



www.inspiria.edu.in

BCA

in Artificial Intelligence & Machine Learning

4 Years | Full-Time | Industry-Integrated



Get *Life-Ready* with Inspiria

2025

BCA in Artificial Intelligence & Machine Learning:

Introduced to place graduates at the cutting edge of technology by focusing on advanced Artificial Intelligence and intelligent systems.

Trusted Recognitions



National Assessment and Accreditation Council



All India Council for Technical Education



MAKAUT, University of Technology



Institution's Innovation Council (IIC)



Recognized & Respected



Format

FULL TIME

Immersive learning
experience

Eligibility

CLASS XII

From Fundamentals to
Future-ready Skills

Approval

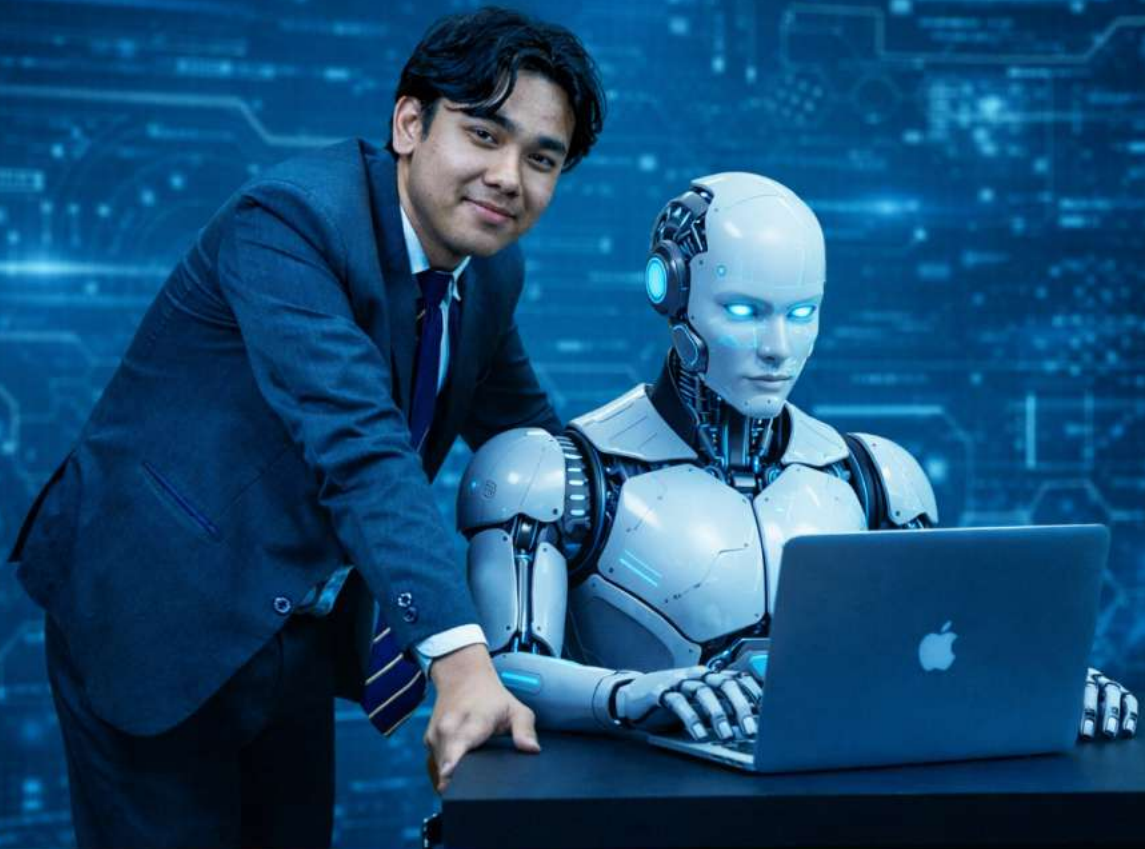
AICTE

The only AICTE-approved digital
marketing degree course in
Siliguri.

Duration

4 YEARS

3 years at Inspiria + 1 Year-
Long Internship



4-YEAR | 8-SEMESTER CURRICULUM MAP



1st Semester

- IT Service Management (ITSM)
- Introduction to Emerging Technology – I
- Introduction to Emerging Technology – I (Lab)
- Problem-Solving Techniques with C
- Problem-Solving Techniques with C- Lab
- General English – I
- Indian Knowledge System
- Environmental Science and Sustainability

3rd Semester

- Big Data Analytics
- Database Management System
- Database Management System- LAB
- AI IN SERVICE INDUSTRY – I
- Computer Architecture
- Computer Architecture- LAB
- Introduction to Artificial Intelligence/
Mathematics Foundations to Computer Science
- Yoga/Sports/NCC/NSS/Disaster Management

2nd Semester

- Problem Solving Techniques – II (C
Programming Advanced)
- Data Structure and Algorithm
- Data Structure and Algorithm - LAB
- Introduction to Emerging Technology – II
- Introduction to Emerging Technology –II LAB
- Programming with Python
- Programming with Python- LAB
- Digital Electronics
- Indian Constitution

4th Semester

- AI Applications in Manufacturing-I
- AI Applications in Manufacturing-I LAB
- Design & Analysis of an Algorithm
- Artificial Neural Network
- Machine Learning
- Python for ALML/ Mathematics Foundation
for AI-ML
- Python for ALML- LAB
- Design Thinking & Innovation

4-YEAR | 8-SEMESTER CURRICULUM MAP

5th Semester

- Natural Language Processing
- Natural Language Processing- LAB
- AI in Service Industry-II
- Advanced Machine Learning
- Advanced Machine Learning- LAB
- Quantitative Techniques
- IT law & Ethics
- Industrial Internship

6th Semester

- Generative AI
- Generative AI- LAB
- AI Application in Manufacturing-II
- Professional Elective-I
- Soft Skills
- Project

7th Semester

- Social Network Analysis
- Optimisation of ML
- Optimisation of ML- LAB
- Process Intelligence & Automation with AI-I
- Professional Elective-II
- Research Dissertation/ Internship

8th Semester

- Process Intelligence & Automation with AI-II
- Professional Elective-III
- Professional Elective-IV
- Final Dissertation/ Internship



Academic Outcomes and Industry Alignment



Year **01**

Master coding and communication

Entry-Level Tech Readiness

Outcomes

- C programming
- Analytical Thinking
- Team Communication



Year **02**

Bridge tech with business

Core Tech & Business Ops

Outcomes

- Python/Java
- SQL
- System Operations
- Networking Basics



Year **03**

Build AI, gain experience

Applied AI & Experience

Outcomes

- Machine Learning
- Automation
- Computer Vision
- CRM Tools



Year **04**

Master tech, drive innovation

Advanced Tech & Research

Outcomes

- Cloud Deployment
- Data Engineering
- IoT Integration
- Research & Analytics

Industry-Oriented CURRICULUM

To equip students with comprehensive technical proficiency and hands-on IT skills, fostering readiness for careers in software development, data management, and evolving technology domains.

Practical Learning:

Hands-on projects, labs, coding exercises, and hackathons

Industry Exposure:

Internship, live projects, company visits, and mentorship

Updated Curriculum:

Latest tools, technologies, and industry-relevant subjects

Skill Development:

Soft skills, problem-solving, teamwork, & communication.

Discover:

a unique
undergraduate program



Practical Curriculum

01

Full-Stack Development

- Frontend: HTML, CSS, JavaScript
- Backend: Node.js, Python (Django/Flask), PHP
- Tools: Git & GitHub

02

Database & Data Management

- Databases: MySQL, MongoDB
- Tools: SQL Workbench, Firebase

Transforming
theory into
practice

03

Cloud & Deployment

- Cloud: AWS, Google Cloud
- Deployment: Heroku, Netlify, Vercel
- Tools: Docker

04

Emerging Technologies

- AI/ML
- Blockchain
- AR/VR

Hands-on Experiential Learning

01

High end Computer Labs
with latest Softwares



02

Visit to Data centres &
High Performance
Computing Units

03

Application driven
learning through Projects



Supplementary value-added seminars & sessions



Cybersecurity



Artificial Intelligence

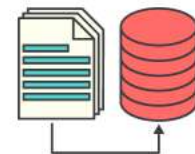


Data Analytics and BI

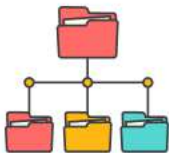


UI/UX Designs

Technical Mastery (Hard Skills)



Databases



Data Structure & Algorithms



Cloud Computing



Full stack developer

Professional Competence (Soft Skills)



Project Management



Communication & Team work



Quantitative Aptitude



Technical Writing

Learning Ecosystem



Campus Powered by:
Google Apps



State-of-the-Art Labs with:
High-Speed
Connectivity



Tech enabled:
Classroom Environment



Well-equipped library and
Digital Knowledge Hub



Digital Classrooms
Learn, track, and grow all in one
modern LMS platform.



Customized for
Seamless communication,
smarter learning.

One Mindset

From Hard Coders to Non-Coders We Nurture All



Low Code



Hard Code



No Code

We Encourage Every Talent.

Academia-Industry Fusion

FROM CODE TO CAREER
WEB DEVELOPMENT JOURNEYS THAT INSPIRE

ABHISHEK SHARMA
Head of Engineering @ Knowledge & Portal Studios

BINOD MANALI
Engineering Manager at Transatel

SATRUPA
Head of Delivery - Portal Studios
Development L2, Productive
DataCals Beverage Pvt Ltd,
Cognoscenti Pvt. Ltd.,
Ablaya India Group

13TH FEBRUARY
1:30 PM ONWARDS

VENUE: JEEPRATI HALL, E,
INSPIRA KNOWLEDGE CAMPUS

INSPIRA
3 Day Workshop
by Appseconnect

Day1: Usage of APIs in Business Applications: REST, GraphQL,
Day2: Business Process Management through Applications
Day3: Importance of Channel/Network

02/12/2024 - 06/12/2024 Starting At 3:00pm

INSPIRA
ACHNET
Portal Demonstration

Demonstrator:
Dr. Surendra Nadig

09 DECEMBER, 2024
03:00PM ONWARDS

Seminar Hall-1
Inspira Knowledge Campus

Industry Mentors

Support that Strengthens Beyond Studies



Atul Gupta
CEO, APPSeCONNECT



Abhishek Gupta
Founder, Codebuddy



Santosh Panda
CEO, Explore



Vinay Pagaria
CTO, Stockedge



Abhishek Rungta
Founder, INT Global



Srish Agarwal
Founder,
A1 Future Technologies



Mrityunjay Kumar
Asso. Prof.



Kashi K S
Chief AI Officer at
Alfahive Inc



Swagata Chakraborty
Designer, APPSeCONNECT



Rakesh Mondal
AI-First SaaS UX/UI,
Enterprise Product Designer



Sri Harsha Mallepudi
Product Design @
CostGPT



Penchen Dorjee Tamang
AI Expert, Bushiso.one

Workplace-ready Experiences

Hackathon & Coding challenges

Platforms like HackerRank, CodeChef, LeetCode, HackerEarth, & Codeforces help them build confidence and industry-ready projects.

Mock-X Campuso & Office simulation

Mock interviews and office simulations prepare students for real corporate environments. It builds confidence, communication, and professionalism.

Networking Opportunities

Mentorship and Industry guidance.

Soft-Skills Training

Soft-Skills Training equips students with communication, teamwork, and leadership abilities to thrive in professional environments.

Professional tools & Platforms

GitHub for collaboration, VS Code, Docker and Kubernetes for deployment, NumPy, Pandas, Matplotlib, R, Tableau, Power BI, Excel, MySQL, PostgreSQL etc. for DBA.

Innovation, Research & Entrepreneurship

We foster Innovation, Research, and Entrepreneurship to transform ideas into impactful solutions and future-ready ventures



Internships

Start in Year 3



Early Exposure

Experience real-world workflows and Industry practices



High Participation

100% of students intern within their third year.



Global Opportunities

Promoting the Global Integration of Skilled Students.



1:1 Mentorship

1:10 Mentor-to-Student Ratio Ensuring personalized guidance and support for Projects, Internship & Placement.



Innovation in Action: Hackathons

Presented by **codebuddy** | **INT.**

< AIGNITE '25 />

East India's Largest AI <hackathon/>

Kolkata & Siliguri

Open for professionals & students.

APRIL 19-20 2025

PRIZES ₹5L WORTH

A GOLDEN CHANCE TO GET YOUR AI IDEA FUNDED & INCUBATED

Register at: aignite2025.com

Judges

- Abhishek Gupta, Founder, Community
- Santosh Panda, CEO, Suravy
- Abhishek Bhatnagar, Founder, NT Group
- Debashish Sen, Founder, i40
- Vishay Prasad, CEO, Knowledge
- Atul Gupta, CEO, iFFaC@INCENT

In association with **Heritage Institute of Technology** and **Inspira Knowledge Campus**

In association with **marqera** | Organized by **INSPIRIA KNOWLEDGE CAMPUS**

24-Hour UI/UX Sprint Design-a-thon

Design smart, inclusive product prototypes in Figma to solve real-world problems.

MAY 09-10 2025

Prizes **₹50K WORTH**

Register Now and Submit Your Idea (Individual Participation Only)

inspiria.edu.in/Design-a-thon

Scan to Register



www.inspiria.edu.in

Student Endeavours and Notable Accomplishments

Venturecraft- Eureka 2025 Zonal Round Winner



Tanmoy Saha-2023



Ayan Sunwar-2023

Algnite Hackathon 2025 Champions



Bhumi Ghosh-2024



Dristi Sarkar-2024

Active Toastmaster



Sneha Keshri-2024



Joy Kalundia -2025

Student Google Student Ambassador



Prithyarth Pradhan-2024

Alumni iTalk Session

Where Yesterday Inspires Tomorrow



Alumni Insights:
Stories of Success!



Lily Lepcha
Batch: BCA 2017
Senior SPS Associate L3
Amazon

31 March 2025
2:00 p.m. | Seminar Hall 1

JOIN US



BEAUTY KHATOON
(BATCH 2016-2019)
► Country Coordinator at Life Project 4 Youth (LP4Y)

19th SEPTEMBER 2024 | 02:30AM

► Seminar Hall -2, Inspiria Knowledge Campus



MANISH SHARMA
(BATCH 2019-2022)
► Founder & Director of The North East Journal

11th SEPTEMBER 2024 | 11:30AM

► Seminar Hall -2, Inspiria Knowledge Campus

Competency Outcomes

Domain I: Computational Foundations

Outcome 1.1: Software Development Proficiency

Outcome 1.2: System and Database Management

Outcome 1.3: Algorithm and Data Structures Mastery

Domain II: Data Science and Statistical Analysis

Outcome 2.1: Data Engineering and Preprocessing

Outcome 2.2: Inferential and Predictive Analytics

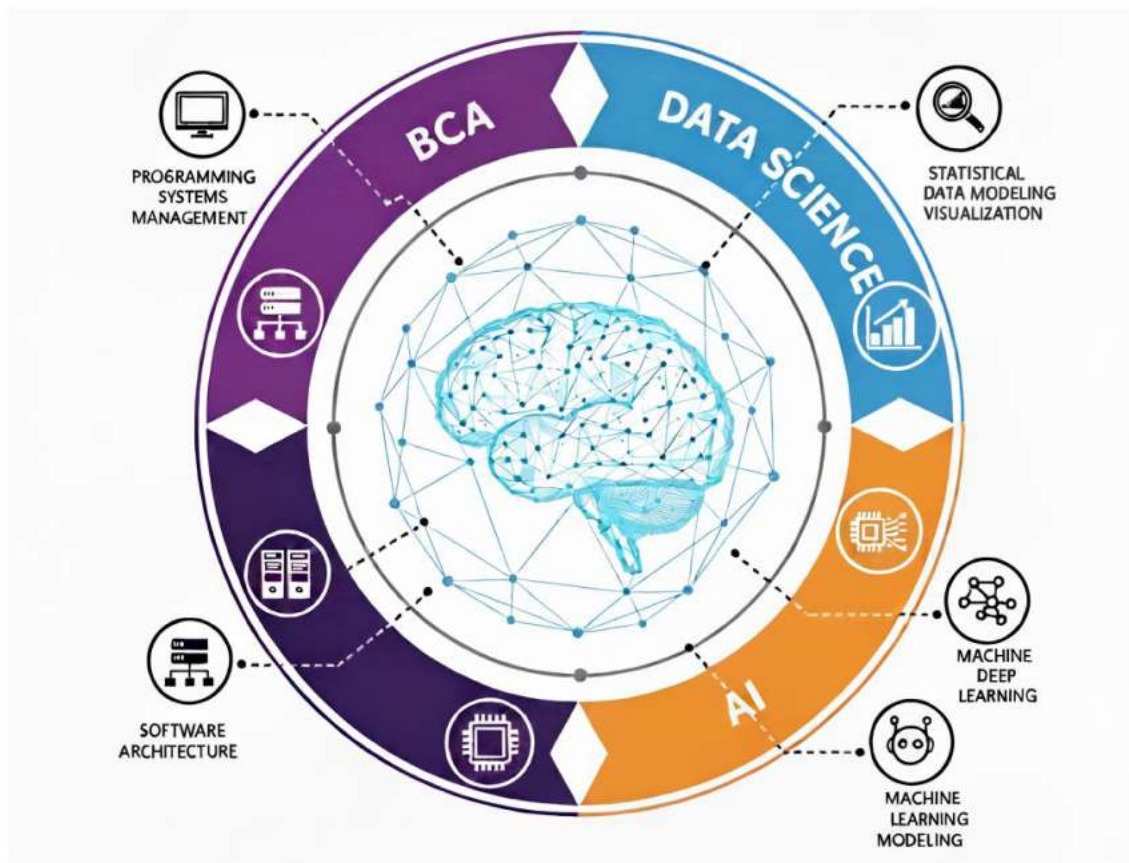
Outcome 2.3: Big Data Fundamentals

Domain III: Artificial Intelligence and Machine Learning

Outcome 3.1: Machine Learning Model Development

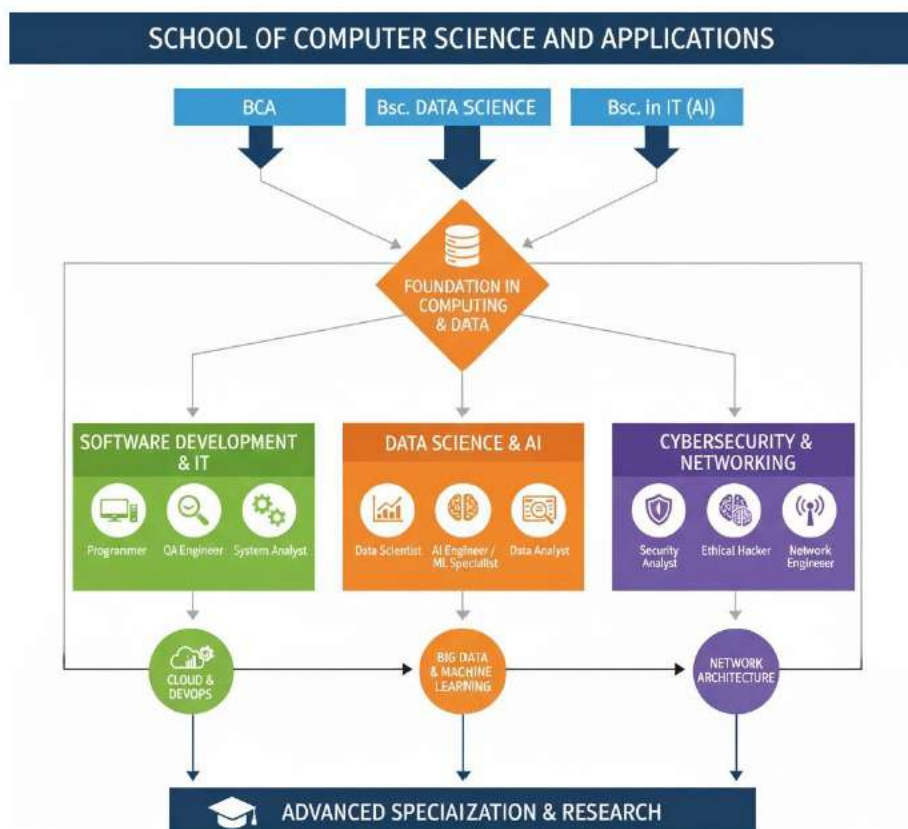
Outcome 3.2: Deep Learning Implementation

Outcome 3.3: Model Deployment and Governance (MLOps)



Structured career routes available to students

Career Stream	Core Roles (Entry-Level)	Primary Skills to Master NOW	Ideal Course Link
Software Dev	Junior Programmer, QA Tester, Dev Trainee	Programming (Python/Java), Web (HTML/JS), SQL	BCA, BSc IT (AI)
Data & Analytics	Data Analyst, BI Trainee, Database Admin	SQL, Statistics, Python (Pandas), Data Viz (Tableau/PowerBI)	BSc Data Science, BCA
Cybersecurity	Security Analyst (Tier 1), Network Trainee	Networking (TCP/IP), Linux, Security Concepts	BCA, BSc IT (AI)
Advanced Tech	Cloud Intern, AI/ML Intern	Cloud (AWS/Azure), Advanced Math/Stats, ML Concepts	BSc IT (AI), BSc Data Science



Placement

Bridging Education and Employment



INSPIRIA
KNOWLEDGE CAMPUS

Congratulations

Bachelor of Computer Application (2022-2025)

Baba The

Rishi Kumar Sharma

Deep Sarkar

Aditya Jaiswal

Placed at

DMX

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Congratulations

Bachelor of Computer Application (2022-2025)

Shayan Sarkar

Placed at

GOPALDHARA
SINCE 1982

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Congratulations

Bachelor of Computer Application (2022-2025)

Varij Nayan Mishra

Selected as Intern at

Blue Minch

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Congratulations

Bachelor of Computer Application (2022-2025)

Sandesh Shreshtha

Placed at

Firdel Studios

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Placement

Bridging Education and Employment




Congratulations
Bachelor of Computer Application (2021-2024)


Neha Sharma

Placed at



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Congratulations
Bachelor of Computer Application (2020-2023)


Yuvraj Bhatrakoti


Srinjoy Sen

Placed at



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Congratulations
Bachelor of Computer Application (2021-2024)


Akash Gupta

Placed at



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Congratulations
Bachelor of Computer Application (2021-2024)


Ronit Debnath

Placed at



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Placement

Bridging Education and Employment



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Bachelor of Computer Application (2021-2024)

Swarnajyoti Dhar

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INSPIRIA
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Congratulations

Bachelor of Computer Application (2020-2023)

Rishika Thapa

Intern at

www.inspiria.edu.in

INSPIRIA
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Congratulations

Bachelor of Computer Application (2021-2024)

Tanmay Das

Placed at

www.inspiria.edu.in

Meet the **faculty**

Faculty Perspectives That Turn Theory into Reality



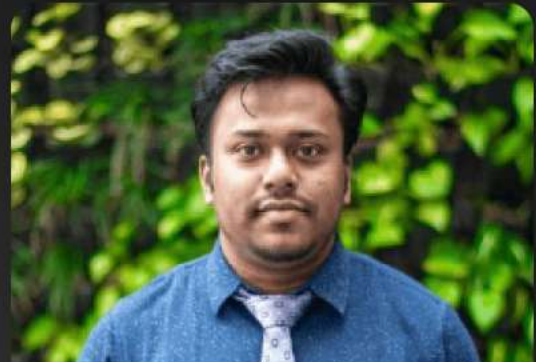
Subhro Sarkar



Neha Thapa



Tanmoy Ghosh



Nandan Das



Pritam Taldhi



Aritra Dey

Lead the **Future**

Building the Next Generation of Innovators:
Software Developers, Data Scientists, Cybersecurity Professionals,
AI/ML Engineers, Web & App Developers,
Business Intelligence Experts, and AI-driven Product Leaders.



Inspiring future generations!

Learn, innovate, and create solutions that shape the future—because your journey as a tech leader starts here.





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Inspiria Knowledge Campus

Himachal Vihar, Phase - II,
Matigara, Siliguri, West Bengal - 734010

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