



[www.inspiria.edu.in](http://www.inspiria.edu.in)

# BCA

## in Data Science & Cyber Security

4 Years | Full-Time | Industry-Integrated



Get *Life-Ready* with Inspiria

# 2022

## BCA in Artificial Intelligence & Machine Learning:

B.Sc in Data Science: Launched to meet the critical, rapidly growing demand for Big Data analysis and business intelligence professionals.

## Trusted Recognitions



National Assessment and Accreditation Council



All India Council for Technical Education



MAKAUT, University of Technology



Institution's Innovation Council (IIC)





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

Recognized & Respected



# 4-YEAR | 8-SEMESTER CURRICULUM MAP



## • 1st Semester

- Basic Mathematics & Statistics
- Introduction to Computing & Programming with C with Life Skills & Personality Development.

## • 2nd Semester

- Database Management System
- Data Structure, Algorithm with IT Skills, Critical Thinking & Organization Behaviour

## • 3rd Semester

- Statistics for Data Sc - 1
- AI & ML - 1 with Cyber Security & Human Rights and Law

## • 4th Semester

- Statistics for Data Sc - 2
- AI & ML - 2
- Python for Data Science

## • 5th Semester

- Discrete Mathematics
- Natural Language Processing
- FYBMS 581: Internship

## • 6th Semester

- Big Data Analysis
- Time Series Analysis
- Data Visualization with Career planning

## • 7th Semester

- Deep Learning in AI
- Data Security
- RM /PM with Intellectual Property Rights

## • 8th Semester

- Social Network Analysis
- IOT & Sensor Data Analysis
- Research project

# The Four Pillars of Data Science



## 01 Year

### ADVANCED EXCEL & DATA VISUALIZATION

- Build interactive dashboards
- Perform complex data cleaning
- Statistical analysis using Data Analysis ToolPak
- Automate repetitive tasks

## 02 Year

### PYTHON PROGRAMMING FOR DATA ANALYSIS

- Clean and transform datasets
- Perform numerical computations
- Build exploratory data analysis (EDA) reports
- Handle real-world datasets

## 03 Year

### SQL & DATABASE QUERYING

- Write complex queries
- Design normalized tables & ER diagrams
- Perform data extraction and filtering
- Build end-to-end data pipelines for reporting tasks

## 04 Year

### BUSINESS INTELLIGENCE (BI) & DATA STORYTELLING

- Create interactive BI (Power BI/ Tableau) dashboards
- Apply DAX calculations for data modeling
- Perform KPI tracking, trend forecasting & What-If analysis
- Convert reports into business narratives

**Become the Analyst Every Company Wants**



# 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

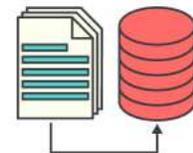


Data Analytics and BI

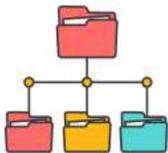


UI/UX Designs

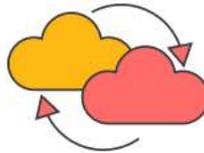
## Technical Mastery (Hard Skills)



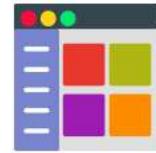
Databases



Data Structure & Algorithms



Cloud Computing



Full stack developer

## Professional Competence (Soft Skills)



Project Management



Communication & Team work



Quantitative Aptitude



Technical Writing

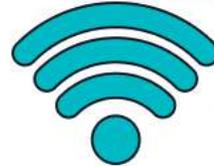
# Learning Ecosystem



Campus Powered by:  
Google Apps



Tech enabled:  
Classroom Environment



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



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

**INSPIRIA**

### 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 LLP, Productive SocialCafe Beverage Pvt Ltd, Cricicketz Pvt. Ltd, Aditya Birla Group

**13<sup>TH</sup> FEBRUARY**  
1:30 PM ONWARDS

VENUE: JEEPRATI HALL E, INSPIRIA KNOWLEDGE CAMPUS

www.inspiria.edu.in

**INSPIRIA**

### 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

www.inspiria.edu.in

**INSPIRIA**

### ACHNET

Portal Demonstration

Demonstrator: **Dr. Surendra Nadig**

**09 DECEMBER, 2024**  
03:00PM ONWARDS

Seminar Hall-1  
Inspira Knowledge Campus

www.inspiria.edu.in

# 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

 < AIGNITE '25 /> Presented by  | 

## 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](https://aignite2025.com)

**Judges**

 Founder, Community	 CEO, Surovy	 Founder, AI Grid	 Former IIS	 CTO, Knowledge	 CEO, IFFACONNECT
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In association with  Heritage Institute of Technology  Inspira Knowledge Campus

In association with  Organized by 

 **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**

**UI/UX**

Register Now and Submit Your Idea (Individual Participation Only)

[inspiria.edu.in/Design-a-thon](https://inspiria.edu.in/Design-a-thon)

Scan to Register 

[www.inspiria.edu.in](https://www.inspiria.edu.in)

# Student Endeavours and Notable Accomplishments

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**Leher Dangal-2024**

Best Paper Presenter National  
Transdisciplinary Conference



**Himanshu Katwal-2024**

WAKO India State Kickboxing  
Championship-2024



# 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

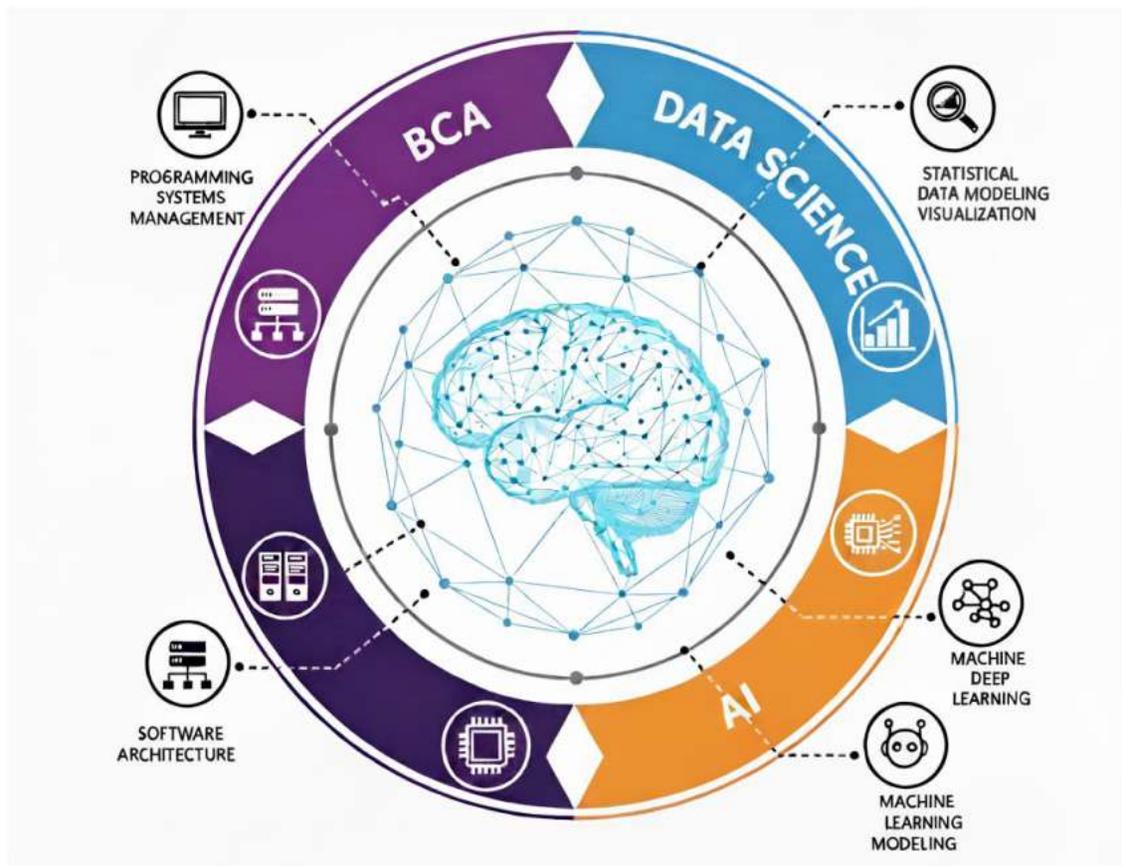
Outcome 2.3: Big Data Fundamentals

Domain III: Artificial Intelligence and Machine Learning

Outcome 3.1: Machine Learning Model Development

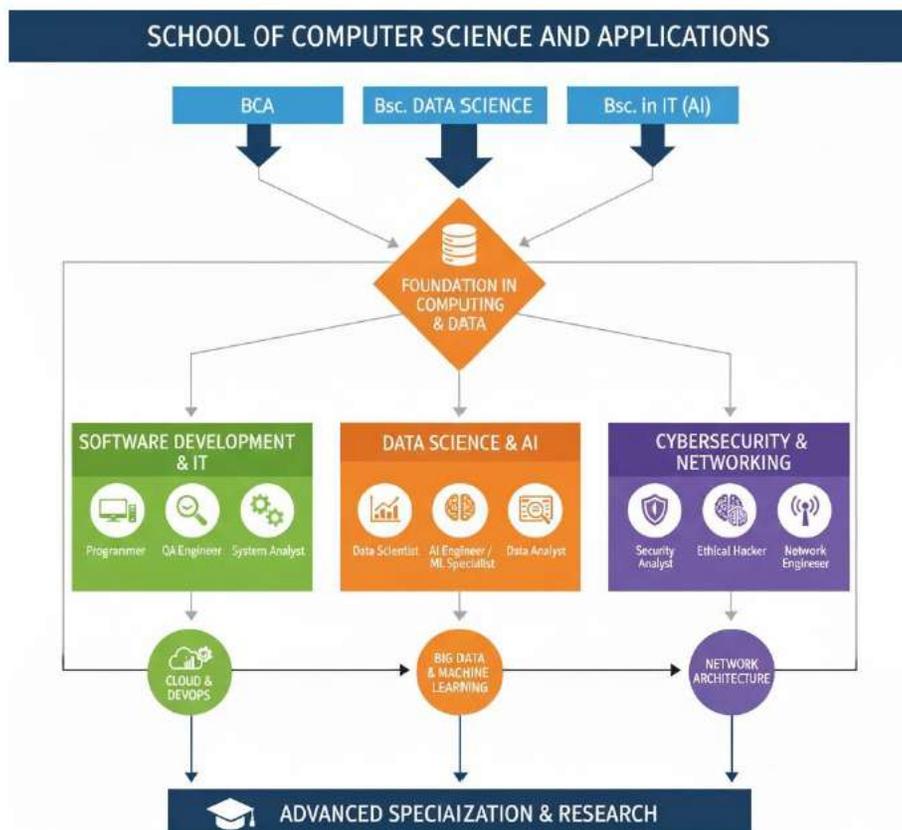
Outcome 3.2: Deep Learning Implementation

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



**Md Afridi Hasan**

B.Sc. in Data Science (2023-2027)

Placed at

**TECH mahindra**

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INSPIRIA KNOWLEDGE CAMPUS

ACBQ

ASSOCIATION OF AMBA

ASSOCIATION OF MBAS

ASSOCIATION OF MBAS

ASSOCIATION OF MBAS



INSPIRIA KNOWLEDGE CAMPUS

CONGRATULATIONS

**Roshni Khatoon**

B.Sc in Data Science (2022-2025)

Placed:

**TECH mahindra**



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CONGRATULATIONS

**Khushi Prasad**

B.Sc in Data Science (2022-2025)

Placed:

**TECH mahindra**



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CONGRATULATIONS

**Aryan Sharma**

B.Sc in Data Science (2022-2025)

Placed:

**TECH mahindra**



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ASSOCIATION OF MBAS

ASSOCIATION OF MBAS

# 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.





[www.inspiria.edu.in](http://www.inspiria.edu.in)

**Inspiria Knowledge Campus**

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

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