

An Annual Magazine of
Department of Computer Science & Engineering

Volume I

TechVista

SEPTEMBER 2023



**St. Ann's College of
Engineering & Technology**
(Autonomous)

Chirala – 523 187, Bapatla District

Approved by AICTE – New Delhi, Permanantly Affiliated to JNTUK - Kakinada

Accredited by NBA and Institution of Engineers(INDIA)

Institution Accredited by NAAC with A Grade

Recognised by UGC under Section 2(f) & 12(B) of UGC Act, 1956

Awarded 'A' Grade by Andhra Pradesh State Government.

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Message From The Head of the Department

The inaugural edition of **TechVista** reflects the **creativity, achievements, and aspirations** of the Department of **Computer Science & Engineering**. It stands as a testament to our commitment to **academic excellence, innovation, and continuous learning**.

In an era of rapid technological transformation, our mission extends beyond imparting knowledge. We strive to nurture **curiosity, critical thinking, professional competence, and lifelong learning**, empowering students to adapt, innovate, and contribute meaningfully to society.

The accomplishments of our students in **academics, certifications, technical competitions, research, and placements** reflect both their dedication and the supportive ecosystem fostered by our faculty. **TechVista** serves as a platform to celebrate these achievements while showcasing the spirit of **innovation, collaboration, and growth** that defines our department.

I congratulate the **Student Editorial Team** for their commendable efforts in bringing this inaugural edition to life and thank the **Management, Principal, faculty members, staff, and students** for their continued support. May **TechVista** inspire excellence and remain a source of pride for our department in the years to come.

Dr. P. Harini
Professor & Head of the Department
Department of Computer Science & Engineering



Message From the Principal

TechVista is a remarkable initiative of the **Department of Computer Science & Engineering**, reflecting the **creativity, accomplishments, and aspirations** of our students.

I commend the **vision, dedication, and leadership** of the **Head of the Department** in conceptualizing this inaugural publication and creating a meaningful platform for students to express their **talent, innovation, and intellectual curiosity**.

I extend my congratulations to the **Student Editorial Team**, faculty members, and contributors whose collective efforts have brought this edition to fruition. May **TechVista** continue to foster a culture of **innovation, lifelong learning, and excellence**, while standing as a proud testament to the department's vibrant academic spirit and pursuit of distinction.

Dr. M. Venu Gopala Rao,
Principal,
St. Ann's College of Engineering & Technology



Best Wishes from

Honourable Secretary

I extend my **warm greetings** and **heartfelt congratulations** to the **Department of Computer Science & Engineering** on the release of the inaugural edition of **TechVista**.



The department has consistently contributed to the **academic excellence**, **growth**, and **reputation** of the institution, and this publication stands as a reflection of its vibrant culture of **learning**, **innovation**, and **achievement**.

I convey my best wishes for the continued success of **TechVista** and all future endeavours of the department.

Sri. V. Ramakrishna Rao
Secretary
St. Ann's College of Engineering & Technology

Respected Correspondent

My sincere **congratulations** to the **Department of Computer Science & Engineering** on the launch of the inaugural edition of **TechVista**.

The department has played a significant role in the **progress** and **success** of our institution through its commitment to **quality education**, **student development**, and **technological advancement**.



May **TechVista** continue to inspire **creativity**, **excellence**, and **innovation** among generations of learners.

Sri. S. Lakshmana Rao
Correspondent
St. Ann's College of Engineering & Technology

VISION

To be a **centre of excellence** in Computer Science & Engineering, and to produce students with **ability to address emerging challenges** in global perspective with social concern.

MISSION

- **To impart quality education** that builds strong computational knowledge and prepares students for global technological demands.
- **To develop analytical, design, and research capabilities** enabling students to create innovative and sustainable engineering solutions.
- **To promote experiential learning** through projects, internships, and hands-on exposure to modern tools and technologies.
- **To nurture responsible engineers** with ethical values, societal awareness, and a commitment to inclusive technological growth.
- **To encourage participation** in research, consultancy, and community-oriented initiatives that enhance societal impact.
- **To encourage continuous professional growth** by fostering adaptability, curiosity, and lifelong learning habits.

Program Educational Objectives (PEOs)

- **PEO1.** *Apply* fundamental knowledge and engineering principles to **design, develop, test, and maintain** reliable and efficient software systems that meet user and industry requirements.
- **PEO2:** *Build and implement* software solutions to address needs in **research, education, training, and e-governance**, contributing to technological and societal advancement.
- **PEO3:** *Function effectively* as professionals by **working collaboratively in teams**, using modern tools, standard development environments, and sound project management practices.
- **PEO4.** *Engage in lifelong learning*, uphold ethical practices, enhance professional skills, and *adapt proactively* to evolving AI technologies and societal needs.

Program Specific Outcomes (PSOs)

- **PSO1: Design, implement, and evaluate** software solutions by applying core principles of algorithms, data structures, operating systems, and database technologies to meet specified functional and performance requirements.
- **PSO2: Analyze and develop** intelligent computing systems using computational techniques in artificial intelligence, machine learning, data analytics, and cloud technologies to solve real-world problems.
- **PSO3: Architect, deploy, and manage secure and scalable** computing environments by selecting appropriate tools, platforms, and frameworks for modern software development, networked systems, and enterprise applications.

Program Outcomes (POs)

- **PO1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

CSE – A Centre of Excellence

Shaping Innovators. Inspiring Excellence. Transforming Futures.

Established	UG Intake	PG Intake	NBA	Research Centre
2001	180	24	3 Times Accredited	JNTUK Approved

Established in **2001**, the **Department of Computer Science & Engineering** at **St. Ann's College of Engineering & Technology (Autonomous), Chirala**, has grown into a vibrant academic community dedicated to **excellence in education, innovation, research, and professional development**. Guided by the philosophy of “**Education with a Future**,” the department strives to nurture technically proficient, innovative, and socially responsible engineers capable of contributing meaningfully to a technology-driven world.

Advancing Knowledge Through Innovation

The department fosters a dynamic learning ecosystem supported by state-of-the-art facilities, including the **JNTUK Approved Research Centre (CSE)**, **IBM Center of Excellence**, **Jozuna Incubation Centre**, **Kesav Soft Incubation Centre**, and **Quantum Innovation Centre**. These centres serve as catalysts for **research, entrepreneurship, industry collaboration, and experiential learning**, empowering students and faculty to explore emerging technologies and innovative solutions.

Growth with Purpose

Over the years, the department has witnessed remarkable academic growth, with undergraduate intake expanding from **60 to 180 seats** and the postgraduate intake is **24 seats**. Students consistently distinguish themselves through excellence in **academics, certifications, research, placements, and higher education**, reflecting the department's commitment to nurturing competence and confidence.

Beyond the Classroom

At the heart of the department lies a vibrant student culture that encourages leadership, creativity, and collaboration. Through its student association **CRUISER'S ELITE**, the bi-annual newsletter **CONFIGURATIONS**, and the annual technical magazine **TECHVISTA**, students are provided opportunities to express ideas, showcase achievements, and cultivate professional and interpersonal skills beyond academics.

A Legacy of Quality and Excellence

The department's pursuit of continuous improvement is reflected in its **three-time NBA accreditation**, accreditation by the **Institution of Engineers (India)**, **NAAC 'A' Grade accreditation**, and **Permanent Affiliation to JNTUK, Kakinada**. With a strong foundation, a culture of innovation, and a vision for the future, the Department of Computer Science & Engineering continues to inspire generations of learners and shape tomorrow's technology leaders.



Our Esteemed Faculty

The Department of Computer Science and Engineering is supported by a team of highly qualified, experienced, and dedicated **faculty members** who play a pivotal role in fostering **academic excellence, research advancement, innovation, and student success**. With expertise spanning diverse domains of **Computer Science and Engineering**, the faculty actively contribute to **teaching, research, consultancy, curriculum development, and professional service**.

Faculty Development Initiatives

The Department of Computer Science & Engineering firmly believes that **continuous professional development** is essential for maintaining **academic excellence and technological relevance**. During the academic year, faculty members **actively participated** in numerous **Faculty Development Programmes** conducted by reputed institutions while the department also **organized specialized FDPs** on contemporary technologies for academicians and professionals.

These initiatives have strengthened faculty competencies in emerging domains such as **Artificial Intelligence, Machine Learning, Cloud Computing, Blockchain, Virtual Reality, Data Analytics, Full Stack Development, Research Methodology, and Outcome-Based Education**.



A. FDPs Attended (External) by Faculty (A.Y: 2022 –2023)

Faculty members participated in **65 external Faculty Development Programmes** during AY **2022–2023**, gaining exposure to contemporary technologies as well as academic and research practices.

The programmes covered diverse areas including **Machine Learning, Artificial Intelligence, Deep Learning, Data Science, Cloud Computing, AWS, Java Full Stack Development, Blockchain, Python, Data Analytics, Research Methodology, Emerging Technologies, and Outcome-Based Education & NBA Accreditation.**

Highlights of External FDP Participation

Area / Programme	Institution / Organizer
Cloud Computing – NPTEL-AICTE FDP	IIT Madras
Machine Learning for Data Science using Python	NIT Warangal & ANITS
Machine Learning – Part I	Acharya Nagarjuna University
Amazon Web Services (AWS)	Sridevi Women's Engineering College, Brainovision & AICTE
Java Full Stack Master Class	APSSDC & Pantech eLearning
AI and Deep Learning	APSSDC
Outcome-Based Education & NBA Accreditation	Shri Chatrapati Shivajiraje College of Engineering
Research Methodology – Persuasive Project Proposals	Santhiram Engineering College
Blockchain Technologies	Lakireddy Bali Reddy College of Engineering
Python 3	Prakasam Engineering College & Spoken Tutorial Project, IIT Bombay
Emerging Technologies	VVIT, Guntur

These programmes enabled **faculty** members to **continually enhance** their **technical expertise, research skills, pedagogical practices**, and awareness of **evolving industry trends**.

B. FDPs Organized by the Department

In addition to participating in professional development programmes, the Department of Computer Science & Engineering actively organizes FDPs on emerging technologies to promote knowledge sharing, industry interaction, and academic enrichment among faculty members from various institutions.



FDPs Organized During the Academic Year

Programme	Duration	Resource Person	Participants
MERN Stack Development	18-07-2022 to 23-07-2022	Mr. M. Venkat Gopi Chand, Senior Tech Lead, Tech Mahindra, Hyderabad	32
Amazon Web Services (AWS)	20-02-2023 to 25-02-2023	Mr. Gopi Raju, Technical Skill Trainer, APSSDC, Vijayawada	34

Highlights

- The CSE Department has organised **2 FDPs**
- In total **66 Faculty Participants Benefited**
- Strong **Industry Interaction** through experts from Tech Mahindra and APSSDC
- Focus on **Cloud Computing, Web Technologies, and Industry-Oriented Skills**
- Enhanced collaboration between academia and industry

The Department of Computer Science & Engineering will continue to encourage faculty participation in national and international FDPs, certifications, research programmes, and industry training initiatives. Through sustained professional development and collaborative learning, the department aims to nurture academic excellence, innovation, and lifelong learning for the benefit of students, faculty, and society.

Professional Society Memberships

The faculty members of the Department of Computer Science & Engineering actively engage with **reputed professional societies** and **technical bodies** at both **national and international levels**. Such memberships reflect their commitment to **continuous professional development, lifelong learning**, and active participation in the advancement of **engineering education, research, and technological innovation**.

Through their association with prestigious organizations such as **CSI, ISTE, IEI, IAENG, IFERP, IACSIT**, and other professional bodies, faculty members gain access to **emerging trends, research opportunities, technical resources, and collaborative networks**. These memberships facilitate **knowledge exchange, professional excellence**, and meaningful contributions to the **academic and research community**.

The department takes pride in the significant number of faculty members holding **Life Memberships** in renowned professional societies, demonstrating their dedication to **high standards of scholarship, professional ethics, and continuous growth** in their respective domains of expertise.



List of Faculties with Lifetime Memberships

S.N.	Name of the Faculty	Name of the Professional Society /Body at National and International Level	Membership Type
1	Dr. P. Harini	- Computer Society of India(CSI) - Indian Society for Technical Education(ISTE) - Institution of Engineers India(IEI)	LIFE MEMBERSHIP
2	Dr. Y. Chitti Babu	- Computer Society of India(CSI) - Indian Society for Technical Education(ISTE) - Institution of Engineers India(IEI)	LIFE MEMBERSHIP
3	Dr. A. Tirupathaiah	- Computer Society of India(CSI) - Indian Society for Technical Education(ISTE) - Institution of Engineers India(IEI)	LIFE MEMBERSHIP
4	Dr. M. Ratna Raju	- International Computer Science and Engineering Society (ICSCS) - International Association of Engineers(IAENG) - Institute for Engineering Research and Publication(IFERP)	LIFE MEMBERSHIP
5	Dr. N. Nagesh Babu	- International Association of Engineers(IAENG) - International Association of Computer Science and Information Technology(IACSIT) - Institution of Engineers India(IEI)	LIFE MEMBERSHIP
6	Dr. P.V.S. Sarma	- Computer Society of India(CSI) - Indian Society for Technical Education(ISTE) - Institution of Engineers India(IEI)	LIFE MEMBERSHIP
7	Dr. G. Prasuna	Indian Society for Technical Education(ISTE)	LIFE MEMBERSHIP
8	Mr. N. Lakshmi Narayana	- Computer Society of India(CSI) - Indian Society for Technical Education(ISTE) - Institution of Engineers India(IEI)	LIFE MEMBERSHIP
9	Mr. S. Amarnath Babu	- Computer Society of India(CSI) - Indian Society for Technical Education(ISTE)	LIFE MEMBERSHIP
10	Mrs. D. Madhuri	- Computer Society of India(CSI) - Institution of Engineers India(IEI)	LIFE MEMBERSHIP
11	Dr K. Subba Rao	- Computer Society of India(CSI) - Indian Society for Technical Education(ISTE) - Institution of Engineers India(IEI)	LIFE MEMBERSHIP
12	Mr. T. Sesha Sai	Computer Society of India(CSI)	LIFE MEMBERSHIP

Faculty as Resource Persons

The faculty members of the Department of Computer Science & Engineering are frequently invited as **Resource Persons** and **Invited Speakers** by reputed institutions and professional bodies in recognition of their **academic expertise** and **professional excellence**.

S.NO	Name of the Faculty as Resource Person	Name of the STTP/FDP	Date	Location	Organized by
1	Dr. P. Harini	Data Science and Big Data Analytics using Python	14-09-2022	Ongole	Dept. of CSE, RISE Prakasam Group of Institutions
2	Dr. P. Harini	Block chain Technologies and Decentralized Applications	06-03-2023	Eluru	Dept. of CSE, <i>Eluru College of Engineering & Technology</i> .
3	Dr. Y. Chitti Babu	Data Science with Python Programming	14-07-2022	Markapur	Dept. of CSE, Samuel George Institute of Engineering & Technology.
4	Dr. Y. Chitti Babu	Cryptography and Secure Communication	05-01-2023	Kandukuru	Dept. of CSE, Prakasam Engineering College.
5	Dr. A. Tirupathaiah	Web Technologies	06-10-2022	Ongole	Dept. of CSE, <i>PACE Institute of Technology and Sciences</i>
6	Dr. A. Tirupathaiah	JAVA PROGRAMMING	31-01-2023	Markapur	Dept. of CSE, Samuel George Institute of Engineering & Technology.
7	Dr. G. Prasuna	The Agile Mindset: 'Building Faster, Smarter, Better Software'	28-08-2022	Ongole	Dept. of CSE, <i>PACE Institute of Technology and Sciences</i>
8	Dr. G. Prasuna	Mapping the world: Applications of Graphs in Technology	10-02-2023	Eluru	Eluru College of Engineering and Technology
9	Dr. M. Ratna Raju	Programming for Problem Solving Using C	04 -11-2022	Macherla	Dept. of CSE, Newton's Institute of Engineering
10	Dr. M. Ratna Raju	Data Structures	13-03-2023	Guntur	Dept. of CSE, St. Mary's Group of Institutions Guntur for Women.
11	Dr K. Subba Rao	Data Structures in Python	10-08-2022	Ongole	Dept. of CSE, RISE Krishna Sai Group of Institutions, Ongole
12	Dr K. Subba Rao	Basics of Object-Oriented Programming	23-02-2023	Chimakurthy	Dept. of CSE, BVSR Engineering College, Chimakurthy,

Research & Professional Excellence

The Department of Computer Science & Engineering continuously encourages faculty members to pursue **professional certifications**, **research excellence**, and **innovation-driven activities**. Through participation in prestigious certification programs and contributions to intellectual property creation, the faculty demonstrate their commitment to **lifelong learning**, **advanced research**, and **technological innovation**.

NPTEL Certifications

The faculty members have successfully completed NPTEL courses offered by premier institutions, strengthening their expertise in emerging technologies and contemporary computing domains.

Faculty Member	Course	Offered By	Achievement
Mrs. D. Madhuri	Cloud Computing (Jul–Oct 2022)	NPTEL, IIT Madras	79% – Elite + Silver

Patents & Intellectual Property

The department takes pride in the research and innovation contributions of its faculty members through patent publications, reflecting their efforts toward developing impactful technological solutions.

Faculty Member	Title of the Invention	Patent Details
Dr. P. Harini	Next-generation AI Chatbot with Advanced Language Understanding and Generation Capabilities	Application No: 202341050566 ; Filed: 26-07-2023 ; Published: 01-09-2023
Dr. G. Prasuna	AI & ML Based System for Tagging Connected Devices in a Wireless Network and Method Thereof	Application No: 202241043129 ; Filed: 27-07-2022 ; Published: 19-08-2022

Publications & Scholarly Contributions

The **Department of Computer Science & Engineering** demonstrated a **strong research orientation** with faculty members contributing publications across emerging areas such as **Artificial Intelligence, Machine Learning, Deep Learning, Cloud Computing, Blockchain, Cyber Security, Data Science, Natural Language Processing, Computer Vision and Software Engineering.**

During the year, the **faculty collectively contributed 98 publications**, comprising **49 journal publications** and **49 international conference publications**. The publication portfolio includes papers appearing in journals identified in the source as **UGC CARE, Scopus indexed**, reflecting the **department's engagement with diverse national and international research platforms.**

Major Journals / Publication Platforms

- **International Journal of Advanced Research in Information and Communication Engineering (IJARCSA) – UGC CARE**
- **International Research Journal of Infinite Innovations in Engineering and Technology (IJIET) – UGC CARE**
- **International Journal of Advanced Research and Review (IJARR) – UGC CARE**
- **Journal of Nanomaterials – SCI Indexed**
- **Design Engineering – Scopus Indexed**
- **Neuro Quantology – Scopus Indexed**
- **Journal of Harbin Institute of Technology – Scopus Indexed**
- **Computer Integrated Manufacturing Systems – Scopus Indexed**
- **Microsystems Technologies (Springer) – SCI Indexed**
- **International Journal of Creative Research Thoughts (IJCRT)**
- **Journal of Information and Computational Science**
- **GIS Science Journal**
- **International Journal for Modern Trends in Science and Technology (IJMTST)**

Details of Faculty Publications (2022-23):

S.NO	FACULTY NAME	DESIGNATION	JOURNALS		CONFERENCES	
			NATIONAL	INTER NATIONAL	NATIONAL	INTER NATIONAL
1	Dr.P.Harini	Professor	-	06	-	05
2	Dr. Y. Chitti Babu	Assoc. Professor	-	02	-	02
3	Dr. D N V Syama Kumar	Assoc. Professor	-	04	-	02
4	Dr. A. Tirupathaiah	Assoc. Professor	-	03	-	05
5	Dr. K. Subbarao	Assoc. Professor	-	-	-	01
6	Dr.M.Ratna Raju	Assoc. Professor	-	06	-	03
7	Dr.Y.Sowjanya Kumari	Assoc. Professor	-	01	-	01
8	Dr. Grandhi Prasuna	Assoc. Professor	-	07	-	04
9	Dr. Nagesh Babu Dasari	Assoc. Professor	-	08	-	05
10	Mr. P V S Sarma	Assoc. Professor	-	02	-	04
11	Mr. N Lakshmi Narayana	Asst. Professor	-	04	-	04
12	Mr. V.V.Praveen Kumar	Asst. Professor	-	01	-	02
13	Mr.T.Sesha Sai	Asst. Professor	-	02	-	04
14	Mrs. D Madhuri	Asst. Professor	-	01	-	07
15	Mrs. N. Sulakshana	Asst. Professor	-	02	-	-
Sub Total			-	49	-	49
Grand Total			98			

ICRTCSE-2023 — Department-Level International Conference

**INTERNATIONAL
CONFERENCE
ON
RECENT TRENDS IN
COMPUTER SCIENCE
AND ENGINEERING-
ICRTCSE -2023::**
Blended Mode
19.02.2023(VIRTUAL)
&
20.02.2023(OFFLINE)

Organized by
**DEPARTMENT OF COMPUTER
SCIENCE & ENGINEERING**



St. Ann's
**COLLEGE OF ENGINEERING &
TECHNOLOGY**
AN AUTONOMOUS INSTITUTION,
ACCREDITED BY NBA, CHIRALA.
<http://www.sacet.ac.in/>

The Department of Computer Science & Engineering, St. Ann's College of Engineering & Technology, Chirala, organized the International Conference on Recent Trends in Computer Science and Engineering (ICRTCSE-2023) in Blended Mode on 19-02-2023 (Virtual) and 20-02-2023 (Offline).

The conference provided a platform for faculty, researchers, academicians, students and industry professionals to share research and exchange ideas in emerging areas such as Artificial Intelligence, Machine Learning, Data Science, Cyber Security, IoT, Cloud Computing, Image and Video Processing, and Intelligent Systems, promoting research, innovation and academic collaboration.

A Few Highlights

The faculty members of the Department have consistently demonstrated a **strong commitment to research**. The following are a few selected publications that highlight the breadth and depth of their scholarly contributions.

S.No	Author Name	Title	Journal/Conference
1	Dr.P.Harini	AWS-POWERED NATURAL LANGUAGE PROCESSING	International Journal of Advanced Research in Information and Communication Engineering (IJARCSA) ISSN: 2321-8940 Vol.2, Issue No 2, 2022, pg:94-100[UGCCARE]
2	Dr.P.Harini	Systematic Predictive Analysis of Potato Disease	International Conference on Communication, Security and Artificial Intelligence(ICCSAI) , 23-24 Dec 2022
3	Dr. Y. Chitti Babu	MEDICAL IMAGE SEGMENTATION	International Journal of Advanced Research in Information and Communication Engineering (IJARCSA) ISSN: 2321-8940, Vol.2, Issue No 2, 2022, pg:65-69 [UGC CARE]
4	Dr. A. Tirupathaiah	MEDICAL CHATBOT FOR SYMPTOM ASSESSMENT	International Journal of Advanced Research in Information and Communication Engineering (IJARCSA) ISSN: 2321-8940, Vol.2, Issue No 2, 2022, pg:59-64 [UGC CARE]
5	Dr.M.Ratna Raju	A Novel Hybrid Data Mining Technique Using Hybrid Optimized Deep Learning Methods for Chronic Kidney Diseases	Design Engineering ISSN: 0011-9342 Year 2022 Issue: 1 Pages: 396 - 417 [Scopus Indexed]
6	Dr. Grandhi Prasuna	CYBER SECURITY THREAT DETECTION	International Research Journal of Infinite Innovations in Engineering and Technology (IJIIET) ISSN: 2349-2287 Vol.2, Issue No 2, 2022, pg:39-45[UGC CARE]
7	Dr. Nagesh Babu Dasari	Diagnosis of Pulmonary Nodules using Multi-Size Multi-Branch 3D-CNN Architecture	NeuroQuantology, July2022, Volume20, Issue8, Page 7924-7933, doi:10.14704/nq.2022.20.8.NQ44818. (Scopus)
8	Mr. P V S SARMA	IMAGE RECOGNITION FOR MEDICAL DIAGNOSIS	International Journal of Advanced Research in Information and Communication Engineering (IJARCSA) ISSN: 2321-8940 Vol.2, Issue No 2, 2022, pg: 36-39 [UGC CARE]
9	Mr. N LAKSHMI NARAYANA	AWS- CLOUD BASED DATA LAKE	International Journal of Advanced Research in Information and Communication Engineering (IJARCSA) ISSN: 2321-8940 Vol.2, Issue No 2, 2022,pg:77-82[UGC CARE]

Excellence in Academic Authorship

The Department of **Computer Science & Engineering** is proud of its faculty's **academic authorship**. **Dr. P. Harini** (Professor & Head) and **Dr. M. Ratna Raju Mukiri** (Professor & Post-Doctoral Researcher) have **authored books** across diverse areas of **computing** and **cybersecurity**, reflecting their deep **expertise** and commitment to **knowledge dissemination**.

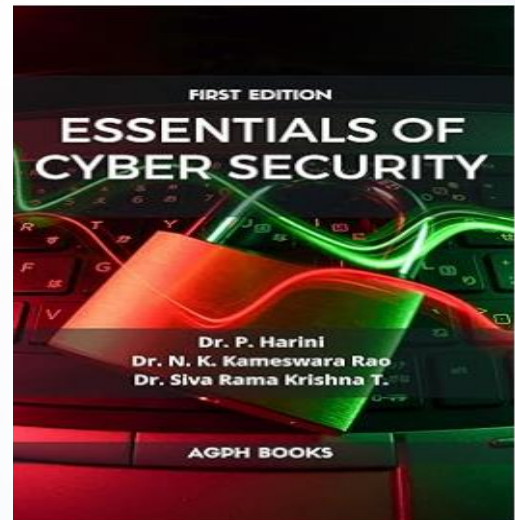
Dr. P. Harini, Professor & Head of the Department, CSE

A distinguished academic and author, **Dr. P. Harini** contributes to the **advancement of cybersecurity** education through publication of “**Essentials of Cyber Security**” that empower students and professionals with industry-relevant knowledge.

Essentials of Cyber Security (2022)

Publication Details

- **Title:** *Essentials of Cyber Security*
- **Author:** Dr. P. Harini
- **Year of Publication:** 2022
- **Publisher:** AGPH Books
- **ISBN:** 978-9394339167
- **Domain:** Cyber Security, Information Technology, and Network Security.



Key Contributions

- Comprehensive coverage of **cybersecurity fundamentals** and **governance practices**.
- Focus on **network, system, application, and data security mechanisms**.
- Discussion of **emerging security challenges** in cloud and mobile environments.
- Integration of **risk management principles** with practical implementation strategies.
- Valuable reference for **academic learning, professional training, and organizational security planning**.

Available At:

1. <https://www.amazon.in/Essentials-Cyber-Security-Dr-Harini/dp/9394339167>

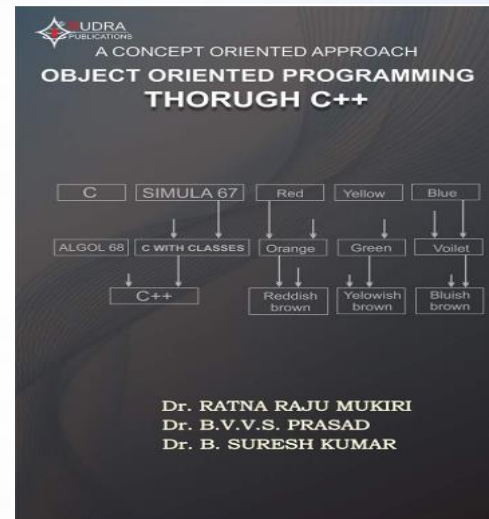
Dr. Ratna Raju Mukiri, Professor, Ph.D., Post-Doctoral Research (Vietnam)

Dr. Ratna Raju Mukiri is a distinguished academician and Professor, consistently contributed to academic excellence through research publications, patents, textbook authorship, faculty development activities, and student mentoring.

A Concept Oriented Approach Object Oriented Programming Thorough C(2019)

Publication Details:

- **Title:** *A Concept Oriented Approach Object Oriented Programming Thorough C.*
- **Author:** Dr. Ratna Raju Mukiri
- **Year of Publication:** 2019
- **Publisher:** Rudra Publications
- **ISBN-10:** 8194184029
- **ISBN-13:** 978-8194184027
- **Domain:** Computer Science, Software Engineering



Key Highlights:

- **Features** 8 structured chapters **designed for an easy, conceptual grasp of coding.**
- **Provides practical** programming examples **to illustrate abstract definitions.**
- **Covers core OOP paradigms including classes, objects, encapsulation, data abstraction, inheritance, polymorphism, and message passing.**

Available at:

1. <https://www.amazon.in/Concept-Oriented-Approach-Programming-Thorough/dp/8194184029>

Scintillating Students

Excellence finds its truest expression in the achievements of students who dare to **learn, innovate, and lead**. The students of the Department of Computer Science and Engineering have consistently demonstrated this spirit through their outstanding accomplishments in **academics, professional certifications, technical competitions, innovation, research, leadership, and community engagement**.

Driven by **curiosity** and empowered by **knowledge**, they have ventured beyond conventional learning to embrace challenges that foster **growth, creativity, and professional excellence**. Whether mastering **emerging technologies**, earning **globally recognized certifications**, developing **innovative solutions**, or representing the department on **prestigious platforms**, their achievements reflect a culture of **ambition, resilience, and continuous improvement**.

This chapter is a tribute to the remarkable individuals whose **dedication** and accomplishments illuminate the department's journey. Each success story presented here is a testament to **hard work, perseverance, and the pursuit of excellence**—qualities that define the next generation of **technology leaders and innovators**.

As we celebrate these **Scintillating Students**, we celebrate not only their achievements but also the **limitless possibilities** they represent for the future.



A Golden Legacy of Academic Excellence

The **Department of Computer Science and Engineering** proudly celebrates the outstanding achievement of **Ms. Parvatha Reddy Raja Rajeswari (H.T. No. 15F01A05C4)**, a distinguished student of the **2015–2019 Batch**, who brought great honour to the institution through her **exceptional academic performance**.

Securing an impressive **90.54% aggregate**, she emerged as the **Highest Overall Rank Holder** among all **JNTUK-affiliated colleges**, earning the prestigious **University Gold Medal**.

Adding to this remarkable accomplishment, she was also awarded the **CSC Sponsored Gold Medal** by the **Computer Society Corporation (CSC)**, New Delhi, for securing the **Top Position in Computer Science and Engineering** across the affiliated colleges of **JNTU Kakinada** and **JNTU Vizianagaram**.

Conferred during the **JNTUK Convocation** held on **9th March 2022**, these honors stand as a testament to her **academic brilliance, dedication, and pursuit of excellence**, inspiring future generations of **CSE students**.

List of Endowment Gold Medals List - (2015-2019)
Overall Topper in All Branches Sponsored by
Prof. Allam Appa Rao, Former Vice – Chancellor, JNTUK Kakinada

CSE Topper Sponsored By Computer Society Corporation, New Delhi

S.No	Gold Medal Name	Student Name	Father name	College Name	Percentage (%)
4	Computer Sciences Corporation Gold Medal	Ms. Parvatha Reddy Raja Rajeswari (H.T.No.15F01A05C4)	Parvathareddy Srinivasa Rao	St. Ann'S College Of Engg. And Tech.	90.54

LIST OF TOPPERS FROM AFFILIATED COLLEGES OF JNTUK, KAKINADA

S. No	Student Name	Branch	CC	College Name	H.T.No	Percentage (%)
				Misra-In		
5	Parvatha Reddy Raja Rajeswari	Computer Science & Engineering	F0	St. Ann'S College Of Engg. And Tech.	15F01A05C4	90.54



Sparkling Alumni

Alumni Profile

Raja Rajeswari Parvathareddy

Batch: 2015–2019

Designation: Software Development Engineer 3 (IC3)

Organisation: Oracle, Hyderabad



A Conversation with Raja Rajeswari Parvathareddy

(Interviewed by Tejaswini)

Tejaswini: Welcome, RajaRajeswari. Could you briefly share your professional journey after graduation?

RajaRajeswari:

After graduating from St. Ann's College of Engineering and Technology, I began my career with **Tata Consultancy Services** as an **Associate System Engineer**. Later, I joined **HCL Technologies** where I worked on **enterprise applications and backend development**. Currently, I am working at **Oracle** as a **Software Developer**.

Tejaswini: You had an outstanding academic record. Could you tell us about some memorable achievements?

RajaRajeswari:

One of the highlights of my academic journey was receiving **double gold medals** for securing the **highest percentage (90.54%)** among students from **270 affiliated colleges under JNTUK in 2019**. I was also **selected by nine multinational companies during campus placements**, which gave me tremendous confidence as I entered the professional world.

Tejaswini: What industry trends do you believe students should pay attention to survive the corporate drill?

RajaRajeswari:

Artificial Intelligence, cloud computing, and intelligent automation are transforming the **technology landscape**. Students should stay updated with **emerging technologies** while building a **strong foundation** in core computer science concepts.

Alumni Profile

N. Tagore Phani Krishna

Batch: 2009 – 2013

Designation: Head of Technology

Organisation: Decharge – Aarkay Spatial Computing LLP



An Inspiring Conversation with Mr. Tagore

(Interview by Asif)

Asif: Tagore, your journey from campus to technology leadership has been remarkable. How did it all begin?

Tagore:

It began with a **campus incubation initiative** that gave me my **first opportunity** in the industry. I started as an **Intern**, later becoming an **Associate Software Engineer**, developing **BlackBerry games** and **Android applications**. Those early experiences taught me resilience, teamwork, and the value of continuous learning.

Asif: Your career spans several emerging technologies. Tell us about that journey.

Tagore:

Curiosity led me to explore **AR, VR, Metaverse** technologies, and **Blockchain ecosystems**. I contributed to innovative **digital experiences** and an **EV-focused Blockchain initiative** that successfully secured **\$2.5 million in funding**. These experiences reinforced the importance of embracing change and staying adaptable.

Asif: What advice would you like to share with our students?

Tagore:

Build **strong fundamentals**, stay curious, and never wait for the perfect opportunity. **Learn continuously, embrace challenges**, and focus on creating **meaningful impact**. Your growth begins the moment you take responsibility for it.

Every **successful alumnus** was once a student of this department. Inspired by their success and guided by our **dedicated faculty**, the current generation continues to strengthen our **legacy of excellence** through **academic excellence, innovation**, and a commitment to **lifelong learning**.

ACADEMIC TOPPERS

Academic Excellence is a hallmark of the **Department of Computer Science and Engineering** at **St. Ann's College of Engineering & Technology**. We take immense pride in recognizing and celebrating these **Academic Toppers** of the **Academic Year 2022–2023**, whose success serves as an inspiration to their peers and exemplifies the department's commitment to nurturing **future-ready professionals**.

I year I Sem

S. No	HTNO	Student Name	%
1	22F01A05I6	VEESAM MALLIKARJUNA	90.96
2	22F01A05H8	UPPALA PALLAVI	89.42
3	22F01A0540	GANDIKOTA BALA AYYAPPA	87.88
4	22F01A0512	BETHAPUDI DORKA	87.88
5	22F01A0578	KOTHA VENKATA LAKSHMI SAHITHI	87.88

II year I Sem

S. No	HTNO	Student Name	%
1	21F01A05H5	PERISETLA KIRANMAYEE	86.62
2	21F01A05H0	NEELI MADHURASRI	85.44
3	21F01A0515	BANDLA SAI VINAY CHAKRAVARTHI	85.25
4	21F01A05G0	LAKSHMI PRIYA YELLELA	84.26
5	21F01A05F1	GUNJI VARSHINI	84.26

III Year I Sem

S. No	HTNO	Student Name	%
1	20F01A05G8	PINJALA BHAVANA	87.21
2	20F01A05H5	SHAIK JAMEER BASHA	87.21
3	20F01A05I2	SYED SHAFIA KAUSER	87.21
4	20F01A05I8	VINJAMURI VENKATA AMRUTHA	87.21
5	20F01A05E7	GOVADA LAKSHMI THIRUPATHAMMA	86.07

IV Year I Sem

S. No	HTNO	Student Name	%
1	19F01A05C6	PANCHUMARTHI NAGALAKSHMI	81.41
2	19F01A05C8	PANNURI PAVANI	81.41
3	19F01A0574	KANAPARTHI VENKATA MANISHA	80.08
4	19F01A0538	DAMARLA SANDHYA SRI	78.75
5	19F01A0572	KAMISSETTY NAVITHA SRI	78.75

I year II Sem

S. No	HTNO	Student Name	%
1	22F01A0578	Kotha Venkata Lakshmi Sahithi	89.42
2	22F01A0581	Kunchala Revathi	87.88
3	22F01A05H5	Udatha Thanusri	86.35
4	22F01A05H8	Uppala Pallavi	86.35
5	22F01A05I6	Veesam Mallikarjuna	86.35

II year II Sem

S. No	HTNO	Student Name	%
1	21F01A05I1	Ramanadham Tevo Pavani	86.92
2	21F01A0523	Bokkisam Bhavana Sreeja	84.13
3	21F01A05I5	Seelam Amrutha	81.8
4	21F01A05I9	Siddam Sathvika	81.34
5	21F01A05G9	Nandipati Hema Sai Varshitha	81.34

III Year II Sem

S. No	HTNO	Student Name	%
1	20F01A05I8	Vinjamuri Venkata Amrutha	82.70
2	20F01A05G9	Pondugala Pujitha	81.30
3	20F01A05C8	Akurathi Siva Parvathi	78.50
4	20F01A05H7	Shaik Karishma	78.46
5	20F01A05E7	Govada Lakshmi Thirupathamma	78.38

IV Year II Sem

S. No	HTNO	Student Name	%
1	19F01A05B6	Nalam Hari Priya	85.00
2	19F01A0567	Kagga Jaya Sravani	83.10
3	19F01A05E3	Pokuri Alekhya	83.09
4	19F01A05B3	Mutthe Vijaya Sireesha	83.09
5	19F01A0559	Gudivada Yamini Lakshmi Durga	83.07

Our students consistently demonstrate **exceptional dedication, perseverance**, and a **passion for learning**, achieving **outstanding academic performance** across every semester. Their remarkable accomplishments reflect not only their **hard work** but also the unwavering support of our **faculty**, **innovative teaching practices**, and a **vibrant learning environment**.

Placement Achievements

The **Department of Computer Science and Engineering** takes immense pride in the outstanding **Placement Achievements** of the **Batch 2019–2023**, reflecting the department's unwavering commitment to **academic excellence**, **industry-oriented learning**, and **career readiness**.

These remarkable accomplishments stand as a testament to the dedication of our **students**, the guidance of our **faculty**, and the strong support of the **Training & Placement Cell**. We **congratulate** all the placed students and wish them continued success as they embark on their professional journeys.

Our Pride Accomplishers

 Aduri Ganesh Prasad 19F01A0501 KSHIMA	 Adusumalli Akash Preetham 19F01A0502 INFOCEPTS	 Akurathi Likhitha Hari 19F01A0503 ACCENTURE	 Alapana Gowri 19F01A0504 INNOVASPHERE	 Allam Durga Prasad 19F01A0505 COFORGE
 Amara Pavani 19F01A0506 ADIT	 Amara Sai Priya 19F01A0507 CONCENTRIX	 Atla Yedukondalu Reddy 19F01A0510 NEC	 Avanigadda Roja Sai 19F01A0511 PRASTHANA	 Bachina Sai Sarvesh 19F01A0512 STUAM
 Bandaru Dileep Gopi Krishna 19F01A0513 EXPRESS AUTOMATION	 Bandaru Supraja 19F01A0514 TACHYON	 Barige Neeraja 19F01A0515 CONCENTRIX	 Bathula Anna Keziah 19F01A0516 THOUGHTWORKS	 Bethala Susmitha 19F01A0519 TCS

 Bollimuntha Sai Venkata Abhinav 19F01A0520 CADSYS	 Bondalapati Yojitha 19F01A0521 CODETANTRA	 Bondi Essaku 19F01A0522 RADIANT	 Bontagorla Rajyalakshmi 19F01A0523 TCS	 Boyina Sumanth Yadav 19F01A0524 COFORGE
 Buradagunta Bharath 19F01A0525 TELE PERFORMANCE	 Burlagadda Asha Jyothi 19F01A0526 HCL TECH SUTHERLAND	 Busanaboina Indhira 19F01A0527 ECOLAB	 Chandrika Rani Angadi 19F01A0528 TECH MAHINDRA	 Chapala Jyothsna 19F01A0529 ECOLAB
 Chukka Sree Lakshmi 19F01A0532 COGNIZANT	 Chunduri Venkata Naga Prabhavathi 19F01A0533 TCS	 Dadi Vamsi 19F01A0534 NEC	 Daggubati Harshadeep 19F01A0535 WIPRO	 Dakkumalla Tejaswi 19F01A0537 CODETANTRA
 Damarla Sandhya Sri 19F01A0538 NAGARRO, VERISK	 Dandela Sai Sreeja 19F01A0540 INNOVASPHERE	 Danduprolu Trinadh 19F01A0541 TRICON INFOTECH	 Dasari Issac Satya Raju 19F01A0542 AMAZON	 Devana Rekha Sri 19F01A0544 TCS
 Devarapalli Roji Kumari 19F01A0546 COGNIZANT	 Duddu Venkata Sai Navya 19F01A0547 CONCENTRIX	 Gariganti Venkata Surekha 19F01A0550 COFORGE	 Godavarthi Sai Nikhila 19F01A0554 HEXAWARE, ACCENTURE	 Goli Dharani 19F01A0556 CONCENTRIX

 Gutti Keerthi 19F01A0563 INNOVASPHERE	 Kagga Jaya Sravani 19F01A0567 CONCENTRIX	 Kakumanu Lakshmi Tirupatamma 19F01A0570 COFORGE	 Kamarajugadda V S Sidhardha Saradhi 19F01A0571 COGNIZANT	 Kamisetty Navitha Sri 19F01A0572 INFOCEPTS
 Kanaparathi Divya 19F01A0573 SUTHERLAND	 Kanaparathi Venkata Manisha 19F01A0574 SUTHERLAND	 Karna Niranjana 19F01A0575 ACCENTURE	 Katta Pavani 19F01A0577 HEXAWARE	 Kavarthapu Likhitha 19F01A0578 SUTHERLAND
 Kocharla Anjali 19F01A0579 SUTHERLAND	 Kokkiligadda Siva Subramanyam 19F01A0580 INFOCEPT	 Komarabathini Ian William Kery 19F01A0581 SUTHERLAND	 Kondapalli Likhitha 19F01A0583 BECTRAN	 Kondavaradala Poorna Sowjanya 19F01A0584 ADIT
 Kondaveeti Sai Nikhitha 19F01A0585 SUTHERLAND	 Kranthi Kiran Kanaparthy 19F01A0587 ACCENTURE	 Kuchipudi Kavaya 19F01A0588 INNOVASPHERE	 Kummari Siva Gopi Reddy 19F01A0589 SUTHERLAND	 Lakhitha Kaja 19F01A0590 CONCENTRIX
 Lakkakula Dharani 19F01A0591 NEC	 Linga Sahithi 19F01A0592 HEXAWARE	 Macharla Sarath 19F01A0593 TECH MAHINDRA	 Mada Krishna Vamsi 19F01A0594 COFORGE	 Maddiboina Pavani Divya 19F01A0595 NEC

 Makkena Charitha 19F01A0596 CODETANTRA	 Manchala Mounika 19F01A0597 TACHYON	 Maddula Manikanta Sai 19F01A0598 NAGARRO	 Marina Tarun Kumar Reddy 19F01A0599 THOUGHTWORKS	 Marri Bhargavi 19F01A05A0 CONCENTRIX
 MBL Rohith 19F01A05A3 TECH MAHINDRA	 Meruga Karunanidhi 19F01A05A4 TELEPERFORMANCE	 Mervu Asritha 19F01A05A5 FLIPKART	 Mervu Priyanka 19F01A05A6 CONCENTRIX	 Midatala V V S Naga Dilip Kumar 19F01A05A7 NAGARRO
 Middiboyina Suresh 19F01A05A8 TRICON INFOTECH	 Moddugula Vyshanvi 19F01A05B0 INFOCEPT	 Mutte Karthik Srinivas 19F01A05B2 WIPRO	 Naidu Naveen 19F01A05B5 COFORGE	 Neerukattu Karunya 19F01A05B8 TACHYON
 Nikhila Vaka 19F01A05B9 CODETANTRA	 Nunna Venkatesh 19F01A05C0 SUTHERLAND	 Padavala Mamatha 19F01A05C2 THOUGHTWORKS	 Pagadala Rajesh 19F01A05C3 SUTHERLAND	 Pannuri Pavani 19F01A05C8 INFOCEPT
 Parasuram Kavitha 19F01A05C9 AMAZON	 Parimi Divya 19F01A05D1 PRASTHANA	 Pasupuleti Yaswanth Ankammarao 19F01A05D3 ADIT, ACCENTURE	 Patchipulusu Balaji Subbarao 19F01A05D4 NAGARRO	 Pathan Yaseen Khan 19F01A05D5 CADSYS

 Pattipati Harisha 19F01A05D6 SUTHERLAND	 Pinjala Vinay 19F01A05D7 SOTI	 Pinnaka Srinanda 19F01A05D8 SUTHERLAND	 Pitti Brahma Reddy 19F01A05D9 INFOCEPT	 Pittu Siva Teja Reddy 19F01A05E1 VERISK
 Pokuri Alekhya 19F01A05E3 NAGARRO	 Pothini Ruchitha 19F01A05E5 COFORGE	 Potturi Hima Bindu Vasavi 19F01A05E7 TCS	 Pucha Srinivasa Pavan 19F01A05E8 NEC	 Pullela Venkata Siva Lakshmi Sindhu 19F01A05E9 THOUGHTWORKS
 Pulugu Kranthi Kumar Reddy 19F01A05F0 INFOCEPT	 Putta Ganga Mani Kanta 19F01A05F1 SUTHERLAND	 Rai Venkata Sai Keerthi Lakshmi 19F01A05F2 SUTHERLAND	 Rayani Harika 19F01A05F3 SUTHERLAND	 Shaik Abubakar Siddique 19F01A05F6 HEXAWARE
 Shaik Asif 19F01A05F7 VALUELABS	 Shaik Farhan 19F01A05F8 WIPRO	 Shaik Jafar Shareef 19F01A05F9 VERISK	 Shaik Karimulla 19F01A05G1 CODETANTRA	 Shaik Gajini 19F01A05G2 TRICON INFOTECH
 Shaik Mohamad Johny 19F01A05G3 VERISK	 Shaik Riyaz 19F01A05G5 COGNIZANT	 Shaik Shafeen 19F01A05G6 ADIT	 Shaik Shaheer Ahamad 19F01A05G7 NEC	 Shaik Sufiya 19F01A05G8 VERISK

 Sivarathri Ramu 19F01A05G9 VERISK	 Sruthi Kotapati 19F01A05H0 HEXAWARE	 Sundaram Hamsalekha 19F01A05H1 CONCENTRIX	 Syed Habeeba Sulthana 19F01A05H2 TECH MAHINDRA	 Syed Mabu Subhani 19F01A05H3 TACHYON
 Tadiparthi Sashi Rekha 19F01A05H4 CONCENTRIX	 Thota Nitish Kumar 19F01A05H7 SUTHERLAND	 Thumati Rahul 19F01A05H8 PRASTHANA	 Thummalapenta Venkata Kavya 19F01A05H9 COFORGE	 Tuppakula Teja Venkata Sai Kumar 19F01A05I0 HEXAWARE
 Udatha Sri Lahari 19F01A05I1 SUTHERLAND	 Unnava Akhila 19F01A05I2 VERISK	 Vallepu Gopi Krishna 19F01A05I4 TRICON INFOTECH	 Vanka Devi Mani Sai Sushma 19F01A05I5 TCS	 Vankayalapati Haritha Naga Neha 19F01A05I6 NEC
 Vasabhaktula Naga Satya Sai Alekhya 19F01A05I7 CONCENTRIX	 Vutukuri Lakshmi Vyshnavi 19F01A05I9 NAGARRO	 Vutukuri Yaswanth 19F01A05J0 COFORGE	 Vuyyuru Sravya 19F01A05J1 TECH MAHINDRA	 Yetra Geethika Sravani 19F01A05J2 CONCENTRIX
 Zakirahammad SK 19F01A05J3 NAGARRO	 Akkala Kusuma 20F05A0501 TACHYON	 Perikala Suvarna Roja 20F05A0506 PRASTHANA	 Pittu Shanmukha Sridhar Reddy 20F05A0507 ACCESS MEDITECH	 Yenumula Priyanka 20F05A0511 COFORGE

Industry Collaborations through Memoranda of Understanding (MoUs)

The Department of Computer Science and Engineering continued to strengthen its industry partnerships to bridge the gap between academia and industry. These collaborations facilitated **industry-oriented training, internships, faculty development programs, certification courses, workshops, and placement support**, thereby enhancing students' technical competencies and employability. The department not only entered into new strategic partnerships but also effectively leveraged existing MoUs to provide continuous learning opportunities.

A. Newly Signed MoUs

S.No	Industry Partner	Date of Signing	Nature & Scope of Collaboration	Expected Benefits
1	ExcelR, Hyderabad	10-10-2022	Training, Workshops, Internships, FDPs in AI, Data Science & Cloud	Skill development through industry-led training, internships, and faculty development programmes.
2	Manac Infotech Pvt. Ltd., Hyderabad	12-03-2023	Industry Training, Workshops, Internships	Improved industry readiness through certification programmes and internship opportunities.
3	TR Tech Solutions, Hyderabad	23-08-2023	Training, Recruitment Assistance, Workshops, Internships	Software development exposure, certification programmes, internships, and recruitment support.

B. Active MoUs Supporting Student Development

S.No	Industry Partner	MoU Validity	Major Areas of Collaboration
1	Brain 'O' Vision, Hyderabad	05-09-2016 to 05-09-2026	Training, Workshops, FDPs, Projects, Internships
2	Indian Servers, Vijayawada	10-08-2017 to 10-08-2027	Training, Workshops, Cybersecurity, AI/ML Projects, FDPs
3	Make Skilled, Vijayawada	08-08-2020 to 08-12-2030	Training, Workshops, Internships, Projects, Hackathons
4	ExcelR, Hyderabad	10-10-2022 to 10-10-2024	AI, Data Science & Cloud Training, Workshops, Internships
5	Manac Infotech Pvt. Ltd., Hyderabad	12-03-2023 to 11-06-2030	Industry Training, Workshops, Internships
6	TR Tech Solutions, Hyderabad	23-08-2023 to 23-08-2032	Training, Recruitment Assistance, Workshops, Internships

Scholarship Beneficiaries

The Department of Computer Science and Engineering takes pride in its contribution to the institution's outstanding achievement under the prestigious **AICTE Pragathi Scholarship Scheme** during the **Academic Year 2022–2023**. Designed to support deserving students in pursuing higher education, the scheme promotes **Academic Excellence, Educational Empowerment, and Inclusive Growth**.

During the year, the institution secured the **1st Position in the District** and **4th Position in the State** under the Pragathi Scholarship Scheme. **The CSE Department proudly contributed 14 scholarship beneficiaries** to this remarkable accomplishment, reflecting its commitment to nurturing talent and creating opportunities for academic success.

The department congratulates all scholarship recipients for their achievement and wishes them continued excellence in their academic and professional pursuits.

Student Name	Student Name	Student Name
K. Mohana Pravallika	Murikipudi Ramya	U. Pallavi
K. Sindhura	N. Likhitha	U. Thanusri
K. Vani Priya	Paleti Sushma	Piduguralla Sanjana
M. Nandini Kumari	Pusuluri Maha Lakshmi Sowjanya	J. Kalyani (LE-CSE)
Malli Nikitha	Satram Gayatri	

The department congratulates all scholarship recipients for this noteworthy accomplishment and wishes them continued success in their academic and professional endeavours.


ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY
AUTONOMOUS
ESTD : 2001
By-Pass Road, Vetapalem, Chirala - 523187, Bapatla District, Andhra Pradesh.

HEARTY CONGRATULATIONS



SACET ROCKS AGAIN IN PRAGATI SCHOLARSHIPS
2022-23




Approved by AICTE-New Delhi & Permanently Affiliated by JNTUK, Kakinada | Recognised by UGC u/s 2(f) & 12(B) | Accredited by NBA (4 Times) | Accredited by NAAC with "A" Grade (1st, 2nd & 3rd Cycle) | Accredited by Institute of Engineers (I) | Awarded "A" Grade by AP State Government

IIT Bombay Spoken Tutorial Certifications

The Department of Computer Science and Engineering has consistently encouraged students to strengthen their technical competencies through the **IIT Bombay Spoken Tutorial Project**, a national initiative funded by the **Ministry of Education, Government of India**. The project offers **self-learning, industry-relevant** courses that enable students to acquire **practical programming** and **software skills** while earning nationally recognized certifications. During the **Academic Year 2022–2023**, the department witnessed enthusiastic participation from students across different years, resulting in an impressive number of successful certifications.



Certification Highlights

Achievement	Highlights
Programme	IIT Bombay Spoken Tutorial Certification Programme
Academic Year	2022–2023
Total Certifications Earned	1,940
Student Participation	Enthusiastic participation from II, III & IV Year CSE students
Skill Domains Covered	Programming, Open Source Technologies, Web Development, Databases & Data Analytics
Certification Courses	Linux, Python, C & C++, Java, Advanced C++, HTML, R Programming & PostgreSQL
Learning Outcome	Enhanced practical skills, coding proficiency and industry readiness
Recognition	National-level certification under the IIT Bombay Spoken Tutorial Project

NPTEL Certification Excellence

The Department of Computer Science & Engineering continues to foster a culture of **continuous learning** by encouraging students to pursue industry-recognized certifications through the **NPTEL (National Programme on Technology Enhanced Learning)** platform.

During the **Academic Year 2022–2023**, an impressive **252 students** enrolled in various NPTEL courses, out of which **239 students successfully earned certifications**, achieving an overall **94.8% certification rate**. The certifications covered a wide spectrum of emerging and core computing domains including **Python Programming, Database Management Systems (DBMS), Machine Learning, Computer Networks, Internet of Things (IoT), Big Data, and Cyber Security**.

These achievements reflect the department's commitment to **enhancing technical competence, promoting self-paced learning, and preparing students with industry-relevant skills** beyond the curriculum.

NPTEL Certification Snapshot

Particulars	Details
Academic Year	2022–2023
Students Registered	252
Students Certified	239
Certification Rate	94.8%
Key Domains	Python, DBMS, Machine Learning, Computer Networks, IoT, Big Data, Cyber Security

ISTE and CSI Student Chapters

The **Indian Society for Technical Education (ISTE)** and the **Computer Society of India (CSI)** Student Chapters of the Department of **Computer Science & Engineering** serve as dynamic platforms for nurturing **technical competence, professional excellence, leadership, innovation, and ethical values** among students.

The department has been an active institutional member of **ISTE**, with the **ISTE Student Chapter (Code: AP119)** established in **2007**, providing students with opportunities to participate in a wide range of **technical, academic, and professional activities**. Complementing this, the **CSI Student Chapter** promotes industry-oriented learning by encouraging students to engage with emerging technologies, computing practices, and professional networking.



Highlights of Professional Chapter Activities

Date	Chapter	Event
12 Jul 2022	CSI	Guest Lecture on Cloud Computing (AWS)
26 Jul 2022	ISTE	National Paper Presentation on Innovative Trends in AI
24 Aug 2022	CSI	National Paper Presentation on Network Security
14 Sep 2022	ISTE	Guest Lecture on Blockchain Security
21 Sep 2022	ISTE	Workshop on Emerging Trends in Cyber Security
19 Oct 2022	CSI	Workshop on Git & GitHub Mastery
19 Jan 2023	ISTE	Hackathon Contest
16 Feb 2023	CSI	Workshop on Chatbots and Virtual Assistants
24 Feb 2023	ISTE	Guest Lecture on SDN Networking
16 Mar 2023	CSI	Technical Paper Writing Competition – AlgoScripts
28 Mar 2023	ISTE	Seminar on IEEE/Scopus Research Writing
19 Apr 2023	CSI	Tech Charades Competition
26–27 Jul 2023	ISTE	Two-Day Workshop on Cloud Computing
08 Aug 2023	CSI	Guest Lecture on Entrepreneurship and Venture Creation
17–18 Aug 2023	CSI	Two-Day Full Stack Bootcamp

Together, these professional chapters bridge the gap between **classroom learning and industry expectations** through **guest lectures, workshops, hackathons, technical competitions, paper presentations, seminars, hands-on training programmes, and expert interactions**. These initiatives enhance students' **technical knowledge, communication skills, problem-solving ability, innovation capability, teamwork, and leadership qualities**, while exposing them to the latest developments in engineering and technology.

CRUISERS ELITE

— Empowering Innovation, Leadership & Technical Excellence —



OUR KEY ACTIVITIES

Technical Knowledge & Quiz Competitions
Programming & Problem-Solving
Communication & Critical Thinking
Innovation, Creativity & Team Building



Cruisers Elite is the flagship **student-led technical club** of the Department of Computer Science and Engineering, dedicated to nurturing a culture of **Innovation, Technical Excellence, Leadership, and Collaborative Learning**. Established with the vision of empowering students beyond the classroom, the club serves as a dynamic platform where aspiring technologists engage in activities that foster **critical thinking, problem-solving, communication skills, and professional development**.

Driven entirely by students, Cruisers Elite provides opportunities to participate in **technical quizzes, coding challenges, debates, group discussions, idea presentations, and innovation-oriented events**. Through these engaging activities, students not only strengthen their technical competencies but also cultivate essential qualities such as **teamwork, creativity, leadership, and confidence**.

By promoting **peer learning, knowledge sharing, and healthy competition**, Cruisers Elite continues to inspire students to explore new ideas, embrace challenges, and emerge as future-ready professionals equipped for success in a rapidly evolving technological landscape.

ByteBuzz – Where Technology Meets Creativity

ByteBuzz is a vibrant space where **Technology, Innovation, Creativity, and Fun** converge. From insightful articles and emerging tech trends to brain teasers, puzzles, and creative expressions, it celebrates ideas that inspire learning and imagination beyond the classroom.

Tech Trends

Prompt Engineering

The rapid rise of **Generative Artificial Intelligence (AI)** has transformed the way people interact with computers. **Prompt Engineering** is the practice of designing clear and effective instructions, known as *prompts*, to help AI models generate accurate, relevant, and meaningful responses. Well-crafted prompts enable users to obtain better answers, generate code, create content, solve problems, and perform various creative and technical tasks more efficiently.

Applications: Assisting with content creation, programming, education, research, brainstorming ideas, document summarization, and conversational AI.

Advantages

- ✓ Produces more accurate and relevant AI responses
- ✓ Enhances productivity and creativity
- ✓ Helps generate code, reports, and learning materials efficiently
- ✓ Requires no programming knowledge for basic use

Article by |



A. Anuhya

20F01A0505

Limitations

- ✗ Quality of results depends on how well the prompt is written
- ✗ AI responses may still contain incorrect or biased information
- ✗ Sensitive or confidential information should not be shared with public AI tools

Try It Yourself

Platforms: ChatGPT, Google Bard, Microsoft Bing Chat

Access: Free accounts available.

Docker: Revolutionizing Application Deployment

Developing software is only half the battle; ensuring that it runs consistently across different systems is equally important. **Docker** is an open-source **Containerization Platform** that enables developers to package applications along with their dependencies into lightweight, portable units called **Containers**. These containers can run seamlessly on any system, eliminating the common “it works on my machine” problem.

Unlike traditional virtual machines, Docker containers share the host operating system, making them faster, more efficient, and less resource-intensive. This has made Docker a cornerstone technology in **Cloud Computing**, **DevOps**, and **Modern Software Development**.

Today, organizations use Docker to simplify application deployment, improve scalability, and accelerate software delivery. Whether it is a web application, database, or microservice, Docker helps developers create consistent environments from development to production.

Advantages

- ✓ **Portable** – Run applications consistently across different systems.
- ✓ **Lightweight** – Uses fewer resources than virtual machines.
- ✓ **Fast Deployment** – Simplifies software distribution and updates.
- ✓ Supports **Microservices Architecture** and cloud-native applications.

Limitations

- ✗ Requires learning container concepts and commands.
- ✗ Containers share the host operating system, which may introduce security considerations.
- ✗ Managing large numbers of containers may require additional tools such as Kubernetes.

Try It Yourself

Students can explore Docker for free through **Docker Hub** and **Play with Docker**.

Website: <https://www.docker.com/>

Practice Platform: <https://labs.play-with-docker.com/>



Article by

C. Manideep

20F01A0516

CYBERSLEUTH

The Suspicious Login

A high-security enterprise server records the following login activity for a single user account:

Time	User	Status
10:01 AM	Alex	✗ FAILED
10:02 AM	Alex	✗ FAILED
10:03 AM	Alex	✗ FAILED
10:04 AM	Alex	✓ SUCCESS

Security Notes

- The organization enforces a **16-character minimum password policy**.
- Passwords must contain a mix of uppercase, lowercase, numbers, and symbols.
- Passwords are randomly generated and considered **high entropy**.
- During the investigation, Alex insists: *“I entered my password correctly every single time.”*

Your Mission

If Alex is telling the truth, what is the **most likely explanation** for this login pattern?

Options

- A) A browser bug repeatedly submitted outdated cached credentials before using the latest saved password.
- B) A successful credential-stuffing or brute-force attack guessed the password on the fourth attempt.
- C) Temporary database corruption caused the authentication service to reject valid credentials.
- D) A server restart reset the authentication microservice, causing the first three attempts to fail.

Think Like a Security Analyst

Before choosing, consider:

- How realistic is a brute-force success against a high-entropy password?
- Would database corruption affect only one account and then magically resolve?
- Does a server restart typically invalidate correct passwords?
- Could a client-side issue repeatedly send incorrect credentials while the user believes they entered the right one?

Answer

A) browser bug repeatedly submitted outdated cached credentials before using the latest saved password.

Why?

With a **strong 16+ character password**, a successful brute-force attack within four attempts is extraordinarily unlikely.

If Alex truly entered the correct password every time, a plausible explanation is that the browser or password manager initially transmitted an older cached credential. Once synchronization or autofill refreshed, the correct credential was submitted and authentication succeeded.

Why Not the Others?

B) Credential Stuffing / Brute Force

A high-entropy password being guessed in exactly four attempts is highly improbable.

C) Database Corruption

Database corruption would likely affect multiple users or produce broader authentication anomalies rather than a neat three-fail-one-success sequence.

D) Server Restart

Authentication systems are designed to persist credentials across restarts; a restart alone would not selectively reject valid passwords.

Cyber Insight

In cybersecurity investigations, the most suspicious-looking pattern is not always an attack. Correlating logs with client behavior, browser state, password managers, and authentication workflows is often the key to uncovering the real cause.

Not every failed login is a hacker—sometimes the culprit is the client itself.

By



Shaik Asif

20F01A05H4

Brain Tweeze

PUZZLE 1: Decode the URL

Can You Decode This Web Address?

<https://tinyurl.com/4z8xk9ab>

Challenge

Using only the URL above, identify the following:

Clue	Your Answer
1. Protocol	_____
2. Domain Name	_____
3. Top-Level Domain (TLD)	_____

Hints

- The **Protocol** tells your browser **how to communicate** with the website.
- The **Domain Name** is the **main identity** of the website.
- The **TLD** is the **last part** of the domain (such as **.com**, **.org**, **.edu**).

PUZZLE 2: Caesar Cipher Challenge

Crack the Secret Message!

A **Caesar Cipher** shifts every letter in the alphabet by a fixed number of positions.

Encrypted Message

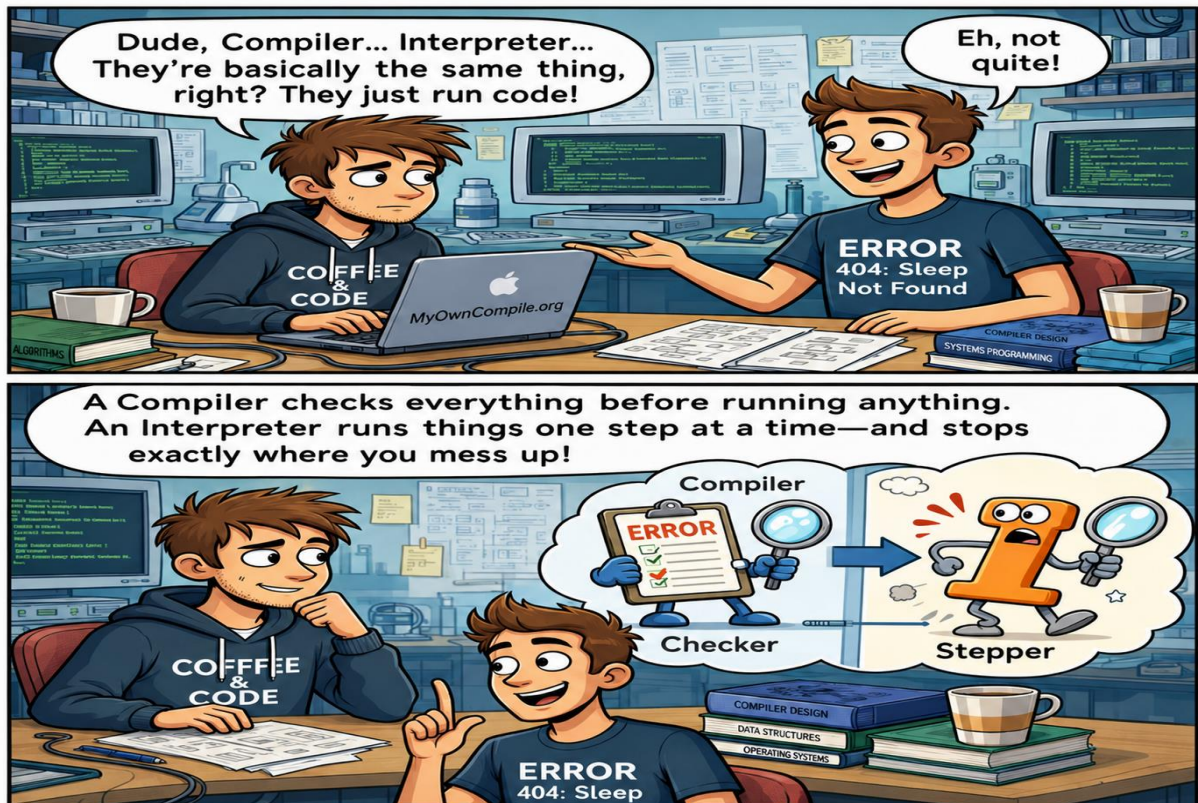
M PSZI GWI

Hint

Shift = 4

Can you reveal the hidden message?

THE CSE CHRONICLES



By



J. SUDHEER BABU

20F01A0538

Brain Tweeze

Answers

PUZZLE 1: Decode the URL	PUZZLE 2: Caesar Cipher Challenge
- Protocol: https - Domain Name: tinyurl - TLD: .com	I LOVE CSE

A Spirit of Sportsmanship

At the Department of Computer Science & Engineering, learning extends far beyond classrooms and laboratories. Students enthusiastically participate in a variety of sports and games that promote **teamwork, discipline, leadership, and physical fitness**. These activities provide a refreshing break from academic routines while fostering a healthy competitive spirit and lifelong friendships.

From thrilling **Cricket** matches and energetic **Volleyball** games to exciting **Throwball, Kho Kho, Kabaddi, Badminton**, ...etc our students actively showcase their sporting talent throughout the academic year. Whether competing in inter-departmental tournaments or college-level championships, they display remarkable determination, resilience, and sportsmanship.

At TechVista, we proudly celebrate these moments that inspire a balanced lifestyle where **academic excellence** goes hand in hand with **physical well-being**, proving that true success lies in excelling both on the field and in the classroom.



ARKLAN – A Celebration of Togetherness

The Department of **Computer Science & Engineering** celebrates its annual **Departmental Function**, a much-awaited tradition that serves as a **farewell to the outgoing final-year students**, **Departmental Topper Prize Distribution**, and a grand cultural celebration. To make every edition unique and memorable, the event is organized each year under a **distinctive theme and title**. This year is aptly named "**ARKLAN**," reflected the spirit of **celebration, achievement, friendship, and new beginnings**.

ARKLAN commenced with the **felicitation of departmental toppers**, recognizing their academic excellence and inspiring fellow students to strive for greater achievements. The celebration then transitioned into a heartfelt **farewell ceremony**, where faculty members and juniors expressed their gratitude and extended their best wishes to the graduating batch as they prepared to embark on new professional and academic journeys.

The event came alive with **solo and group dance performances, musical acts, and other cultural programs**, showcasing the creativity and talent of CSE students. The vibrant atmosphere, enthusiastic participation, and beautifully decorated venue transformed the occasion into a memorable celebration filled with joy and togetherness.

The festivities concluded with a **grand lunch**, where students and faculty shared conversations, captured photographs, and cherished the bonds built over the years. More than just an annual function, **ARKLAN 2023** stood as a celebration of **excellence, unity, gratitude, and lasting memories**, leaving every participant with moments to treasure for a lifetime.



From Editorial Team

As we reach the final pages of **TechVista**, we look back with pride and gratitude on the journey of bringing this inaugural edition to life. This magazine is a reflection of the **creativity, innovation, achievements, and aspirations** that make our Department of Computer Science & Engineering vibrant and inspiring.

As the **Student Editorial Team**, creating TechVista has been a rewarding experience that strengthened our **teamwork, collaboration, and learning**. Every contribution and achievement featured in these pages represents the collective spirit and enthusiasm of our department.

We sincerely thank our **Management, Principal, Head of the Department, faculty members, Faculty Mentor, department staff, and fellow students** for their constant encouragement, guidance, and support. Their contributions have made this edition truly meaningful.

We hope **TechVista** serves as a cherished record of our memories, milestones, and accomplishments, while inspiring us to continue learning, innovating, and striving for excellence.

With gratitude for the journey behind us and excitement for what lies ahead, we proudly conclude this edition.

—Student Editorial Team (TechVista)
Department of Computer Science & Engineering

The Team Behind Tech Vista

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 M. Padmaja (20F01A05G7) Content & Documentation Editor	 D. Syam Kumar (20F01A05D7) Proofreading Editor	 CH. JYOTHI (20F01A05D6) Creative Editor	Mrs. M. Anusha Assistant Professor

Happy Engineers Day



Birth anniversary of
Mokshagundam
Visvesvaraya

The engineer has been, and is, a
maker of history