR, as explained in Karpathy's AI Day presentations.

02 Forward Engineer

Build a vision-only warehouse robot navigator in CARLA/Isaac Sim. Integrate GPT-4V for reading safety signage, understanding context ("wet floor" → slow down), and generating natural language explanations of navigation decisions

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Semester 3 | 18 Credits, 9 Electives & 9 Research

Advanced Specialization

Component	Credits	Type
Elective 2 (from pool)	3	Elective
Elective 3 (from pool)	3	Elective
Elective 4 (from pool)	3	Elective
Project/Dissertation	9	Research

Research Deliverables (Dissertation I)

- Literature survey (30+ papers)
- Problem formulation
- Dataset curation
- Baseline implementation
- Preliminary experiments
- Conference paper submission

Tools & Tech Stack

FastAPI mlflow Kubeflow LangSmith kubernetes

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Elective Pool

Course	Specialization Track
MLOps and Production AI Systems	Production AI
Generative AI: Foundations and Applications	Production AI
Agentic AI and Multi-Agent Systems	Production AI
Advanced Topics in LLMs and Context Engineering	Production AI
Big Data Engineering	Data Engineering
Data Wrangling with SQL	Data Engineering
Data Visualization and Interpretation - Power BI	Data Engineering
Data Mining	Data Engineering
Computer Vision	Specialized AI
Speech and Audio Processing	Specialized AI

Course	Specialization Track
Machine Learning for Signal Processing	Specialized AI
Digital Signal Processing	Specialized AI
Optimization Methods	Theory & Optimization
Soft Computing	Theory & Optimization
Data Structures and Algorithms	Theory & Optimization
Neural Processing	Theory & Optimization
Internet of Things	Emerging Tech
Multi-core and Cloud Computing	Emerging Tech
Artificial Intelligence for Biomedicals	Emerging Tech
Granular Computing	Emerging Tech

Note: The electives list above is indicative. IIT Jammu 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 the discretion of the faculty and Program Directors.

Projects and Case Studies

PROJECT 1

CORTEXRAG

Enterprise Knowledge Fabric

Core Idea:
Hierarchical retrieval with multi-index routing—queries classified to specialized indices (HR→HRIS, tech→code, finance→SQL). Solve "needle in haystack" at 10M+ document scale in <2 seconds

GenAI Stack:
LlamaIndex for orchestration | Qdrant + BM25 hybrid search | Cohere Rerank for result refinement | Contextual compression | Self-querying with metadata filters | Citation extraction with source attribution

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PROJECT 2

QUERYMIND

Natural Language Analytics Engine

Core Idea:
Semantic parsing with schema-aware prompting - let a CFO ask "What was CAC trend Q3 vs Q2 by channel?" and get accurate SQL + visualization without BI team dependency.

GenAI Stack:
GPT-4 with schema injection | Vanna.ai patterns for Text-to-SQL | Few-shot prompting with query templates | Semantic caching for repeated patterns | Vega-Lite generation for auto-visualization

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Case Studies

01 Reverse Engineer

Learn feature stores, online/offline serving splits, and model versioning through dissecting Uber's Michelangelo—the platform managing 10,000+ production models with <50ms p99 latency for real-time pricing and ETA predictions.

02 Forward Engineer

Build a lightweight MLOps platform for a 10-person ML team using MLflow + Feast + FastAPI. Integrate LLM layer for auto-generating experiment summaries, model cards, and deployment runbooks from experiment metadata.

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Semester 4 | 18 / 24 Credits | Full-Time Research

Dissertation

Component	Credits	Focus
Project/Dissertation II	9/15	Novel Research Contribution
Relevant Elective from SWAYAM Portal	3	Novel Research Contribution
Elective 5	3	Novel Research Contribution
Elective 6	3	Novel Research Contribution

Total - 18 Credits



Research Deliverables (Dissertation I)

- Novel algorithm/architecture contribution
- Extensive experiments with ablation studies
- State-of-the-art benchmark comparison
- Statistical validation
- Production deployment
- Comprehensive thesis (100+ pages)

Tools & Tech Stack

Google Cloud Platform · kubernetes · Azure · docker · aws

Project Mode: Students who will follow a project mode will bring a problem relevant to the program and their corresponding industry. They have to undergo 2 more electives in semester 4, ensuring the overall credit for the project will be 18 credits (9 credits in sem 3 + 9 credits in sem 4).

Note: Students will be allowed to follow a Thesis mode or Project mode based on the Program Director's discretion and overall CGPA.

Projects and Case Studies

PROJECT 1

NEXUSAI

Autonomous Enterprise Operations Agent

Core Idea:
Hierarchical multi-agent architecture—not one LLM but a swarm that reads emails, queries databases, drafts documents, schedules meetings, executes APIs. What Devin did for coding, but for business ops.

GenAI Stack:
LangGraph for stateful workflows | CrewAI/AutoGen for multi-agent orchestration | Mem0 for persistent memory | Tool calling with function schemas | ReAct + Chain-of-Thought reasoning | Guardrails for output validation | vLLM/Ollama for self-hosted inference

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PROJECT 2

DOMAINFORGE

Specialized LLM Training Pipeline

Core Idea:
Take Llama/Mistral, specialize for medical/legal/financial via QLoRA-beat GPT-4 on domain benchmarks at 1/100th inference cost. The economics make enterprise LLM deployment viable.

GenAI Stack:
QLoRA fine-tuning with 4-bit quantization | Instruction dataset creation from domain experts | DPO alignment without reward models | Unsloth for 2x training speedup | Hugging Face PEFT | Custom tokenizer extension for domain vocabulary

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*Students may work on their own company projects and will be encouraged to do so.

Case Studies

Reverse Engineer
01
Learn hierarchical planning, sandboxed code execution, and self-correction loops through dissecting Cognition's Devin - the AI software engineer that passed real SWE-bench tasks by autonomously navigating codebases, writing tests, and debugging across multi-file changes.

Forward Engineer
02
Build ResearchPilot- an autonomous agent that searches ArXiv/ Semantic Scholar, reads PDFs, extracts key findings, synthesizes across papers, and generates literature reviews with proper citations. Integrate Mem0 for multi-session memory and human-in-the-loop checkpoints.

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Why this **M.Tech** Should Be Your #1 Choice?

India's first program to blend **AI and GenAI with Data Science**, offering context-rich learning supported by real industry projects and case studies.

CURRICULUM INNOVATION

Only **M.Tech** with Agentic AI + Production MLOps courses. Cutting edge latest tools and AI technologies

RESEARCH AND PROJECT MODES

Students will be able to follow a Research Mode or Project Mode based on their CGPA and Program Directors guidance

INDUSTRY RELEVANCE

MLOps, deployment, monitoring, cloud platforms. Build production systems, not just models.

FLEXIBILITY

21 elective courses. Customize your path: GenAI, Data Engineering, CV, NLP, IoT, Biomedical AI.

INDUSTRY RELEVANCE

Active researchers, industry collaborations, masterclasses by Industry Leaders



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Program Outcomes

At the end of the Program, the learners will have expertise in the following areas:

Technical Mastery in AI and Data Science

LEARNERS WILL:

- Build strong foundations in **Mathematics, Statistics, and Programming for AI and Data Science** through the Futurense bridge modules
- Develop hands-on skills in **Python, SQL, and data visualization** for structured and unstructured data.
- Learn to design, train, and deploy AI models using modern tools such as **PyTorch, TensorFlow, LangChain, Hugging Face, AutoGen, and Spark.**
- Gain proficiency in **Generative AI, Agentic AI, and context-aware systems,** including prompt engineering, RAG (Retrieval-Augmented Generation), and agent orchestration.
- Master key AI domains - **Machine Learning, Deep Learning, NLP, Computer Vision, and Fuzzy Logic** - to design intelligent models and pipelines.

Applied Innovation and System Building

LEARNERS WILL:

- Move beyond model-building to **end-to-end AI system design**, integrating data engineering, workflow automation, and deployment (MLOps).
- Apply **AI and Data Science** principles to solve complex problems in domains like healthcare, fintech, governance, smart manufacturing, and digital services.
- Use **Big Data frameworks** (Apache Spark, Kafka, IoT) to deploy large-scale, real-time data streams.
- **Implement Generative and Agentic AI solutions** that automate reasoning, decision-making, and content generation.
- Translate research into production-grade systems through **capstone projects and dissertations** in the third and fourth semesters.

Professional & Career Readiness

GRADUATES WILL:

- Earn **Executive Alumni Status from IIT Jammu**, providing long-term career mobility and recognition.
- Be equipped for **cross-functional AI roles** - from technical engineering to solution architecture and AI product management.
- Learn to work with **distributed, cloud-based AI environments**, leveraging MLOps, data pipelines, and ethical deployment frameworks.
- Build professional confidence through **presentations, applied projects, and research-led dissertation work** aligned with real-world use cases.
- Contribute meaningfully towards building **fair, inclusive, and socially responsible AI systems** aligned with the **AI for Bharat** vision.

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Program Director

Dr. Harkeerat Kaur is an Assistant Professor at IIT Jammu with academic and research expertise in Computer Science and Engineering. Her research interests include Computer Vision, Image Processing, Biometrics, Visual Cryptography, Artificial Intelligence, Blockchain Technologies, and Data Privacy. She holds a Ph.D. and M.Tech. (Dual Degree) from PDPM IIITDM Jabalpur and a B.E. in Information Technology from Jabalpur Engineering College.

She has international research exposure as a Visiting Researcher at the National Institute of Informatics (NII), Japan, and has contributed to government-funded research through the Privacy Enhancing Revocable Biometric Entities (PERBI) project sponsored by the Department of Atomic Energy, Government of India. Dr. Kaur is a recipient of the Best Thesis Award at CICT 2018 and First Prize at the PhD Symposium, Design Workshop 2019. Her teaching spans Design and Analysis of Algorithms, Computer Vision, Image Processing, Computer Graphics, and Computer Architecture, with a strong focus on applying theory to real-world, privacy-aware intelligent systems.



Dr. Harkeerat Kaur

Assistant Professor, Indian Institute of Technology Jammu

IIT Jammu

Campus Immersion

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The campus immersion phase is a pivotal part of the program, offering students the chance to engage in on-campus activities and sessions during the designated immersion period. This allows participants to experience traditional classroom settings and provides a platform to interact directly with IIT Jammu's renowned faculty.

A campus immersion will be conducted once every academic year. The first-year campus immersion is compulsory, while the second-year immersion is optional.
- A detailed schedule for the campus immersion will be shared ahead of the sessions.
- Boarding and lodging expenses during the immersion shall be borne by the learners.
- The cost of each campus immersion is to be paid directly to IIT Jammu by the students as per the rules and regulations of the Institute.

LIVE FACULTY SESSIONS • HACKATHONS & PROJECTS • HANDS-ON LABS • NETWORKING & MENTORSHIP

All learners are required to **Visit the IIT Jammu Campus Once a Year**, choosing from two available immersion slots per academic year.

The First Year of Campus Immersion is Compulsory, while the second year is optional.





















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Futurense Leadership Council

futurense leadership council

Co architects, Professors of Practice and Mentors of the Program

This is India's first-ever AI-driven Academic Think Tank - something no one has ever done before. We've brought together the best minds in the industry to guide and mentor our programs, giving students a hands-on, real-world experience that sets them apart.



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



Alok Tiwari
Director Of Analytics
JUNGLEE GAMES



Anand Das
Chief Digital & AI Officer
TVS



Kaushik Das
Managing Director
Catalyst



Anupam Gupta
Independent Consultant- AI/ ML Product Development
amplifyhealth



Ankit Mogra
Director - Insights & Analytics
ATHER



Nitin Srivastava
Global Head of Data and Analytics
Dr. Martens



Muthumari S
Global Head of Data & AI Studio
brillio



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
ADITYA BIRLA GROUP



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



Supria Dhanda
Co-Founder & Managing Partner
wyser



Madhu Hosadurga
Global Vice President, Enterprise AI
Schneider Electric



Saurabh Kumar
Director - Data Engineering
LOWE'S



Sharmistha Chaterjee
Head of Software and Systems Engineering



A V Rahul
Director, Analytics
Barracuda



Tushar Sahu
Director Engineering, Google
Google



Swati Jain
Partner - Digital, AI & Analytics, Deloitte
Deloitte.



Madhurima Agarwal
Managing Director -Microsoft for Startups
Microsoft



Bhargab Dutta
Chief Digital Officer, Centuryply
CENTURYPLY

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Futurense Leadership Council

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Co architects, Professors of Practice and Mentors of the Program



A V Rahul
Director, Analytics
Barracuda



Arvind Balasundram
Executive Director, Commercial Insights & Analytics
REGENERON



Ashish Dabas
Vice President
CapitalOne



Praveen Sathyadev
Head Business Growth (VP) - Analytics, Insights and AI
Course5



Srini Oduru
Head of IT Delivery and Operations
Cervello an AT Kearney company



Akshay Kumar
Research & Analytics Leader
Gallagher



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



Indrani Goswami
Associate Director
NYKAA



Vishal Nagpal
Director of Data and AI
BEST BUY



Sumon Mal
Director Engineering
SONY liv



Tushar Chahal
Chief Technology Officer
Numisma Bank



Ruchika Singh
Director , Data Science & Insights
Spotify



Krithika Muthukrishnan
Chief Data Science Officer
scripbox



Monica S Pirgal
Chief Executive Officer



Deepa Mahesh
Head - Analytics,BPS
Tech Mahindra



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



Sulabh Jain
Chief Analytics Officer
IMPACT ANALYTICS



Ashish Kulkarni
Director Applied AI
KRUTRIM



Ashutosh Shinde
Senior Director of Software Engineering
PayU



Biju Kalleppilli
Senior Director
SAP



Satish Padmanabhan
Change and Strategy Leader
standard chartered



Monishankar Hazra
Sr Director – Technology
Optum



Radhika Menon
Senior Director - Head AI Delivery
NTT DATA



Nishant Chandra
Industry Copilot Leader & Head
Microsoft

& more

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AI Clinic

Where Classroom Learning Meets Real-World Execution

The AI Clinic is a unique initiative that enables learners to immerse themselves and gain hands-on experience with AI-driven systems and tools, This approach is similar to how medical professionals develop real-world skills while working in a hospital or clinic in organizations from Day 1.

What Happens Inside the AI Clinic?

- **Live No Code Enterprise Projects:** Work on real business challenges sourced from Futurense's industry network, across marketing automation, financial forecasting, and workflow transformation.
- **AI Workflow Design and Implementation Roadmaps:** Learn to design, automate, and optimize AI-first business systems, mirroring how global enterprises deploy Generative and Agentic AI frameworks.
- **Tool Mastery in Action:** Get hands-on experience with 30+ leading AI and automationtools, from ChatGPT, Claude, and Zapier to Looker Studio, LangChain, and GitHub Copilot.
- **Guided Mentorship:** Receive one-on-one feedback from industry mentors and program faculty who review your project's AI strategy, implementation logic, and measurable ROI.



Why Does It Matter?

While most programs end with case studies, this one ends with proof of execution. Your AI Clinic projects become part of your career portfolio, demonstrating your ability to lead and deliver AI-led business outcomes, a differentiator that sets you apart in the talent market. This is where ideas become impactful, and managers become execution leaders.

Ideas Labs

Throughout the program, test startup ideas using skills you're learning. Not mandatory. But if you're entrepreneurial, this is your launchpad.

Ideate Pitch weekly. Get feedback. Test and iterate rapidly.

Build MVPs Use AI tools to build working prototypes. Test with users.

Pitch & Fund Present to VCs + founders. Best ideas get incubation support.

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Futurense Bridge Course

Before the main program begins, every learner goes through a structured Bridge Course designed to level the playing field for all backgrounds. This preparatory module ensures you start the **M.Tech** ready to learn, build, and apply, not catch up.



What You'll Learn?

The Bridge Course focuses on equipping non-AI professionals with hands-on clarity in the fundamentals before the IIT curriculum begins.

- Mathematical & Statistical Foundations for AI
- Core Programming in Python & Data Structures
- SQL & Database Essentials
- Introduction to Machine Learning Concepts
- Prompt Engineering & Generative AI Fundamentals

Outcome: Enter the program with the confidence, technical fluency, and foundational skill set needed to excel from day one.

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Breakfast Club

Not Just the Program Journey - We Support You Even When You Graduate

Futurense Breakfast Club is an alumni network of all Futurense learners, who continue to learn, collaborate, and grow together even after completing the programs.

You become part of a tribe that never stops evolving!

What You Get as a Member

01 Access the Futurense Alumni Network

02 Join Monthly Career Webinars

03 Get Referral & Member Benefits

04 Earn Recognition & Rewards

05 Learn Continuously & Collaborate

Why It Matters?

The Breakfast Club is designed specifically to ensure that learning and growth never stop! Even after graduation, you'll remain part of a network of AI-ready leaders influencing businesses, startups, and enterprises across industries.

A COMMUNITY THAT GROWS WITH YOU!

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Career Outcomes

40-120%
Average Salary Growth

150-250%
Highest Salary Growth

Job Roles after M.Tech in GenAI & Data Science

AI ENGINEER	MACHINE LEARNING ENGINEER	DATA SCIENTIST	APPLIED SCIENTIST - AI/ML
₹12-28 LPA	₹10-25 LPA	₹12-26 LPA	₹22-45 LPA

GENAI SPECIALIZATION

LLM ENGINEER	GENERATIVE AI SOLUTIONS ENGINEER
₹18-40 LPA	₹20-38 LPA

AGENTIC AI / MULTI-AGENT SYSTEMS

AGENTIC AI DEVELOPER	AUTONOMOUS AI SYSTEMS ENGINEER
₹15-35 LPA	₹22-45 LPA

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MLOPS & PRODUCTION AI SPECIALIZATION

MLOPS ENGINEER	AI INFRASTRUCTURE ENGINEER
₹18-40 LPA	₹20-42 LPA

DATA ENGINEERING SPECIALIZATION

DATA ENGINEER	CLOUD DATA ENGINEER
₹10-22 LPA	₹12-25 LPA

DEEP LEARNING SPECIALIZATION

COMPUTER VISION ENGINEER	NLP ENGINEER / NLP SCIENTIST
₹10-24 LPA	₹14-32 LPA

APPLIED AI / PRODUCT AI

AI PRODUCT MANAGER	APPLIED MACHINE LEARNING ENGINEER
₹25-50 LPA	₹20-40 LPA

Source: Naukri, Glassdoor, Ambition box, LinkedIn

Career Support

Every learner receives personalized support to transition confidently into high-impact roles across **AI, Data Science, and Intelligent Systems Engineering**. The focus is on helping you **Position, Prepare, and Perform** for the next leap in your AI-driven career.

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Career Roadmap

PROFILE, NARRATIVE & RESUME BUILDING

Craft a recruiter-ready identity with optimized resumes, LinkedIn profiles, and a strong career narrative.

CAREER-SPECIFIC TRAINING

Develop job-ready skills with role-focused training, capability tests, AI tools workshops, and continuous upskilling to match real hiring expectations.

FUTURENSE JOB BOARD - EXCLUSIVE OPPORTUNITIES

Access curated, pre-vetted roles before they hit public portals, with priority visibility for Futurense learners.

INTERVIEW PLAYBOOKS & CHEAT SHEETS

Get insider interview guidance with structured playbooks: FAQs, sample answers, frameworks, recruiter insights, and round-wise preparation.

MOCK INTERVIEWS WITH EXPERTS

Experience real interview simulations with personalized feedback from mentors, industry leaders, and FLC members.

MENTOR REFERRALS & NETWORKING

Unlock referral advantages, insider recommendations, alumni-driven opportunities, and FLC mentorship that accelerates your career entry

SALARY NEGOTIATION SUPPORT

Get guidance on positioning, benchmarking, negotiation strategy, and communication to secure the compensation you deserve.

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Is This The Right Program for You?

The M.Tech in Generative AI & Data Science by IIT Jammu and Futurense Technologies goes beyond teaching just algorithms. It trains participants to design, deploy, and manage intelligent AI systems that can reason, adapt, and scale in real business environments.

Ideal Candidates

- **Working Professionals in Software Development, Data Engineering, or Analytics** aiming to transition into Generative AI or system design roles.
- **Early-career Engineers (1-3 years)** seeking IIT-level specialization in AI-driven automation and data science.
- **Mid to Senior Technologists** leading digital, automation, or data teams who want to gain hands-on expertise in deploying AI systems.
- **Researchers and Innovators** exploring the applications of Generative AI for India's deep-tech and digital transformation sectors.

Eligibility Criteria

- B.Tech./B.E. (ECE, EE, CSE, IT, EI, ME), M.Sc. (IT/CS), MCA.
- Selection is based on the **Pre-screening Test + Personal Interview**.
- Minimum work experience of **2 Years** (work experience post minimum qualifications).
- The qualifying criterion for admission to **M.Tech** (Executive) is **CGPA of 6.0 or 60%** in the qualifying degree.
- For candidates with more than **10 Years of Experience** - Minimum **CGPA** requirement is **5.50 or 55%** in the qualifying degree.
- The applicant must qualify **Pre-Screening Test** and **Online Interview** to be eligible for this program.

Experience	Minimum Graduation% / CGPA
≥ 2 years	60% or CGPA 6.0 and above
≥ 10 years	55% or a CGPA of 5.50 or above may be considered

← Work Experience Matrix

*Online Test + Interview (Online Mode)

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Fee Structure

IIT Jammu governs the total program fee for the **M.Tech in GenAI & Data Science** and is payable directly to the institute on a year-wise basis.

PROGRAM FEE

₹4,49,000/-

Year 1: **₹2,99,000**

Year 2: **₹1,50,000/-**

One-Time Registration Fee* (Non-refundable): **₹10,000/-** (Included in Program Fees)

*Paid to Futurense Technologies towards Application Processing Fees. If the application is not accepted by IIT Jammu or by Futurense, the registration fee will be refunded in full. However, if after the issuance of the offer letter, the student withdraws or drops out for any reason whatsoever, this amount is strictly non-refundable.



Additional Costs

- Examination Fee: **₹18,000/-** **(payable along with Year 1 fees)**
- Campus Immersions: The cost of each campus immersion is to be paid directly to IIT Jammu by the students as per the rules and regulations of the Institute.per immersion (approx.)
- Travel & Accommodation: Boarding and lodging expenses during the immersion shall be borne by the students as per actuals.

If Requested a Withdrawal:

- If a student submits a **withdrawal or refund request within 30 days of the batch start date**, an amount of **₹1,49,500 (equivalent to the first semester fee) will be deducted, and the remaining balance of ₹2,99,000 will be refunded.**
- If a student submits a **withdrawal request after 30 days from the batch start date, the entire amount of ₹2,99,000 + ₹18,000 (equivalent to the first-year fee) will be deducted.**

Note: All refunds exclude the one-time registration fee, GST charges (18%), and any applicable subvention amount; these components are non-refundable.

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About

IIT Jammu

An Institution Built for Innovation and Impact

The Indian Institute of Technology Jammu (IIT Jammu) was established in **2016** under the guidance of **IIT Delhi** and has since emerged as one of **India's Fastest-growing IITs, Focusing on Innovation, Research, and Industry Collaboration.**

IIT Jammu's vision is to create technologists who innovate for India and the world by combining academic excellence with societal relevance. The institute is known for its **Cutting-edge Programs, World-class Laboratories, and Interdisciplinary Approach to Modern Engineering Education.**

The institute's ethos is characterized by a culture of mutual respect, a melting pot of creativity and collaboration, and a passionate pursuit of innovative problem-solving. The educational systems at IIT Jammu are not just about learning but are a **Comprehensive Experience**, enriched through research that culminates in practicum, reflecting the institute's dedication to developing transformational leaders.

With infrastructure designed to sustain cutting-edge research in thematic areas and a goal to impact at regional, national, and global levels, IIT Jammu is not only an institution but a legacy in the making. It is poised to mentor, support, and innovate for educational institutions, industries, and traditional sectors alike, leveraging its outreach and connectivity with communities and esteemed institutions worldwide.



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About Futurense

Futurense 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.

Impact & Ecosystem

3M+
LEARNER COMMUNITY

70+
UNIVERSITY COLLABORATIONS

10+
IIT/IIM PARTNERSHIPS

540+
TRUSTED HIRING PARTNERS

100+
MENTORS & EXPERTS

25K+
CAREERS TRANSFORMED

400+
FUTURENSE TEAM STRENGTH

65+
ENTERPRISE CLIENTS ACROSS FORTUNE 500 AND GCCS

Our Four Verticals

Futurense.uni

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

Futurense Global

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

Futurense
SCHOOL OF AI

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

Futurense.enterprise

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

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Hiring and Staffing Partners

3K keen, kinetic, kaizen
accenture
adani
ADITYA BIRLA GROUP
AFFINE
AGILISIUM Insights. Humanity. Impact.
CAPCO
ALTIMETRIK
ASHOK LEYLAND
AUTOMATION ANYWHERE
ANONE
Backbase
bluepi
Cargill
BOSCH
bread financial
CavinKart
CELEBAL TECHNOLOGIES
Chryselys
citibank
DXC TECHNOLOGY
Convergytics ANALYZE!! SOCIALIZE!! MONETIZE!!
Dr.Reddy's
DREAM11
DUCKER CARLISLE
escalent
(expleo)
EY
fresh gravity
GAIN THEORY
Gallagher
gentrack
giant eagle
digit
Grant Thornton
HAVELLS
ADITYA BIRLA HINDALCO
HMEL
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IBM
indegene
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Hiring and Staffing Partners

JCPenney · kmart · KPMG · kyndryl · LANDMARK GROUP · leadsquared

Lenovo · Levi's · LOGESYS ENABLING GROWTH · LOWE'S · PUMA · Rakuten

Schneider Electric · SIEMENS · Optum · MediBuddy · SWIGGY · Muthoot Finance

SOCIETE GENERALE · stryker · TAVANT · PHILIPS · OLA · SIGNANT HEALTH THE EVIDENCE GENERATION COMPANY

Persistent · Swiss Re · TREDENCE Beyond Possible · nagarro · Tiger Analytics · The Smart Cube

wesco · mirafra TECHNOLOGIES · CYIENT · protiviti Global Business Consulting · Raven 360 · RENAULT NISSAN

WELLS FARGO · niva Bupa Health Insurance · XINDUS exim made easy · ZS

& more

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