



PARVATHANENI BRAHMAYYA SIDDHARTHA COLLEGE OF ARTS & SCIENCE



WELCOME TO OUR DEPARTMENT OF



DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

B.Sc. Honours (Artificial Intelligence) | B.Sc. Honours (Data Science) | B. Sc. Honours (Data Analytics)



Our comprehensive curriculum combines theoretical knowledge with practical application, equipping students with essential skills for thriving in these rapidly evolving fields. With hands-on learning, state-of-the-art facilities, and industry-leading tools, our students are well-prepared for successful careers in academia, industry, and beyond.

Our distinguished faculty, passionate about teaching and research, guide students in addressing significant global challenges through groundbreaking research. We emphasize interdisciplinary collaboration, encouraging partnerships across fields and with industry leaders. Our strong connections with research institutions and industry provide students with valuable opportunities for internships, collaborative projects, and networking, enhancing their professional growth and career prospects. Join us to shape the future of technology and empower the next generation of leaders with the knowledge and tools to make a substantial impact.



Explore career advantages in Data Science & AI with our innovative programs!

Explore the achievements of our InnoUdayVoyagers, defining our department's excellence!

PROGRAMS OFFERED

B.SC. HONOURS (ARTIFICIAL INTELLIGENCE)

Our B.Sc. Honours (Artificial Intelligence) program prepares students to develop AI applications, solve complex problems, and engage in cutting-edge research. The program includes specializations in Decision Making and Robotics, Machine Learning, Perception and Language, and Human-AI Interaction.

Program Highlights:

- Duration: Four Academic Years
- Intake: 50 students

Key Features:

- Capstone AI project in Semester 4
- Industry Internship in Semesters 5/6
- Multiple exit options with certifications
- Reflects NEP 2020 aspirations
- Emphasis on research initiatives and innovation

Why Choose B.Sc. AI?

- Future-proof skillset essential for big data and complex decision-making.
- Diverse career paths in technology, healthcare, finance, and more.
- Opportunities for engaging in research projects and contributing to advancements in AI.

B.SC. HONOURS (DATA SCIENCE)

The B.Sc. Honours (Data Science) program is a four-year full-time course that spans computer science, business analytics, and artificial intelligence. It equips students with skills in statistics, big data analytics, machine learning, and more to solve real-world problems.

Program Highlights:

- Duration: Four Academic Years
- Intake: 50 students

Key Features:

- Applied Statistics, Data Mining, Predictive Modelling, and Big Data Analytics
- Hands-on experience across various sectors such as business, healthcare, banking, and more
- Core programming languages: Java, SQL, Python, R, SAS, Scala, Julia, MATLAB, along with tools like Tableau and Hadoop

Why Choose B.Sc. Data Science?

- High demand with over 2 lakh job openings and significant growth expected.
- Skills in data analysis, machine learning, and data visualization applicable across diverse sectors.
- Attractive salary prospects and career stability.

B.SC. HONOURS (DATA ANALYTICS)

The B.Sc. Honours (Data Analytics) program is a comprehensive four-year full-time course designed to impart knowledge in recent innovations in Data Analysis, integrating concepts from computer science and statistics. Students gain expertise in statistical techniques, data visualization, and data mining to address real-world challenges effectively.

Program Highlights:

- Duration: Four Academic Years
- Intake: 50 students

Key Features:

- Statistical techniques, data visualization, and data mining
- Development of analytical thinking, data interpretation, and real-world application skills
- High demand in industries such as marketing, finance, healthcare, and more.

Why Choose B.Sc. Data Analytics?

- Exciting opportunities in industries where data-driven decision-making is crucial.
- Acquisition of skills in data manipulation and interpretation, applicable across various sectors.
- Promising career prospects with stable growth and attractive salary packages.

ACHIEVEMENTS OF OUR INNOUDAYVOYAGERS

InnoUdayVoyagers, the designation attributed to the students of our department, embodies their steadfast dedication to innovation and their embrace of new opportunities. "Inno" epitomizes their commitment to pioneering unique and effective solutions, "Uday" denotes their role in instigating fresh beginnings and advancements in this transformative era, while "Voyagers" symbolizes their ongoing journey of exploration and growth within the fields of Data Science and Artificial Intelligence.



Alteryx Datathon

Our InnoUdayVoyagers' victory in the Alteryx Datathon, a national-level competition organized by Alteryx SparkED and supported by AICTE & EduSkills, demonstrates their exceptional analytical and problem-solving abilities on a nationwide scale. They proudly secured 4th place, showcasing their outstanding skills and dedication.

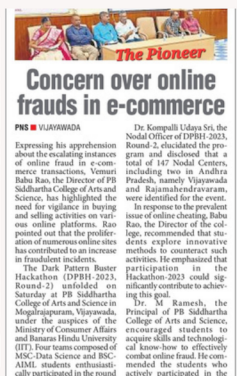
Industrial Visit

Our InnoUdayVoyagers recently explored the world of drone technology at Fopple Technologies Pvt Ltd. Guided by CEO Mr. Gopi Raja, they gained insights into the core principles of Drone Technology and witnessed Fopple's pioneering advancements. From immersive learning to hands-on experiences, their visit showcased Fopple's commitment to innovation.



InnoUdayVoyagers Shine at Dark Patterns Buster Hackathon (DPBH) - 2023

Our InnoUdayVoyagers took center stage at the Dark Patterns Buster Hackathon (DPBH) - 2023, presenting their cutting-edge solutions. With our department's HoD, Dr. Udayasri Kompalli, serving as the Nodal Officer and our college as the nodal center, our students led the charge in tackling dark patterns and promoting ethical design practices. The Dark Patterns Buster Hackathon 2023 was organized by the Department of Consumer Affairs (DoCA) in collaboration with IIT (BHU).



InnoUdayVoyagers' Research Excellence: Paper Presentation at ICICC 2024, New Delhi



At the International Conference on Innovative Computing and Communication (ICICC 2024) in New Delhi on February 16th and 17th, 2024, our department showcased its research excellence through the presentation of our paper titled "PREDICTING SLEEP DISORDERS FOR IMPROVED HEALTHCARE - A COMPREHENSIVE STUDY". This significant contribution, authored by two of our InnoUdayVoyagers, Gandham Mani Saketh and Abdul Faheem, underscores our commitment to advancing healthcare solutions through cutting-edge research in data science.

CAREER OPPORTUNITIES

After Completing B.Sc. Honours

HIGHER EDUCATION

JOBS AND CAREER OPPORTUNITIES

AFTER COMPLETING B.SC. HONOURS IN ARTIFICIAL INTELLIGENCE

Pursue advanced degrees to enhance your skills and knowledge in areas such as:

- Master of Science in Artificial Intelligence and Machine Learning
- Master of Science in Robotics
- Master of Business Administration with focus on AI and Emerging Technologies

Explore exciting career paths in industries such as:

- Artificial Intelligence: AI Engineer, Robotics Engineer, Natural Language Processing Engineer
- Research and Development: Research Scientist, AI Researcher
- Healthcare: Medical Imaging Analyst, Health Informatics Specialist
- Automotive: Autonomous Vehicle Engineer, Self-driving Car Developer

AFTER COMPLETING B.SC. HONOURS IN DATA SCIENCE

Pursue advanced degrees to enhance your skills and knowledge in areas such as:

- Master of Science in Data Analytics
- Master of Science in Artificial Intelligence
- Master of Business Administration with specializations in Business Analytics or IT
- Master of Computer Applications

Explore a wide range of rewarding career paths in industries such as:

- Technology: Data Scientist, Machine Learning Engineer, Data Engineer
- Finance: Financial Analyst, Risk Analyst, Quantitative Analyst
- Healthcare: Healthcare Data Analyst, Bioinformatics Analyst
- Marketing: Marketing Analyst, Market Researcher, Digital Analyst
- Government and Public Sector: Policy Analyst, Research Analyst, Data Governance Specialist

AFTER COMPLETING B.SC. HONOURS IN DATA ANALYTICS

Continue your academic journey with specialized degrees such as:

- Master of Science in Data Analysis
- Master of Business Administration with focus on Business Analytics
- Master of Computer Applications with focus on Data Analysis

Explore diverse career paths in industries such as:

- Business Analytics: Business Analyst, Operations Analyst, Market Research Analyst
- Finance: Financial Analyst, Investment Analyst
- Marketing: Marketing Analyst, Digital Marketing Analyst
- Healthcare: Healthcare Data Analyst, Clinical Data Analyst
- Government and Public Sector: Policy Analyst, Research Analyst

Join InnoUdayVoyagers: Shape the Future with Us!

Experience the vibrant campus atmosphere and explore our cutting-edge facilities. Scan the QR code for detailed Course Curriculum and schedule your visit today. At Data Science and Artificial Intelligence, innovation drives our mission. Join us in shaping the future through groundbreaking research and academic excellence.

- Be an InnoUdayVoyager!

