



International
Institute of Information
Technology Bangalore

powered by
upGrad

Executive Diploma in

Machine Learning & Artificial Intelligence

With MLOps and
Generative AI Specialisations

Duration | 12-15 months

Largest ML & AI program in India

with 9+ Years of Legacy &
10,000+ learners





powered by

upGrad

Glimpses From Convocation Ceremony





About IIITB

The International Institute of
Information Technology Bangalore (IIITB)

Established in 1998, IIITB is a premier institute known for its interdisciplinary approach, integrating technology with social sciences. Supported by the

Government of Karnataka and the IT industry, IIITB fosters strong academic-industry partnerships and attracts top talent from across India and abroad through its merit-based selection process.

The institute has graduated over 3,500 students, many of whom work at leading IT companies globally. With a focus on research and development in fields like Artificial Intelligence (AI) and Machine Learning (ML), IIITB is recognised as a leader in AI education.

Ranked 74th in the Engineering category of the National Institutional Ranking Framework (NIRF) in 2022, IIITB continues to excel in education and research, making it a preferred destination for aspiring technologists and future leaders.



AICTE



UGC

ABOUT upGrad

“upGrad is a leading global learning and workforce development company. We’re on a single-minded mission of powering career success for every member of the global workforce as their trusted lifelong learning partner.

Established in 2015, we have over 10 million learners who have upskilled in a range of online and offline programs from top universities in India and the world.”



Ronnie Screwvala
Co-founder & Executive Chairman



Current Industry Trends

15 LPA

Average salary
for Machine Learning
Engineers in India (2025)

Source: Glassdoor

36.08%

CAGR of global
Machine Learning
market till 2030

Source: Statista

50%

Increase in search
volume for 'Data Science
and Machine Learning'
since 2020

Source: Exploding Topics

74%

Annual increase in
growth of AI and
Machine Learning jobs
since 2020

Source: Careerist

\$503.4B

Size of global
machine learning market
by 2030

Source: Statista

Program Highlights

Here are the top reasons why you should consider this program



Future-Ready Curriculum

Master In-Demand and Trending Competencies



Personalised Learning Experience

Learning Experience Tailored to Your Needs



Specialisations

Specialise in two in-demand Data Science specialisations



In-Demand Tools

80+ Industry Tools, Languages, Libraries



Outcome-Driven Learning Experience

Personalised Portfolio-Building Support and Career Preparation Sessions



Best-in-Industry Experts

Decorated IIITB Faculty and Top Industry Practitioners



Golden Learning Ratio

Perfect Blend of Mathematics, Technology, and Business Understanding



Hands-on Learning

Solve 30+ Domain-Focused Assignments and Case Studies

Offline Graduation Function

On-Campus Graduation Ceremony for a Complete Program Experience

Program Impact Success Stories

Before upGrad

Tejasvy Gunturu

accenture >

Application
Development Associate



After upGrad

accenture >

Application Development
Analyst

Before upGrad

Vijeet Ved

tcs TATA
CONSULTANCY
SERVICES

System Engineer



After upGrad

tcs TATA
CONSULTANCY
SERVICES

IT Analyst

Before upGrad

Krish

MARUTI
SUZUKI

Deputy Manager



After upGrad

SAMSUNG

Lead Engineer

Before upGrad

Vikas Kumar Gupta

TATA POWER

Data Scientist



After upGrad

TIBIL™
SOLUTIONS

Senior Data Scientist

Before upGrad

Sunil Acharya

intel.

Software Engineer



After upGrad

intel.

AI Engineer

Our Transition Statistics

INR 1.23 Cr Highest Salary

433% Highest Hike

50% Average Hike

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Program Completion Certificate



Earn valuable credentials with an Executive Diploma in Machine Learning and Artificial Intelligence-equivalent to a 1-year PG Diploma and accredited with NAAC A+ (2021). Join India's largest ML AI alumni network of over 10,000 professionals.

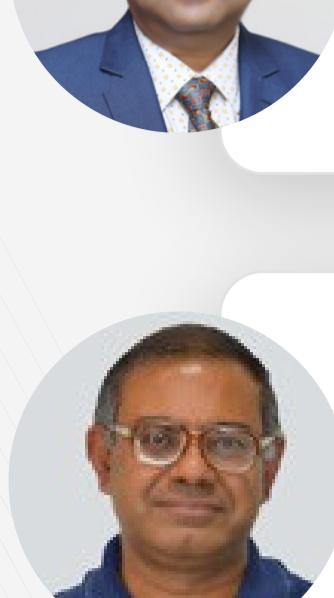
Earn Second Certificate

π Professional pack for dual specialisations



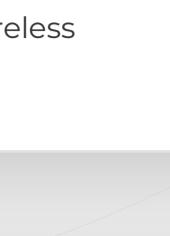
In just 3 more months learners can earn 1more specialization across both
Data Science & Machine learning specializations

Faculty

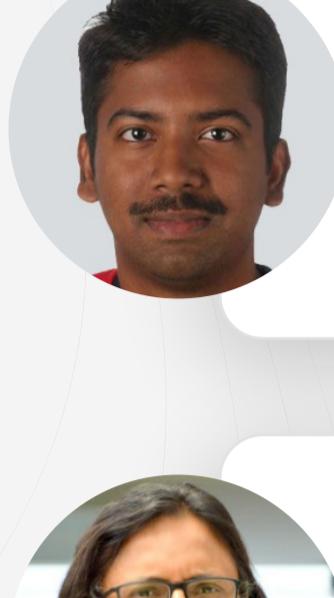


Dr. Debabrata Das

Director of IIITB

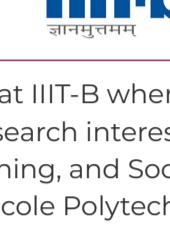


He has received his PhD from IIT-KGP. His main areas of research are IoT and Wireless Access Network.



Prof. G. Srinivasaraghavan

Professor, IIITB



Prof. Srinivasaraghavan has a PhD in Computer Science from IIT-K and 18 years of experience with Infosys Technologies and several other companies.



Dr. Dinesh Babu Jayagopi

Professor, IIITB



Dr. Dinesh is currently an Associate Professor at IIIT-B where he heads the Multimodal Perception Lab. His research interests are in Audio-Visual Signal Processing, Machine Learning, and Social Computing. He obtained his doctorate from Ecole Polytechnic Federale Lausanne (EPFL), Switzerland.

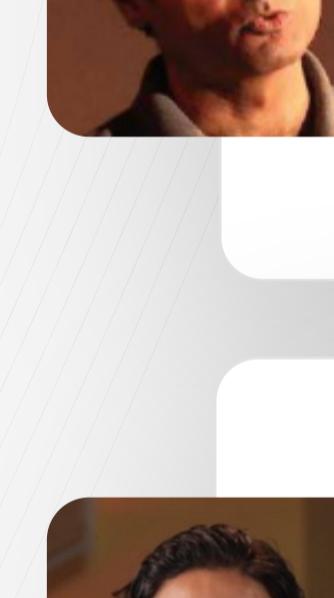


Chandrashekhar Ramanathan

Professor & Dean (Academics)



Prof. Chandrashekhar is a faculty member at IIIT-B since 2007 serving as professor, researcher and administrator. He has been working in the field of Computing for over 25 years in various capacities across industry and academia.



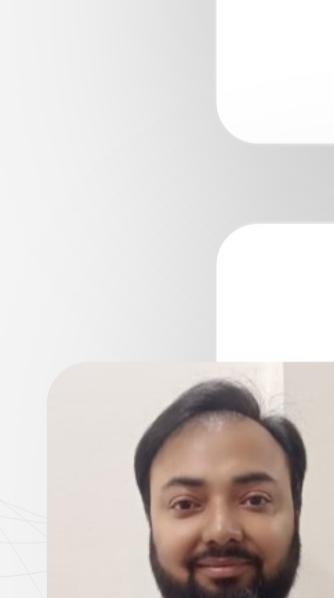
Tricha Anjali

Ex-Associate Dean



Prof. Anjali has a PhD from Georgia Institute of Technology as well as an integrated MTech (EE) from IIT Bombay.

Industry Experts

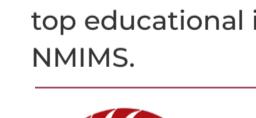


Abhishek Vijayvargia

Senior Data Scientist



Having worked with Microsoft as a Senior Data Scientist, he is an alumnus of IIT Kharagpur with 10+ years of experience in a Data Science domain

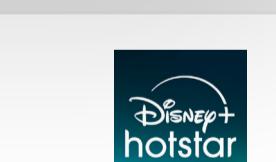


Ex-Senior Data Scientist

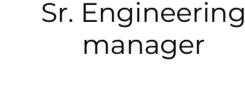


Anand

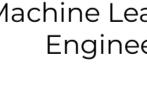
CEO



CEO, Gramener A gold medallist from IIM Bangalore, an alumnus of IIT Madras and London Business School, Anand is among the top 10 data scientists in India with 20 years of experience.



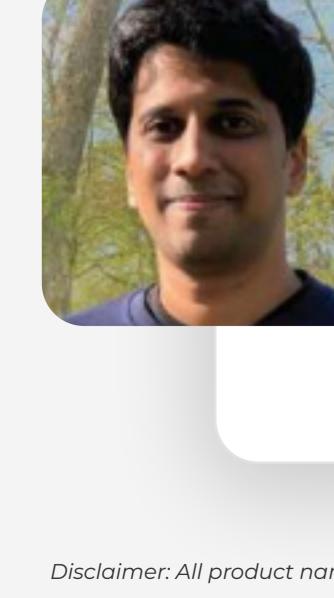
Faculty



Principal



Ex-Consultant



Manish Shukla

Head of Generative AI



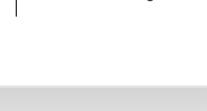
Leading cutting-edge GenAI platform development at NatWest Group. Expertise in OpenAI products and MLOps for optimisation of operational efficiency and seamless project delivery with high user satisfaction.



Release Manager



Release Manager

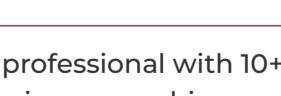


Certified Scrum Master

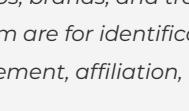
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Deependra Singh

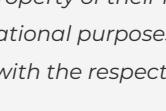
VP & Head of Data Science



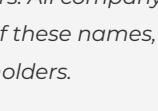
Over 15 years of experience in leading analytics practices, data science, deep learning, and AI product development. Successfully led teams at Junglee Games, American Express Digital Business, and National Insurance Company, pioneering key projects like the analytics engine for the GOI PMJAY policy. Respected speaker at top educational institutes like IMT Hyderabad, BIT Mesra, and NMIMS.



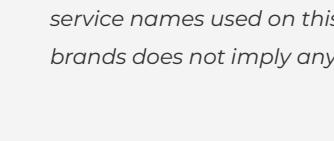
तेजस्वि नावधीतमस्तु



Machine Learning Engineer

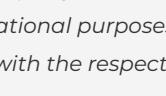


Machine Learning Research Engineer



Mirza Rahim Baig

Startup Mentor



Analytics Lead, Zalando Mirza is a veteran professional with 10+ years of experience in application of data science, machine learning in e-commerce and healthcare.

Team Lead - Product

Marketing Analytics

Ex-Analytics Lead

Assignments and Case Studies from 12+ In-Demand Business Domains



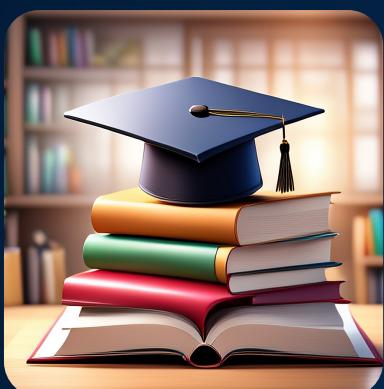
Retail & Ecommerce
ETL Pipelining with Spark



Media & Entertainment
Data Analysis using SQL



Transportation
EDA using Python



Education
Model Selection using Sklearn



Civil Engineering
Classification using CNNs



HR
Semantic Classification using Word2Vec



Manufacturing
Regularisation using Sklearn



Healthcare
Classification using Sklearn



Law
RAG using LangChain



InfoSec
Feature Engineering using Sklearn



FMCG
Big Data Analysis using Spark



BFSI
Sequence Data Prediction using RNN

Learn by Doing

Your Program Journey

Phase 0

Math and Programming Bootcamp (12 weeks)

Phase I

Core Curriculum
(28 weeks, 15 credits)

Phase III

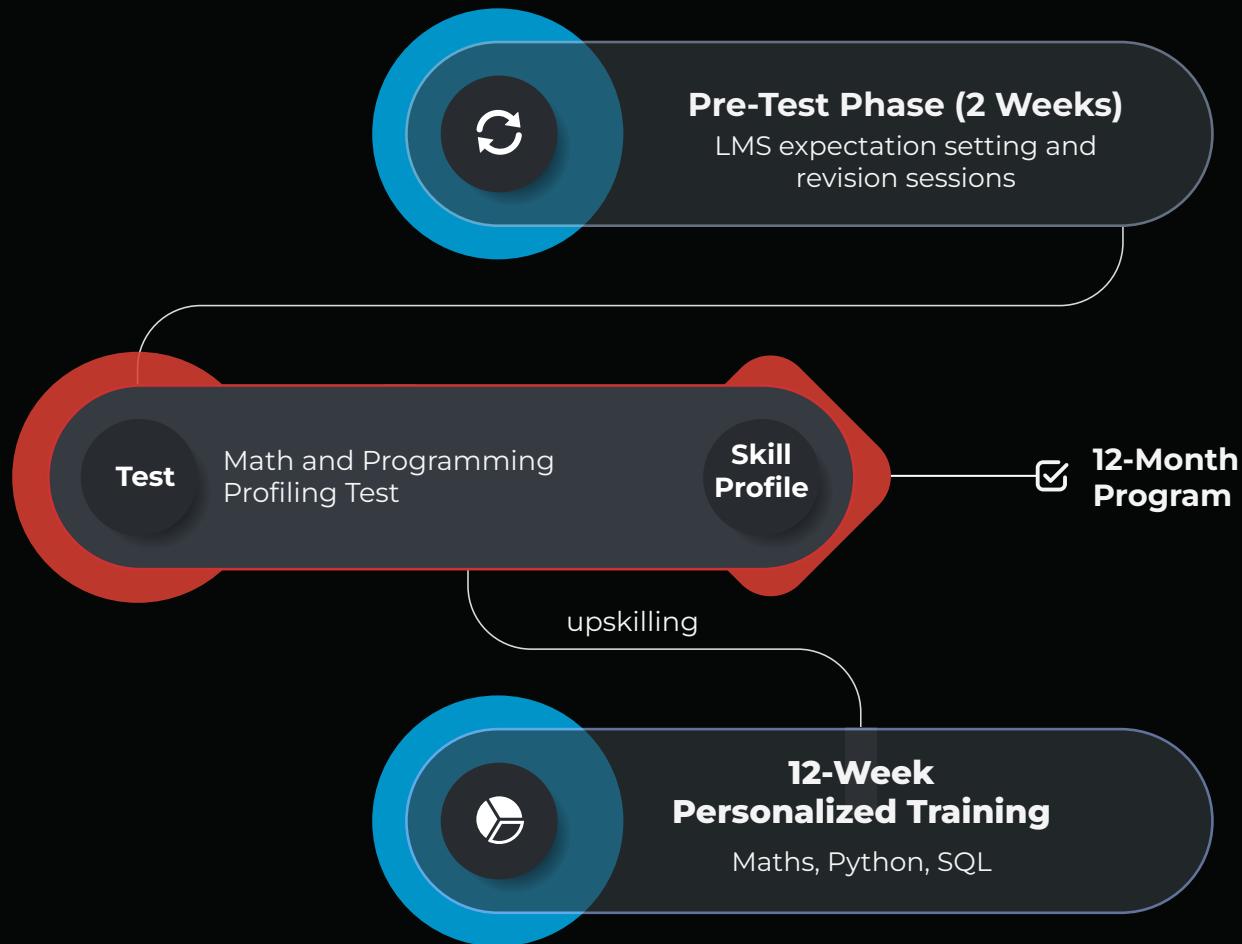
Capstone
(4 weeks, 7 credits)

Phase II
Specialisations
MLOps/GenAI

(22 weeks, 14 credits)

Applied Math and Programming Bootcamp

Personalise the initial 3 months of the program to your profile



Topics: Sets, Combinatorics, Basics of Probability, Conditional Probability, Descriptive Statistics, Functions, Vector Algebra, Derivatives, Integrals, Coding Environments, Variables, Data Types, Syntax, Conditionals, Loops, Functions, Lists, Sets, Tuples, Dictionaries, Introduction to MySQL, Basic SQL Querying

Marks Structure: Total marks - 100

- Section A - 40 marks (basic mathematics)
- Section B - 60 marks (basic programming)
- Passing marks - 25 marks in section A & 35 marks in section B

No added cost to be paid for the bootcamp

We make sure that you are well-equipped to draw the most benefit from the program!

Core Curriculum

The core phase of the curriculum will equip you with the most up-to-date and industry-relevant skills and technologies for data science and machine learning such as programming and mathematics, data analysis tools and techniques, cloud computing and big data analytics, and foundational topics in machine learning, deep learning, and natural language processing.

Topics

Advanced Mathematics for Data Science and Machine Learning

Master essential mathematical concepts to understand how to work with large amounts of data and train efficient machine learning models

- » **Conditional Probability and Probability Distributions**
- » **Advanced Linear Algebra and Linear Transformations**
- » **Multivariate Calculus**

Advanced Programming for Data Science and Machine Learning

Wrangle real-world data using universal programming languages such as Python and SQL, and use GenAI for generating and debugging code faster

- » **GenAI for Coding and Problem-Solving**
- » **Object-Oriented Programming**
- » **Python Data Science Libraries**
- » **Database Design and SQL Querying with MySQL**
- » **Introduction to NoSQL Databases**

Data Analysis and Exploration

Implement industry-standard statistical methods using tools such as Python, Tableau, and Power BI to analyse data and derive business insights

- » **Data Analysis with Python**
- » **Exploratory Data Analysis**
- » **Inferential Statistics and Hypothesis Testing**
- » **Data Analysis and Visualisation with Power BI and Tableau**

Cloud Computing and Big Data Fundamentals

Take your data processing and analysis workflows to the cloud and work with larger amounts of data to derive enterprise-scale business insights

- » **Cloud Computing with AWS, GCP, Microsoft Azure**
- » **Big Data Analysis with PySpark**

Foundations of Machine Learning

Train industry-standard machine learning models to automate insight generation and predict business metrics behaviour

- » **Machine Learning Paradigms**
- » **Linear and Logistic Regression**
- » **K Nearest Neighbors**
- » **Regularisation and Hyperparameter Tuning**
- » **Decision Trees and Ensembles**
- » **Clustering Models**

Deep Learning and Natural Language Processing

Build and train deep neural network models for different kinds of business data such as images and sequences

- » **Artificial Neural Networks**
- » **Convolutional and Recurrent Neural Networks**
- » **Lexical, Syntactic, and Semantic Processing**

Deployment Fundamentals

Share and deploy your insights and machine learning models so that other collaborators can work with your contributions

- » **Containerisation and Deployment Tools**
- » **Version Control**

Projects

Querying with SQL

Analyse Spotify music data for targeted recommendations or NDAP insurance data for risk assessment



Exploratory Data Analysis

Analyse NYC taxi operations for efficient taxi positioning or US beer production data for better brewery operation management



Big Data Analysis

Analyse Mercari products data for better targeted recommendations or customer interaction data to enhance customer engagement



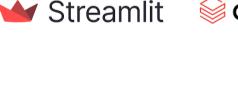
Linear Regression

Predict household energy consumption using appliance energy readings data to increase power consumption efficiency or parcel delivery time for Porter using historical delivery data for better planning and management



Deep Learning

Predict stock prices of Microsoft, Amazon, Google, IBM, using their historical stock price variations or temperature/pressure readings in Morocco using historical weather data



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CORE CURRICULUM

MLOps Specialisation

The machine learning operations (MLOps) specialisation of the curriculum will equip you with core in-demand and industry relevant skills and technologies essential for ML engineers such as advanced machine learning methods, modern deep learning architectures, real-time data processing and end-to-end data pipeline creation and monitoring, and model pipelining and monitoring at scale.

Topics

Advanced Machine Learning

Train advanced industry-oriented machine learning models for enhanced predictive power and stronger business insight generation

- » Support Vector Machines and Naive Bayes
- » Feature Engineering and Model Selection
- » Dimensionality Reduction
- » Time Series Analysis
- » Association Rule Mining and Recommendation Systems
- » Explainable AI

Advanced Deep Learning and Generative AI

Design and train advanced industry-standard deep learning architectures, and master core AI principles such as attention mechanisms, transformers, and prompt engineering

- » Advanced CNN Architectures
- » LSTMs and GRUs
- » Transfer Learning Techniques
- » Encoder-Decoder Architectures and Seq2Seq
- » Machine Translation
- » Attention Mechanisms and Transformers
- » Fundamentals of Generative AI and Prompt Engineering
- » Computer Vision, Variational Autoencoders, Generative Adversarial Networks
- » Data and Model Security Principles

Large-Scale Data Pipelining

Build complete end-to-end data pipelines and automate them to generate both batch-wise and real-time business insights

- » End-to-End Data Pipelining Fundamentals
- » Pipeline Automation with AWS Lambda, GCP Functions, and Azure Automation
- » Data Monitoring with Amazon CloudWatch, Google Cloud Monitoring, and Azure Monitor
- » Feature Stores and Vector Databases
- » Real-Time Analytics with Flink, Kafka, and Spark Streaming
- » Real-Time Analytics with Amazon Kinesis, Google Cloud Pub/Sub and DataFlow, Azure Stream Analytics and Event Hubs
- » Multicloud and Hybrid Cloud Operating Principles

Machine Learning Model Pipelining

Build end-to-end industry-ready ML model pipelines and design their functional behaviour such as training and inference

- » Model Pipelining Principles
- » Scheduling and Triggers
- » Parallel Model Training and Real-Time Model Serving
- » Data and Model Versioning
- » Model Monitoring and System Design

Projects

» Feature Engineering and Model Selection

Predict fraudulent insurance claims using the Mendeley farmers insurance claims dataset or network intrusion events using historical network activity data



» Semantic Classification

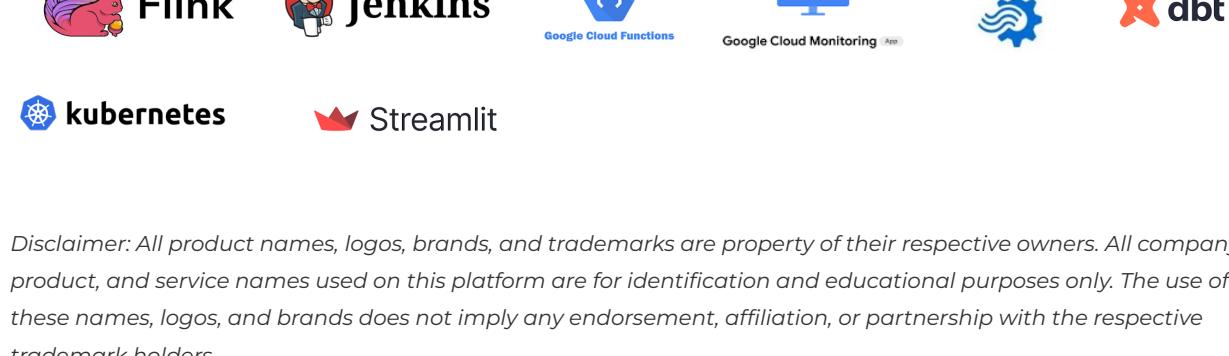
Fake News Detection, Job Role Classification

» Real-Time Data Analytics: Develop a

real-time analytics pipeline for ecommerce data to enhance customer experience or a real-time patient health monitoring system for faster corrective actioning

» Simulate and Retrigger Model Training Pipeline

Tools



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Generative AI Specialisation

The generative artificial intelligence (GenAI) specialisation of the curriculum will equip you modern AI technologies and methods, particularly generative AI technologies, essential to data scientists and AI specialists, such as advanced machine learning methods, modern deep learning architectures, advanced prompt engineering and generative AI system design, information retrieval and retrieval-augmented generation, large language model (LLM) deployment, advanced computer vision and 3D vision, GenAI optimisations, and AI ethics.

Topics

Advanced Machine Learning

Train advanced industry-oriented machine learning models for enhanced predictive power and stronger business insight generation

- » Support Vector Machines and Naive Bayes
- » Feature Engineering and Model Selection
- » Dimensionality Reduction
- » Time Series Analysis
- » Association Rule Mining and Recommendation Systems
- » Explainable AI

Advanced Deep Learning for Generative AI

Design and train advanced industry-standard deep learning architectures, and master core AI principles such as attention mechanisms, transformers, and prompt engineering

- » Advanced CNN Architectures
- » LSTMs and GRUs
- » Transfer Learning Techniques
- » Encoder-Decoder Architectures and Seq2Seq
- » Machine Translation
- » Attention Mechanisms and Transformers
- » Fundamentals of Generative AI and Prompt Engineering
- » Computer Vision, Variational Autoencoders, Generative Adversarial Networks
- » Data and Model Security Principles

GenAI System Design

Design and orchestrate generative AI systems to leverage the power of generative AI models and transform business operations

- » Advanced Prompt Engineering and GenAI System Design
- » Prompting Multimodal Models
- » LLM Frameworks such as LangChain and LLaMa Index
- » LLM Evaluation Methods
- » Data Security and Governance
- » AI Ethics

Advanced Generative AI

Develop AI-based cutting-edge industry-level systems for greater business efficiency such as retrieval-augmented generation (RAG) systems and multimodal GenAI model prompt engineering

- » Information Retrieval Principles
- » Embeddings and Vector Databases
- » RAG Architectures
- » Agentic Systems and Multi-Agent Systems
- » Advanced Multimodal GenAI Models
- » LLM Deployment
- » Advanced Computer Vision and 3D Vision
- » GenAI Optimisations

Projects

Feature Engineering and Model Selection

Predict fraudulent insurance claims using the Mendeley farmers insurance claims dataset or network intrusion events using historical network activity data



Semantic Classification

Fake News Detection, Job Role Classification



GenAI System Design

Analyse Amazon customer reviews to identify prevalent sentiments and themes to improve product offerings and enhance customer satisfaction or ChatGPT customer feedback to derive actionable insights for business improvement

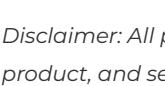


RAG

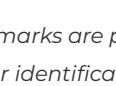
Develop an RAG system to transform Long Beach County Municipal meetings transcripts into actionable insights for better organisational communication and decision making or historical legal documentations to optimise legal workflows



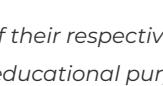
Tools



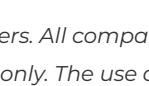
Hugging Face



Chroma



PINECONE



Milvus



Gemini



LlamaIndex



LangChain



Stable Diffusion



Claude

pgvector



Eli5



PROPHET



OpenAI CLIP

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Capstone Projects

Capstone that Adapts to Your Preference

Infuse our Capstone with Your Data

Modify existing projects as per your industry data and problems

Bring Your Own Capstone

Work on a completely novel project of your choice and solve problems that excite you

Pre-Designed Industry Capstone

Choose one of our existing projects that cover in-demand trending industry domains

Bring Your Own Capstone

Design your own capstone project relevant to your domain and interest, and get feedback throughout your capstone stages



Identify a real-world problem relevant to your domain



Source datasets aligned with your business problem



Design and implement your solution



Document your efforts and present your findings



Continuous expert feedback at every step of capstone

Build A Strong Portfolio



GitHub

- **Commits**
Demonstrate consistency, collaboration, and coding discipline
- **Code**
Showcase well-documented repositories
- **Projects**
Host end-to-end DS/ML/AI projects that highlight real-world problem-solving

GitHub helps with

- Validating coding skills
- Showing growth and consistency
- Being interview-ready for Tech roles

Kaggle helps with

- Building credibility in data science circles
- Applying learning to real datasets
- Speaking confidently in Tech interviews

LinkedIn helps with

- Improving visibility with recruiters
- Positioning better for job openings
- Networking with peers and mentors in the field

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Microsoft-Certified Advantage –

This program doesn't just prepare you for the world of Data Science & AIML—it gives you the Microsoft edge.

Learners earn industry backed certification from upGrad in association with Microsoft by completing specially designed modules integrated into the program, boosting both credibility and career readiness.



Microsoft Learn content modules Certification Modules:

- Introduction to Generative AI Concepts
- Introduction to GitHub Copilot
- Design & Manage Analytics Solutions using Power BI
- Designing & Implementing a Data Science Solution on Azure

Rich and Dedicated Live Support

Industry Expert Sessions

Engage with industry practitioners as they help you master in-demand skills and concepts using a demonstrative hands-on approach



IIITB Faculty Sessions

Learn from some of the most accomplished academicians as they take your knowledge and understanding of data science to another level

Just-In-Time Interview Support

Participate in Technical and HR mock interviews designed to boost your confidence and prepare you to ace interviews.

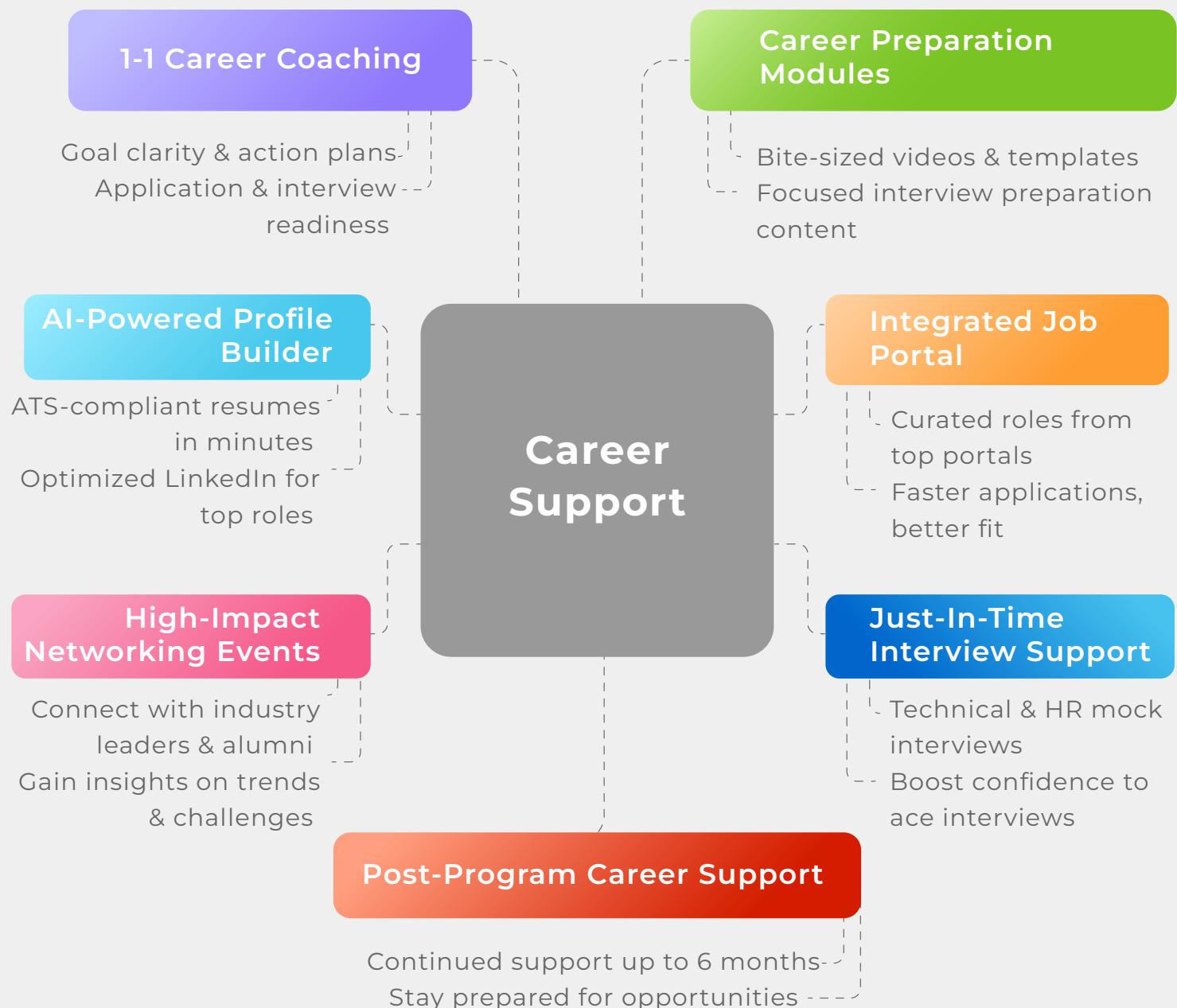
Career Coaching Sessions

Engage in Career Coaching Sessions via Career preparation modules, High-impact networking events and Just-in-time mock interviews

Daily doubt resolution sessions

Join doubt resolution session slots, that are available daily, and have an expert available to resolve your queries for a smooth learning journey

Effective and Complete Career Support



Student Support

Telegram channel for learner communications

Cohort Telegram channel for timely program updates and announcements.

Non-academic and non-technical query assistance

24 X 7 m-AI-ask bot support for non academic assistance.

Completion Support

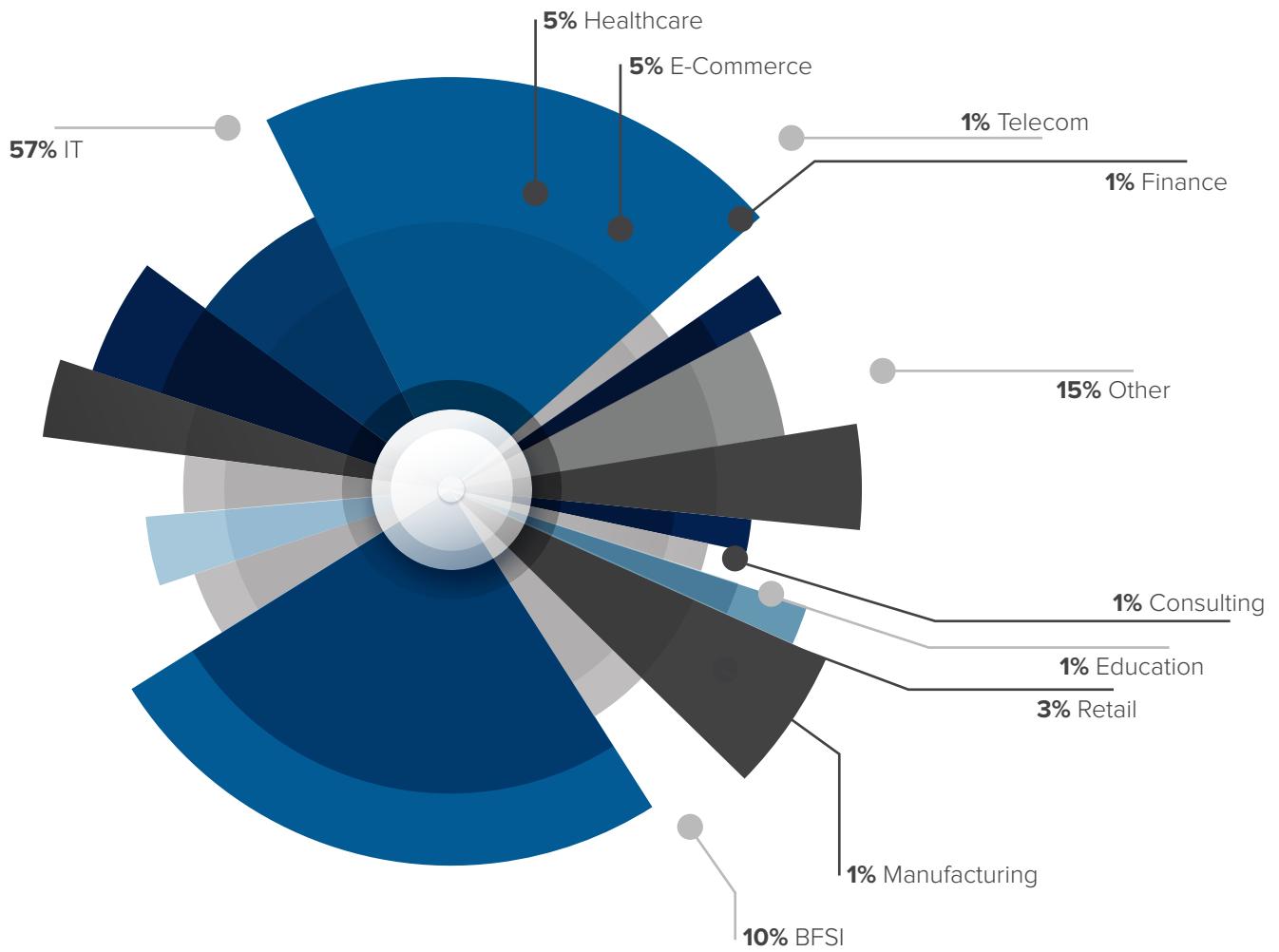
Personalised assistance for smooth program completion, managing backlogs, and cohort deferrals with free and paid waiver options.

Financial benefits

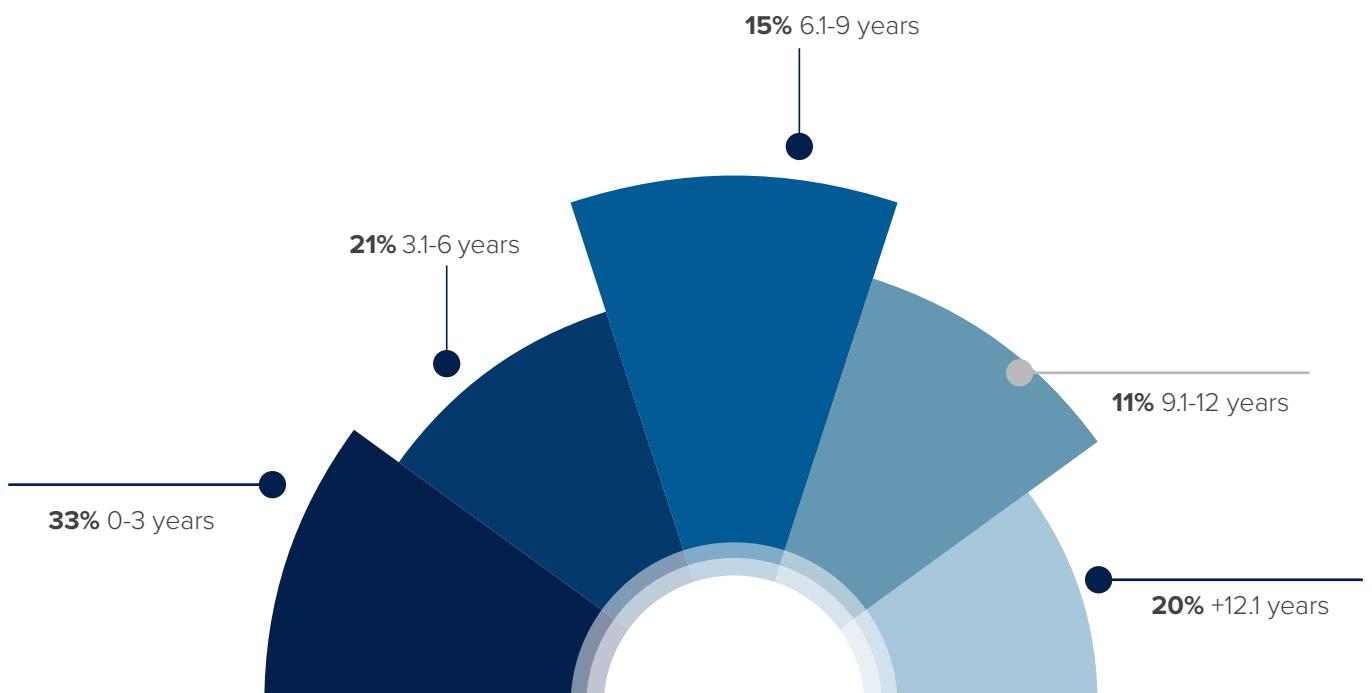
Access benefits like referrals and repeats by sharing details with your program co-ordinator or student support executive.

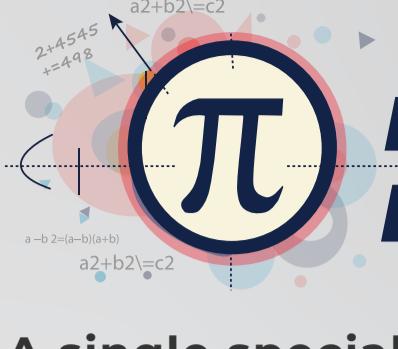
Meet the Class

Industries Our Students Come From



Work Experience





Professional pack

A single specialty is no longer enough.

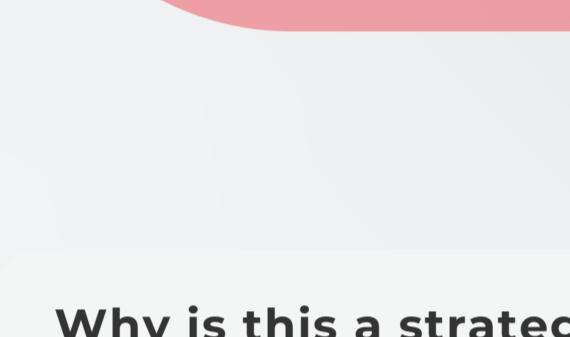
For years, the T-shaped professional was considered the gold standard—someone with broad knowledge across multiple areas (the top of the “T”) and deep expertise in one core area (the vertical stem). This model worked well in stable environments where projects moved slowly, and roles were clearly divided.

But today’s AI-driven, high-velocity world has exposed the limits of the T-shape. Knowledge silos, handoff delays, and rising complexity mean one deep skill is no longer enough.

Today’s employers need π -shaped professionals - someone with two deep, complementary specialisations while maintaining broad knowledge across domains, who can own entire project lifecycles without team dependencies, bridging the gap between development, operations, and analytics seamlessly.

Introducing The π Professional Pack

Add an extra specialisation
in just 3 months



STEP 1

Choose your primary foundation

Select your core specialisation:

**Data Engineering, Data Analytics,
Generative AI or MLOps**

STEP 2

Add your strategic second specialty

In the latter half of your program, unlock a complete second track featuring:

- ⌚ Full curriculum coverage
- 💻 Live interactive sessions with industry experts
- 🛡️ Dedicated faculty support
- 🤝 Expert mentorship across both domains

Why is this a strategic career investment?

👉 Expert in two complete specialisations

👉 Industry-validated skill combinations based on hiring data

👉 Hands-on experience in both domains

👉 Portfolio projects demonstrating π -shaped expertise

Your Competitive Edge:

While others graduate with single specialisations, you emerge as a π -shaped leader ready to:



Own complete project lifecycles



Bridge team silos and communication gaps



Command premium positions in India's GCC & IT sectors



Adapt quickly as AI continues reshaping the industry

Popular specialisation combos

GenAI + MLOps

Why Gen AI + MLOps?

Enables end-to-end ownership of Gen AI models from fine-tuning to deployment, monitoring, and safety. This pairing creates a professional who can not only innovate but also reliably deliver and manage that innovation.

GenAI + Analytics

Why GenAI + Analytics?

Unlocks AI-driven business insights with a combination of natural language queries, auto-reporting, and data storytelling. This pairing is about creating smarter and more accessible business insights.

MLOps + Data Engineering

Why MLOps + Data Engineering?

This is the ultimate combination for building robust and scalable AI infrastructure. Enables you to build an automated, end-to-end machine learning factory that is efficient, reliable, and ready for production demands.

GenAI + Data Engineering

Why GenAI + Data Engineering?

Let's combine Gen AI innovation with solid data pipelines scalable AI products. This pairing ensures that innovative GenAI projects are built on a solid foundation, allowing them to be scalable and successful in the long run.

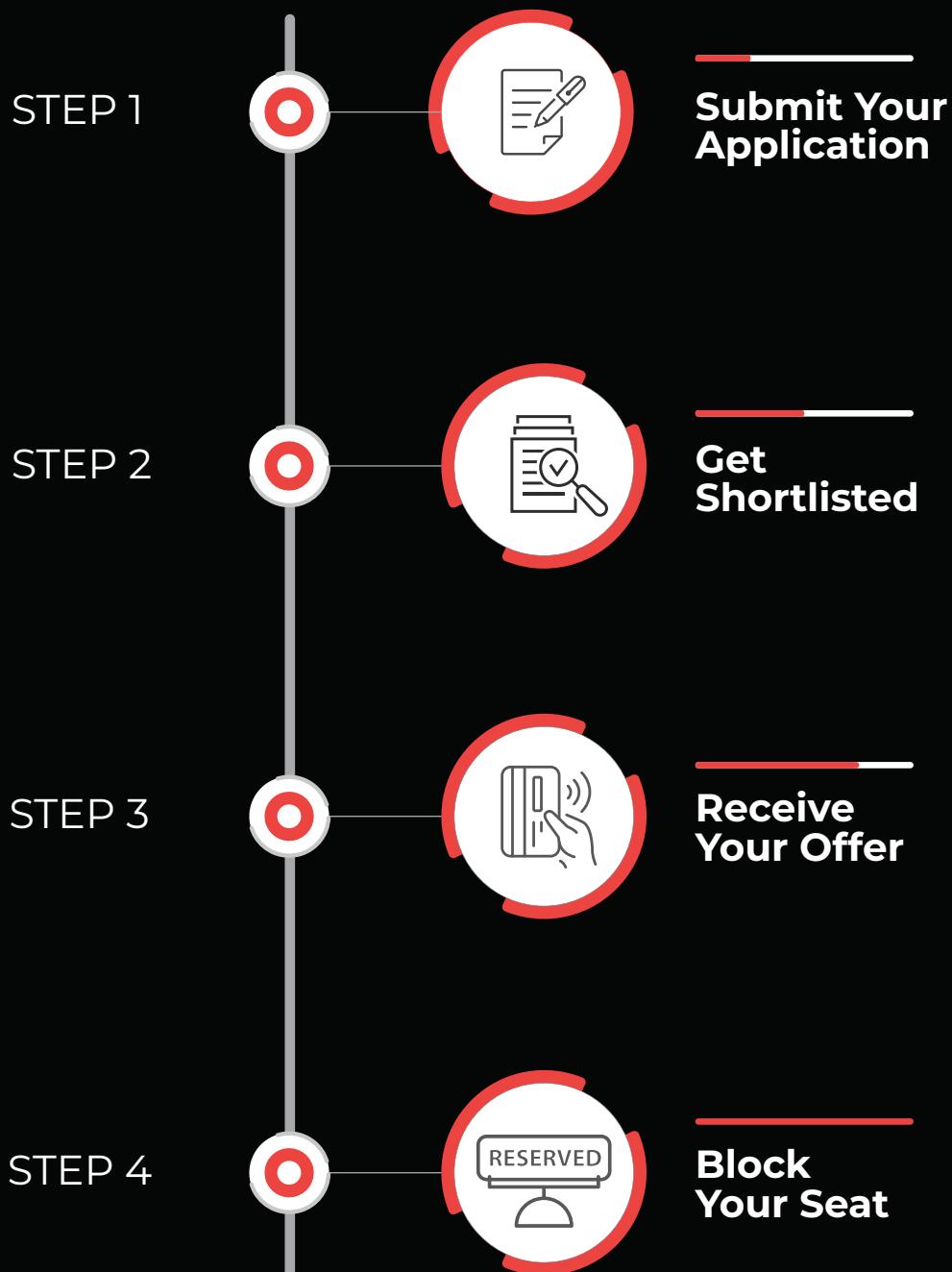


Option to articulate to a Master's degree
from Liverpool John Moores University after
successful completion of the program

LJMU

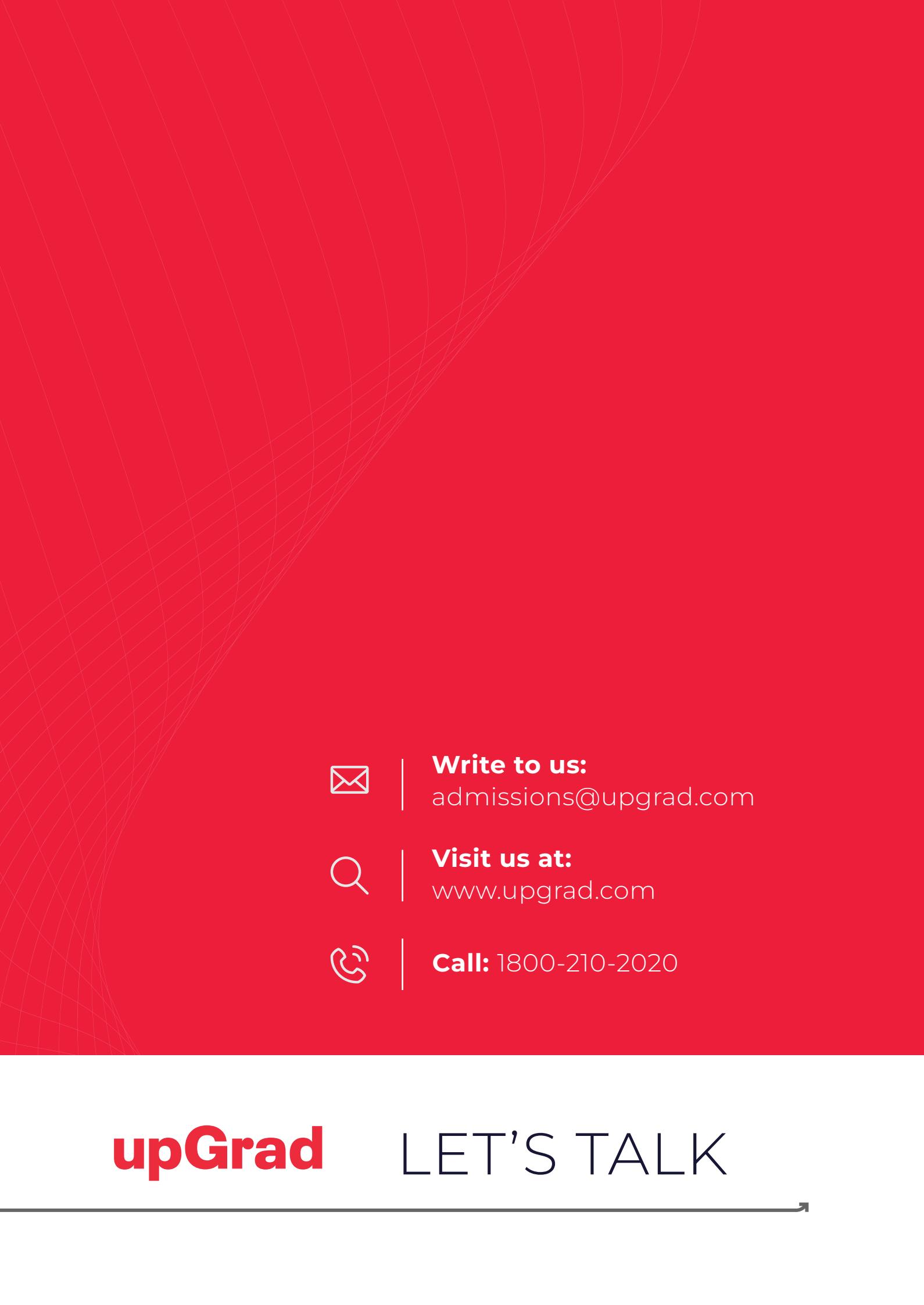


Enrol in 4 small steps,
Then take a giant leap.



Eligibility Criteria

Bachelor's or Master's Degree or its equivalent in any discipline with minimum 50% aggregate mark or equivalent CGPA.

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admissions@upgrad.com |
|  | Visit us at:
www.upgrad.com |
|  | Call: 1800-210-2020 |

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LET'S TALK