



VIGNANA BHARATHI
Institute of Technology

(A UGC Autonomous Institution, Approved by AICTE, Accredited by NBA and NAAC-A Grade, Affiliated to JNTUH)



NEWS LETTER

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Data: It Speaks. We Listen.

DEPARTMENT OF CSE
(DATA SCIENCE)

VOLUME - I
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About the Institute

Vignana Bharathi Institute of Technology was established in 2004, sponsored by Swami Vivekananda Educational Trust (SVET) and emerged as a hub for engineering excellence. The institute is accredited by the National Board of Accreditation (NBA) and NAAC with an 'A' grade and has achieved autonomous status by UGC.

Vision

To emerge as a premier institution for technical education in the country through academic excellence and to be recognized as centre for excellence in Research and Development.

Mission

To establish a strong institute by consistently maintaining state of the art infrastructure and a cohesive, world class team by providing need based technical education.

About the Department

The Department of Computer Science and Engineering (Data Science) was established in the year 2020 with the aim of providing inclusive technology education to students from all over India and the world, thereby creating responsible citizens who would contribute to the betterment of their families, society and nation. The Department of CSE (Data Science) initiated its UG program in 2020 with an intake of 60 students. Currently, the department has expanded to enroll 180 students. Comprising two Ph.D qualified faculty members, enhanced by a group of M.Tech qualified professionals, it is renowned for its commitment to excellence. Our department offers students with an outstanding academic environment supported by fully equipped laboratories and a rich repository of software covering a wide spectrum of applications. It has always provided a platform for the students to elevate their skills through various programmes.

OVERVIEW



HoD's Message

“It gives me immense pleasure to lead the Department of Computer Science and Engineering (Data Science). We are happy to release the first volume of the department's newsletter enumerating the various activities and achievements of our faculty and students. Highlighting our department's accomplishments, we are proud to share our latest achievements, including workshops, guest lectures, industrial visits, faculty publications and student achievements. The department empowers students with skill-enhancing programs.” – Dr. Y. Raju

DEPARTMENT

VISION:

To be recognized as a Centre of Excellence in Data Science to meet the ever growing needs of Industry and Society.

MISSION:

- M1:** To empower students with innovative and cognitive skills to gain expertise in the field of Data Science.
- M2:** To inculcate the seeds of knowledge by providing industry conducive environment to enable students excel in the field of Data Science.
- M3:** To provide an appropriate ambience to nurture the young Data Science professionals.

Program Specific Outcomes (PSOs):

By the end of the program, the student will be able to:

- PSO1:** Understand fundamental concepts in statistics, mathematics and computer science to gain an understanding and working knowledge of various tools for analysis.
- PSO2:** Represent the knowledge, predicate logic and then transform the real life information into visually appealing data using suitable tools.
- PSO3:** Get Expertise in different aspects and appropriate models of Data Science and use large data sets to cater to the growing demand for data scientists and engineers in Industry.

WORKSHOPS

VISUAL ANALYTICS WITH TABLEAU

The Department of CSE (Data Science) hosted the inaugural workshop titled "Introduction: Visual Analytics with Tableau" on 2nd September, 2023, which was led by Mr. Jagadishwar Raju Brahma, Project Manager at DXC Technology, Hyderabad. The aim was to delve into Tableau's capabilities in transforming raw data into insightful visualizations through hands-on experience. The workshop provided students with practical skills for data exploration and analysis, resulting in positive feedback and equipping participants with essential tools for data-driven decision making.



TRANSFORMING DATA INTO ACTIONABLE INSIGHTS WITH POWER BI

A one-day workshop titled "Transforming Data into Actionable Insights with Power BI" was organized in collaboration with the Department of IT on 11th November, 2023. This focused session targeting III B.Tech CSE (Data Science) and IT students was led by Mr. Srinivasan Perumal, a Senior Consultant PMO at CAPCO. The workshop resulted in students gaining valuable insights into Power BI and its practical applications.



APPLICATIONS OF IoT

The Department of CSE (Data Science) successfully organized an impactful one-day workshop on "Applications of IoT" on 9th November, 2023, in collaboration with the Department of IT. Expertly led by Mr. Ramanjaneyulu, an experienced Senior Project Engineer from the Embedded Department, the session delved into the practical intricacies of IoT. This workshop not only provided participants with a comprehensive understanding of IoT technologies and their diverse applications but also fostered an interactive learning environment. The enthusiastic involvement and active participation of the students enriched their learning experience, empowering them with profound insights into IoT's transformative potential in the digital landscape.

DATA VEDHI.CLUB

Data Vedhi.Club in association with the Department of CSE (Data Science), is an official Data Science forum of VBIT which was founded on 31st October, 2022. It is a student-driven platform that passionately explores the world of Data Science. It offers a wide range of activities and opportunities, including hands-on workshops, competitions and collaborative data projects. Data Vedhi creates a path to success in Data Science for aspiring students.



GUEST LECTURE



Importance of Technologies

A guest lecture on "Importance of Technologies" was held on 17th October, 2023. Mr. B. Mohammed Adil, the founder and CEO of Aptivex Solution Pvt. Ltd., delivered a lecture that fostered a vibrant learning environment for the students. As they actively engaged with insights on best practices within the technological landscape, the lecture proved highly beneficial, with students enthusiastically embracing the valuable insights shared.

EXPERT LECTURE & MOTIVATIONAL TALK

Mr. C. Ramakrishna, Assistant Professor, has delivered an insightful motivational talk and an expert lecture on "Role of Artificial Intelligence and Challenges in Information Security" during the occasion of CSIR sponsored one-day National Seminar/Symposium on Recent Trends and Challenges in Information Security. The meticulously organized event by the Department of Data Science at Holy Mary Institute of Technology and Science, Hyderabad, provided valuable insights to the participants on the dynamic landscape of information security in today's technology-driven world.

CONFERENCE

Mrs. S. Adilakshmi, Assistant Professor, participated in the "Springer 5th International Conference on Computer & Communication Technologies" organized by the Department of ECE, KITS, Warangal, Telangana, as co-author for the paper titled 'Improving Breast Cancer Prognosis with Dt_based Image Classification.'

Center of Excellence (CoE)

The Department of CSE (Data Science) has signed an MoU (Memorandum of Understanding) for the establishment of a Center of Excellence in Power BI from ICT Academy.

INDUSTRIAL VISITS

INDUSTRIAL VISIT TO C – DAC, HYD



An industrial visit to C-DAC, Hyderabad on 30th September, 2023, aimed to familiarize III year students with advanced computing technologies and emphasize the importance of project work and technology's societal impact. The students were impressed by C-DAC's advanced infrastructure and had insightful interactions with researchers and engineers, gaining deeper understanding of areas like AI&ML and Cybersecurity. The insightful visit motivated students to explore deeper into advanced computing.

INDUSTRIAL VISIT TO AIC AT IIIT HYD

An industrial visit to the Atal Incubation Centre (AIC) at IIIT (International Institute of Information Technology), Hyderabad, took place on 20th October, 2023 for II year students. The aim of this visit was to expose students to the entrepreneurial ecosystem and equip them with the skills and knowledge required to navigate the journey from idea conception to launch and growth. During the industrial visit, students gained insights into the world of entrepreneurship and learned how to transform their aspirations into impactful ventures through their active involvement.



HACKATHONS

SMART INDIA HACKATHON - 2023

C. Akshay, Ch. Nanditha, E. Misha, and M. Abhishek, a team of students from II year CSE (Data Science) under the guidance of Mr. Ch. Sathyanarayana, Assistant Professor, have advanced to the second round of the Smart India Hackathon 2023 - Software Edition. Their proposed solution, emphasizing the theme of Smart automation, focuses on smart and real-time management of street parking through an innovative mobile application.



MARK XXIV Hackathon, Woxsen University

During the 24-hour MARK XXIV Hackathon organized by Woxsen University on 3rd November, 2023, II year students A. Sai Meghamsh, M. Rakesh, M. Rohini and K. Adharsh from the Department of CSE (Data Science) have participated and secured the second runner-up position, earning a 10k cash prize for their project on space sustainability under the theme of open innovation.

FACULTY PUBLICATIONS

Dr. Y. Raju, HoD of CSE (Data Science), has published a Research paper titled "Combination of Adaptive Neuro Fuzzy Inference System and Machine Learning Algorithm for Recognition of Human Facial Expressions" in the International Journal of Advanced Computer Science and Applications (IJACSA) in August 2023. The research introduces an innovative approach that integrates Adaptive Neuro Fuzzy Inference System (ANFIS) with machine learning algorithms to accurately identify and categorize human facial expressions.

Dr. P. Punitha, Associate professor, has published a Research paper titled "Deciphering Market Dynamics: A Data Science and Machine Learning Approach Using Chaos Theory for Trend Prediction," which has been published in the prestigious International Journal of Intelligent Systems and Applications in Engineering. This innovative study combines Data Science, Machine Learning, and chaos theory to understand complex market dynamics and accurately forecast trends.

FACULTY ACHIEVEMENTS

FACULTY DEVELOPMENT PROGRAM

POWER BI

Dr. Y. Raju, Dr. P. Punitha, Mrs. M. Lavanya and Mrs. S. Adilakshmi participated in a one-week Faculty Development Program titled "Microsoft Power BI Data Analyst Associate" conducted by ICT Academy.

DATA VISUALIZATION

Dr. P. Punitha, Mrs. M. Lavanya, Mrs. D. Gayathri Devi, Mr. B. Venkanna, Ms. K. Kavya, Mr. V. Raju, Mr. Ch. Sathyanarayana and Mrs. Spandana attended a one week Professional Development Programme on "Data Visualization" organized by the Department of CSE (CyS, DS), and Artificial Intelligence & Data Science at VNR Vignana Jyothi Institute of Engineering and Technology.

NEP 2020 ORIENTATION PROGRAM

Dr. Y. Raju, Dr. P. Punitha, Mrs. S. Adilakshmi, and Mrs. M. Lavanya completed the NEP 2020 Orientation & Sensitization Programme - 4 as part of the Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC), organized by UGC Malaviya Mission Teacher Training Centre, Jawaharlal Nehru Technological University Hyderabad.

EMERGING TOOLS

Mr. Ch. Sathyanarayana has participated in one week International Level Faculty Development Programme on "Emerging Tools & Techniques in Machine Learning and Data Science" organized by the Department of CSE, Madanapalle Institute of Technology & Science, Madanapalle in association with Computer Society of India.

AWARDS/ACHIEVEMENTS



Dr. P. Punitha, Associate Professor of CSE (Data Science) successfully completed her Ph.D from JNTU Hyderabad in 2023.



Dr. Y. Raju, HoD of CSE (Data Science) received the Educator Excellence Award - 2023 from Eduskills in recognition of his contribution as a Celonis Educator on 17th November, 2023.

CO – CURRICULAR ACTIVITIES

III year CSE (Data Science) students G. Sai Dheeraj, N. Ananya, and M. Chandraleka have secured the 1st prize in 'Build-A-Thon,' a 24-hour hackathon organized by Google Crowd Source on 25th September, 2023 at VBIT.



P. Amruthvarsh from III year CSE (Data Science) has been selected as a Google Crowd Source influencer for his amazing contribution to the Google Crowd Source Application.



III year CSE (Data Science) students Ch. Varshini, P. Amruthvarsh and P. Vivek have secured the 1st prize in 'Ideathon' organized by Google Crowd Source on 25th August, 2023 at VBIT.



BRANCH ASSOCIATION COMMITTEE

The Branch Association Committee, under the mentorship of Faculty Coordinator Ms. K. Kavya, takes responsibility for overseeing all departmental activities and events. Additionally, there is a specialized Research Division within Branch Association Committee, which encourages and facilitates student participation in research endeavours within the department.

EXTRA CURRICULAR ACTIVITIES

S P O R T S

M. Sudeepth from III year CSE (Data Science), a skilled volleyball player, has participated in inter-college tournaments held at Vignan University, SNIST, and VNR VJIIET. He excelled in the JNTUH South Zone Inter University Volleyball Championship held in Mandiya, Karnataka, in December 2023.



D A N C E

Pradeep and Nagendra Prasad, students of III year CSE (Data Science) representing Freakz United, have secured 1st rank in the Group Dance of Hyderabad Nationals of ANTARAGNI'23, IIT Kanpur, organized at CBIT, Hyderabad.



STUDENT CERTIFICATIONS

OOPs through Java

II year CSE (Data Science) students have successfully completed the course 'Learn programming with Java - An Interactive Way' in Infosys spring board under the guidance of Mrs. R. Sasikala.

DSA using Python

Under the guidance of Mrs. Hari Priya, II year CSE (Data Science) students have successfully completed the course on 'Data Structures and Algorithms (DSA) using Python' in the Infosys spring board.

Networking Essentials

III year CSE (Data Science) students have successfully achieved student level credential for completing 'Networking Essentials' course in Cisco Networking Academy administered by Mrs. D. Gayathri Devi.

Fundamemtnals of Data Science

II year CSE (Data Science) students have successfully completed the course in 'Data Structures and Algorithms (DSA) using Python' in the Infosys spring board under the guidance of Mrs. Hari Priya.

Cyber Security Essentials

III year CSE (Data Science) students have successfully achieved student level credential for completing the Course 'Cyber Security Essentials' 'provided by Cisco administered by Mrs. K. Kavya.

Predictive Analytics

IV year CSE (Data Science) students have successfully completed the course of 'Deep Learning for Developers and complete ML course with python' in Infosys spring board under the guidance of Mrs. S. Adilakshmi.

Block Chain Technology

IV year CSE (Data Science) students completed the 'Introduction to Blockchain Technologies and Bitcoin' and 'Cryptocurrency Technologies' course in Infosys springboard under the guidance of Mr. C. Ramakrishna.

Web and Social media analytics

IV year CSE (Data Science) students have successfully completed the course 'Introduction to social media marketing and Excel Skills for business essentials' in Infosys spring board administered by Mr. C. Ramakrishna.

Exploratory Data Analysis

IV year CSE (Data Science) students have successfully completed and gained insights in the course on 'Exploratory Data Analysis (EDA)' in infosys spring board under the guidance of Mr. B. Venkanna.

Internet of Things

IV year CSE (Data Science) students have successfully completed the course 'Internet of things 101' & 'Internet of things 201' in Infosys spring board under the guidance of Mr. Vijay Kumar.

INTERNSHIPS



Our student Simhadri Sai Sravanth has secured internship at Digitalmotives Tech an AR/VR company for the role of Artificial Intelligence Intern in collaboration with Sony technologies with a stipend of 20,000. He pursued the internship for 6 months starting from Feb, 2023 to Sep, 2023.



Our student Simhadri Sai Sravanth has secured his 2nd internship at Vermac Labs an Edtech startup company for the role of Artificial Intelligence Intern. This internship was with a stipend of 15,000.



Our student Menthana Venkat Sai has done freelancing projects of worth 25,000 to a US based startup called ScoutFlix for a period of one month.



IV year CSE (Data Science) students Shailendar Reddy, D. Asritha, Akash Kistapuram, Challa Bhavana, Dhandi Saipriy, K. Akhila are now successfully working as interns at coapps.ai.

PLACEMENTS



Collabera Digital

We congratulate Palukuri Rithika, Shashank Tambe and K. Akhila our IV year CSE (Data Science) students on securing a placement at Collabera Digital.

Accenture

We congratulate Kotturi Koushil, our IV year CSE (Data Science) student on securing a placement at Accenture.



Sky Technologies

We congratulate Khatroth Revathi, our IV year CSE (Data Science) student on securing a placement at Sky Technologies.

Pie Infocomm

We congratulate Kotturi Koushil, our IV year CSE (Data Science) student on securing a placement at PIE INFOCOMM.



VALUE ADDED PROGRAMS

SERVICENOW

The demand for skilled ServiceNow developers is on the rise. Taking this into consideration, the students of IV year CSE (Data Science) are guided to complete the course on service now and have successfully received the certificates for their completion.

ALTERYX

As a part of the Value Added Program, Alteryx is provided for IV year CSE (Data Science) students. Upon successful completion of the course on this leading AI platform, students received a certificate.

SALESFORCE

III and IV year students of CSE (Data Science) have participated in a Virtual Internship Program where they completed courses in Salesforce Developer & Administrator. They received certificates upon completion of the courses.

JUNIPER

III year CSE (Data Science) students successfully completed the Networking Cloud Virtual Internship supported by Juniper Networks and Cloud and Automation Academy, as a part of the Value Added Program.

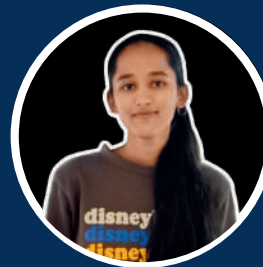
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