POSTGRADUATE DEPARTMENT OF COMPUTER SCIENCE

INTERLOOK

BI- ANNUAL NEWSLETTER

VOLUME 3 | ISSUE 1 | NOVEMBER 2023

Embrace the Latest Trends
They Shape the Innovations of Tomorrow

Vol - 3
Nov 2023

KEY HIGHLIGHTS

Tech Expo'23

Boot Camp 2.0

Student Insights

Guest Glimpse

Tech Snippets

Aditya-L1 And AI

Quantum Computing Applications

Cryptography

Breaking encryption

Quantum-resistant encryption
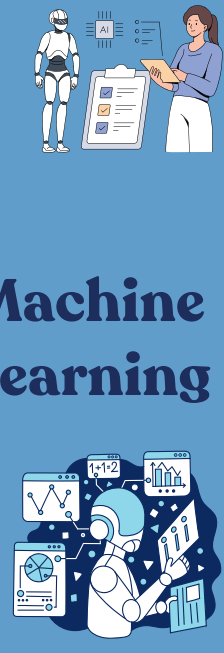
Route optimization

Faster data processing

Machine Learning

Optimization Problems

Resource allocation

Quantum algorithms

Quantum-level simulations

New materials discovery

Materials Science

BLOCKCHAIN

USERNAME

LOGIN

CYBER SECURITY

SEO

PPC

AI
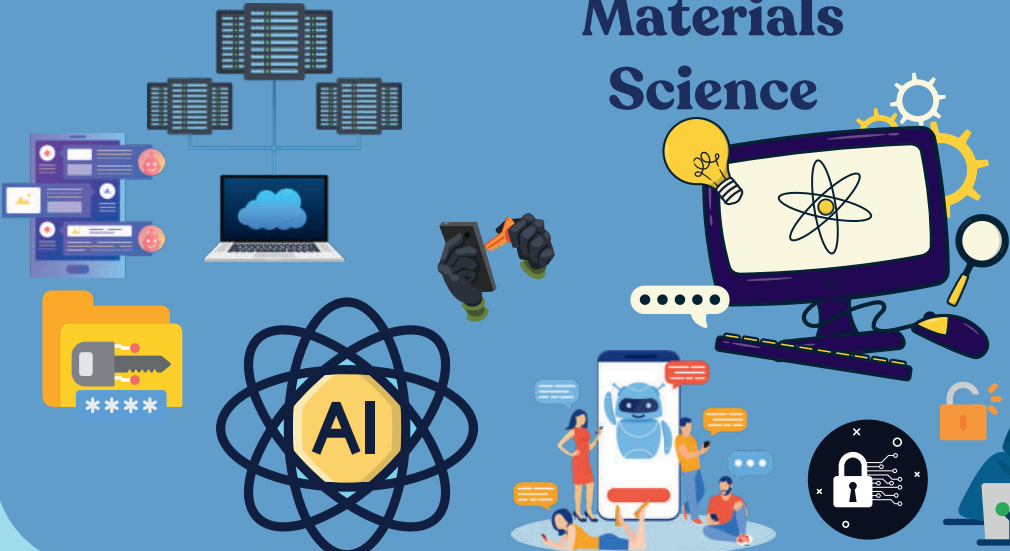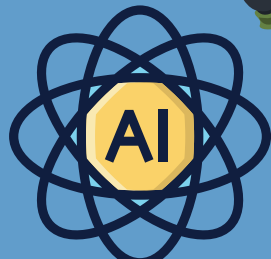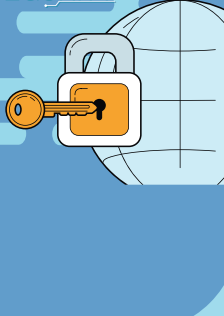
EDITORS' COLLECTION OF ENGAGING NARRATIVES

Computers are famous for being able to do complicated things starting from simple programs. - Seth Lloyd

As we continue to navigate the challenges of the current times, it is more important than ever to stay connected and informed. Through the Volume 3 Issue 1 of INTERLOOK, we aim to create a platform that will encourage, educate, and inform our students about the Department activities.

The journey in the making of this newsletter was pleasant and thrilling with our enthusiastic editorial team working relentlessly in their attempt to compile a masterpiece. This newsletter intends to act as a communication tool to strengthen our ties with our Students, Alumni, Parents, Industry partners and Stakeholders.

The subject area for this issue is "Quantum computing" which has the capability to sift through huge numbers of possibilities and extract potential solutions to complex problems and challenges. It offers enormous potential for developments and problem-solving in many industries. Compared to traditional computing done by a classical computer, a quantum computer can store much more information and operate with more efficient algorithms.

In this newsletter, we have reported significant achievements and activities of the staff and students of the Department as well as the optimistic writeup of the Guests and Alumni. Details of the events held on campus are wrapped up with a report. The Pride of the Department has been highlighted with her awards.

We would like to thank the faculty members and students of the Department for providing information and valuable suggestions. Let's work together to make a positive impact in the reader community and beyond...

Editorial Team

EDITORS

Dr. Hannah Vijaykumar M.C.A., M.Phil., Ph.D.
Head & Associate Professor
Dean(Computational Studies)

Dr. A. Parameswari M.Sc., M.Phil., SET, Ph.D
Associate Professor

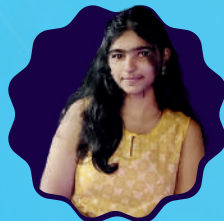**Mrs. M. Revathy Meenal M.C.A., M.Phil.**
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POOJITHHA.B

V.SWARNA PRIYA

PAVITHRA.P

NEHA.K.K

RAJAPRAVEENA.N

Fresher's Orientation Programme

Date : 07.07.2023

"The best way to predict the future is to create it. Embrace each challenge as an opportunity." — Peter Drucker

The event commenced with an engaging audio-visual presentation highlighting the Department's achievements and key features. Techbyte, the Students' Consortium, and other Departmental initiatives were introduced through the presentation. Head of the Department and faculty members warmly welcomed the freshers. Current students from both undergraduate and postgraduate programs shared their experiences and discussed the diverse opportunities within the Department.

Motivational Speech (Alumni Initiative)

Date : 10.07.2023

"Your work is going to fill a large part of your life, and the only way to be truly satisfied is to do what you believe is great work." — Steve Jobs

Five alumni from the 2005 Computer Science batch visited the college and spoke to the final year students. Ms. Divya Kamlesh motivated the students by sharing her coding journey, which still impacts her company. Ms. Saranya, another alumnae, overcame life's challenges to become a successful entrepreneur. Their generosity extended to donating a refrigerator for the Department.

ROADMAP TO BECOME A FULL STACK DEVELOPER

Date : 22.07.2023

"Everybody in this country should learn to program a computer because it teaches you how to think" – Steve Jobs

A webinar titled "Roadmap to Become a Full Stack Developer" on 22 July 2023 was organized by the Department. Mr. Y. Bharani Kumar, Senior Manager at Imarticus Learning in Chennai was the resource person. Mr. Bharani discussed career choices, the growing demand for Full Stack Developers, essential skills for the role, and insights into reputable companies. The event concluded with an interactive Q&A session.
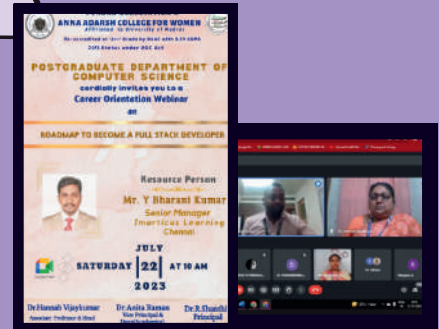
TECH EXPO'23

Date : 11.08.2023

"The technology revolution is the new status quo." - Geoffrey Moore

The Tech Expo'23, organized by the Postgraduate Department of Computer Science in collaboration with the Institution's Innovation Council (IIC), showcased innovative models related to the latest advancements in computer science and technology. Approximately 85 students participated, presenting their unique ideas—from cloud computing and networking to artificial intelligence and smart cities. The event emphasized innovation, encouraged knowledge sharing, and highlighted the dynamic role of computer science in today's technological landscape.

COMMUNITY SERVICE

Date : 21.08.2023

"The smallest act of kindness is worth more than the grandest intention." - Oscar Wilde

The final and pre final year students of the Department accompanied with the faculty members visited Aravind Foundation, a school for special children. They engaged Aravind Aalayam children through games, dance, and songs. The children showcased their craftwork and talents. The Department contributed Rs.20,000 for the Aravind Aalayam sports day celebration, AADUKALAM, held on 27 August 2023. Certificates were distributed to students who completed internships at Aravind Foundation centers. The visit left students, with the faculty and Aravind Aalayam children happy and cheerful.

Industry Expo Meet

Date: 25.08.2023

"You can have data without information, but you cannot have information without data." - Daniel Keys Moran.

Industrial Visit to Gateway Software Solutions: An insightful industrial visit was organized for II M.Sc. Computer Science students, accompanied by HOD Dr. Hannah Vijaykumar and faculty members. The visit provided practical exposure to the inner workings of a tech company and familiarize students with IT industry dynamics. Mr. Sabarinathan Muthu, Senior Technical Manager, warmly welcomed the group and highlighted the company's commitment to innovation and industry impact. Expert sessions covered topics like AWS, DevOps, React Native, and OS layers. Internship opportunities were also showcased, emphasizing hands-on experience. The visit served as a bridge between theoretical knowledge and practical insights, enhancing students' understanding of current technologies and career prospects in IT.

Investiture Ceremony Techbyte

Date: 11-09-2023

"Technology is just a tool. In terms of getting the kids working together and motivating them, the teacher is the most important." - Bill Gates

The Investiture Ceremony for Techbyte consortium the academic year 2023-2024 was held. Dr. Hannah Vijaykumar, Associate Professor and Head of the Department, welcomed the gathering. Dr. Anita Raman, Vice Principal, delivered a special address emphasizing empowerment and confidence. Ms. F.D. Initha, Joint Director General of Foreign Trade highlighted the importance of leadership and overcoming limitations. Chief Guest Dr. R. Uma Maheswari emphasized that leaders should set an example and prioritize service. Techbyte members received badges from the chief guests and faculty. The event included an oath-taking ceremony and the presentation of certificates to TECH EXPO'2023 winners and students involved in community service at Aravindalayam.

Boot Camp 2.0
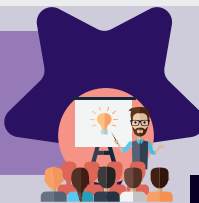
Date: 25.09.2023

"Success is not final, failure is not fatal: It is the courage to continue that counts." - Winston Churchill

Session 1-Data analytics using interactive dashboard
Session 2-Digital marketing

In the first session, Mr. Ramakrishnan P, an expert in Data Analytics conducted an interactive session. He delved into the vast opportunities within this field and specifically highlighted the effective use of Tableau, a powerful analytics and visualization tool. Additionally, he provided insights into leveraging Excel for creating impactful dashboards. Moving to the second session, Ms. Sukanya Balakumar, an authority on digital marketing captivated the audience. She emphasized the critical role of digital marketing in today's business landscape, substantiating her points with real-life examples. An intriguing analogy emerged: envision the letter "T," where the horizontal line represents programming courses (such as C, C++, Java, Python), and the vertical line symbolizes our knowledge and erudition. Both sessions left attendees with valuable takeaways.

WOMEN WELLNESS AWARENESS PROGRAMME

DATE: 25.09.2023

"Your body is a temple, but only if you treat it as one" - Astrid Alauda"

Dr. Roshni R led a Women's Wellness session, an empowering gathering that touched upon various facets of women's health. From mental well-being to hair fall, menstruation to ovulation, and even the complexities of PCO (Polycystic Ovary Syndrome) and menopause, no topic was left unexplored. The spotlight also fell on two critical cancers: breast and cervical. Dr. Roshni's insights were complemented by practical lifestyle tips, fostering overall well-being. In summary, this informative session played a pivotal role in promoting awareness and empowerment for women's health.


HIGHER EDUCATION AND COMPETITIVE EXAMS

DATE: 20.10.2023

"Education is the most powerful weapon which you can use to change the world." - Nelson Mandela

A career guidance program for final year undergraduate students, aiming to equip them for placements and further studies was conducted. The session included training for HR interview rounds and aptitude tests covering logical reasoning, verbal skills, and quantitative analysis. Additionally, it provided information on MBA admission tests such as CAT, MAT, TANCET, and XAT, detailing the syllabus and colleges accepting these exams. The speaker emphasized the importance of six months of dedicated preparation to succeed in these exams, highlighting that cracking them could lead to high paying job opportunities.
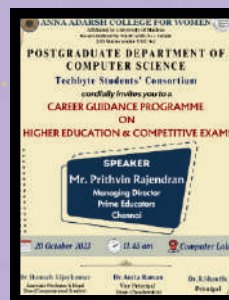
STUDENT INSIGHTS

Ms.S.Mahalakshmi
Assistant Professor
Dwaraka Doss Goverdhan College
Batch 2019-2024

I am delighted to share some insights about my alma mater, where I had the privilege of studying. My time at this institution was instrumental in shaping my academic and professional journey.Today I stand tall and proud as an Assistant professor at Dwaraka Doss Goverdhan Doss Vaishnav College with all the skills acquired from this department.I entered the gates of Anna Adarsh College for women under the wing of the Post graduate department of computer science in 2019.I was a girl with big dreams and aspirations and this department was the perfect place to make all these come true.Every moment I spent in my college was memorable.This department is the place which took me as a teenager and it transformed me into an responsible adult.One of the hallmarks of my student experience was the invaluable mentorship and support I received from professors who went above and beyond to nurture my intellectual curiosity and academic potential. My journey with the department doesn't stop with my undergraduation .Without a second thought I applied for my post graduation in this department.Beyond academics, the department provided me with ample opportunities for personal growth and development through the student forum TECHBYTE.After being a part of this forum for almost two years ,I was trusted with the President post with all my faculty members which instilled a great sense of responsibility and leadership.I always dreamt of holding a mic and standing before the crowd and that became a reality through the compering opportunities provided by the department. Name a skill and I know it. Designing,contentwriting,compering,presentations, poster designing,organising events,planning events ,all these are the opportunities provided by the department in enriching the students apart from curriculum.I want to extend my deepest thanks to the department of computer science for everything it has done for me. The education, experiences, and support I received have been pivotal in my journey.

Happy Day to everyone reading this right now. This read is going to be my whole feeling When I think about my days at Anna Adarsh College For Women. There are a lot of emotions In it, so be my guest to read it till the end.I was a girl who studied in the same school for 14 years, stepping into a new place where She has to make friends from the start, collaborate with seniors and build a good reputation Among professors. Yes, I was scared as hell on my first day. But I didn't know Day 1 would Change all my perspectives upside down. I was given the opportunity to introduce myself With my peers, and I loved their intros as well. And by the end of it, my class incharge Decided to make me the representative of the class. Leadership wasn't new to me, but the People were!! It took me some time and some effort to understand everyone, but guess who mastered it in A few weeks? Yup that's me. Not just peers, I made amazing bonds with seniors and my Professors as well. I won't bore you by saying stories from my experiences but let me tell you How this place has moulded me."OPPORTUNITIES, ENDLESS OPPORTUNITIES" – I was awarded with this gift and I used It to my maximum potential. Dance? Yes, Singing? Yes, Sports? Yes, Leadership? Yes, Speeches? Yes….I was there in everything, and I cannot deny the fact that I didn't win at all But earned so many memories for sure.Was it my luck to earn such memories in life? I believe so! Always grateful and happy for how AAC made me to who I'm right now.

Ms.A.V.B Rakshitha
Freelance Copywriter
Batch 2019-2022

GUEST GLIMPSE

Dr.M V Srinath
Placement Director/Professor
STET College, Mannargudi

As a resource person for the International Faculty Development Program (FDP) at Anna Adarsh College for Women, I've had the privilege of experiencing the Computer Science Department's exceptional caliber firsthand. I'm thoroughly impressed by their cutting-edge approach, which combines a comprehensive curriculum, expert faculty, and state-of-the-art facilities to create a truly immersive learning environment. The emphasis on hands-on learning, industry-relevant projects, and innovative research is particularly noteworthy, and the faculty's passion for teaching and mentoring is palpable. The students' enthusiasm and talent are a testament to the department's success, and their strong connections with the tech industry ensure that graduates are well-prepared for a rapidly evolving digital landscape. As a hub for excellence and innovation, the Computer Science Department is empowering the next generation of women in tech to reach new heights, and I'm honored to be a part of this journey.

Mr.P.Ramakrishnan
Head Operations
Equitas Gurukul Group of Schools, Chennai

The Computer Science Department at Anna Adarsh College for Women under the leadership of Madam Dr. Hannah Vijaykumar is at the forefront of innovation and technological advancement. The Department emphasizes the importance of equipping students with both theoretical knowledge and practical skills in areas such as artificial intelligence, cybersecurity, data analytics, and software development. Under the guidance of experienced faculty, the Department fosters a dynamic learning environment that encourages students to explore and research the frontiers of Computer Science. The Department is committed to preparing students for future endeavors by providing them with the necessary tools and knowledge to excel in the ever-evolving field of technology. The Department also organizes various student-centric programs and workshops to enhance learning and keep students updated with the latest industry trends. This holistic approach ensures that graduates are well-prepared to meet the challenges of the modern technological landscape. I thank the Principal, Vice-Principal and the Department of Computer Science for giving me the opportunity to serve as a resource for the workshop on Google Looker Studio and Power BI which provided valuable insights into data analytics applications. Wishing the Department many more achievements in the coming years.

Faculty's Research & Expertise Achievements

NAME OF THE FACULTY	CATEGORY	DATE	NAME OF THE ORGANIZER	TITLE
Dr.HANNAH VIJAYKUMAR	Publication	29/12/2023	UGC-CARE Journal Publication	Techniques to Prevent Attacks caused through Web Scraping - A Review Approach
Dr.A. LAKSHMI	Publication	08/06/2023	7th Conference on Intelligent Computing and Control Systems, IEEE, Vaigai College of Engineering, Madurai, Tamilnadu	Heart disease prediction model using genetic algorithm and support vector Machine
	Paper Presented	23/12/2023	12th International conference on SMART-2023, College of Computing Sciences & IT, Teerthanker, Mahaveer University, UP	Heart Disease Prediction Using Enhanced Whale Optimization Algorithm Based Feature Selection With Machine Learning Techniques
Ms. A.P. THARANI	Paper Presented	30/08/2023	2nd International Conference on Exploring Colossal Technological Advances of the 21st Century in Social science, Education, Engineering and Technology at Manila, Philipines	Enhanced Community Identification Based On Spider Ant Colony Relative Feature Mining Algorithm Using Dense Net Convolutional Neural Network
Dr. A.PARAMESWARI	Resource Person	27/10/2023	Dept of Computer Science, Dr.M.G.R Educational and Research Institute	Navigating the IoT Frontier: Pioneering Careers in Connected Technology
Ms. M. REVATHY MEENAL	Paper Presented	15/12/2023	Ethiraj College for Women	Bagging Ensemble Mining Technique with Deep Belief Network (DBN) algorithm-based Heart Disease Prediction
Dr. K. MAHESWARI	Publication	29/12/2023	UGC-CARE Journal Publication	Cloud Based Anomaly Detection with RXGB Algorithm
Dr. P. PAKUTHARIVU	Paper Presented	30/11/2023	International Journal of Intelligent systems and Applications in Engineering	Enhancing Dark Web Classification: A Dynamic Crawler and Robust Classification Framework
	Paper Presented	21/12/2023	Journal of Advanced Research in Applied Sciences and Engineering Technology	Improving Plant Disease Detection Using Super-Resolution Generative Adversarial Networks and Enhanced Dataset Diversity
	Resource Person	28/08/2023	Periyar Maniammai Institute of Science and Technology, Thanjavur	Image Processing and its Applications
Ms. K. UNNAMALAI	Book Published	23/11/2023	Taylor and Francis Journal	"Published a Chapter in book Data-Driven Technologies and Artificial Intelligence in Supply Chain" On Topic A human-centered approach to artificial intelligence in the supply chain
Ms. K. SUMATHI	Paper Presented	04/12/2023	Sri Siddhartha Institute of Technology, Tumkuru in association with IEEE Bangalore Section	Classic Filter Identification in Gabor Filter Bank with Quality Metrics to identify Defects on Fruit Peel
Ms. S. RADHA	Awards/Prize Received	05/10/2023	Wisdom Educare Academy	Best Assistant Professor Award
	Paper Publication	05/08/2023	UGC CARE Approved, Group 1- Journal of the Oriental Institute	Study on Traffic Aware Communication in Cloud Environment
	Paper Publication	14/10/2023	Springer - SN - Computer Science	Deterministic Hash and Linear Congruential Blowfish Extreme Learning for User Authentication in Cloud Computing
Ms. S. RANJANA	Participated in the "Governor's Think to Dare" event at Rajbhavan	23/09/2023	Interaction series	During the event, she presented the book "Office Automation," co-authored by Dr. Hannah Vijaykumar and herself, to the honourable Governor of Tamil Nadu Thiru. R. N. Ravi, as a gesture of esteem and appreciation.
	Resource Person	28/07/2023	St.Anne's Arts & Science College	Demystifying Artificial Intelligence
Dr. D. SASIREKHA	Paper Presented	30/11/2023	International Journal of Intelligent systems and Applications in Engineering	Enhancing Dark Web Classification: A Dynamic Crawler and Robust Classification Framework
	Paper Presented	21/12/2023	Journal of Advanced Research in Applied Sciences and Engineering Technology	Improving Plant Disease Detection Using Super-Resolution Generative Adversarial Networks and Enhanced Dataset Diversity
Ms. N.MENAKA	Paper Publication	05/10/2023	Elsevier	A hybrid convolutional neural network with long short-term memory (HCNN-LSTM) model based Edge System Recommendation(ESR) for cloud service providers

SNAPSHOT

Faculty Achievements & Contributions
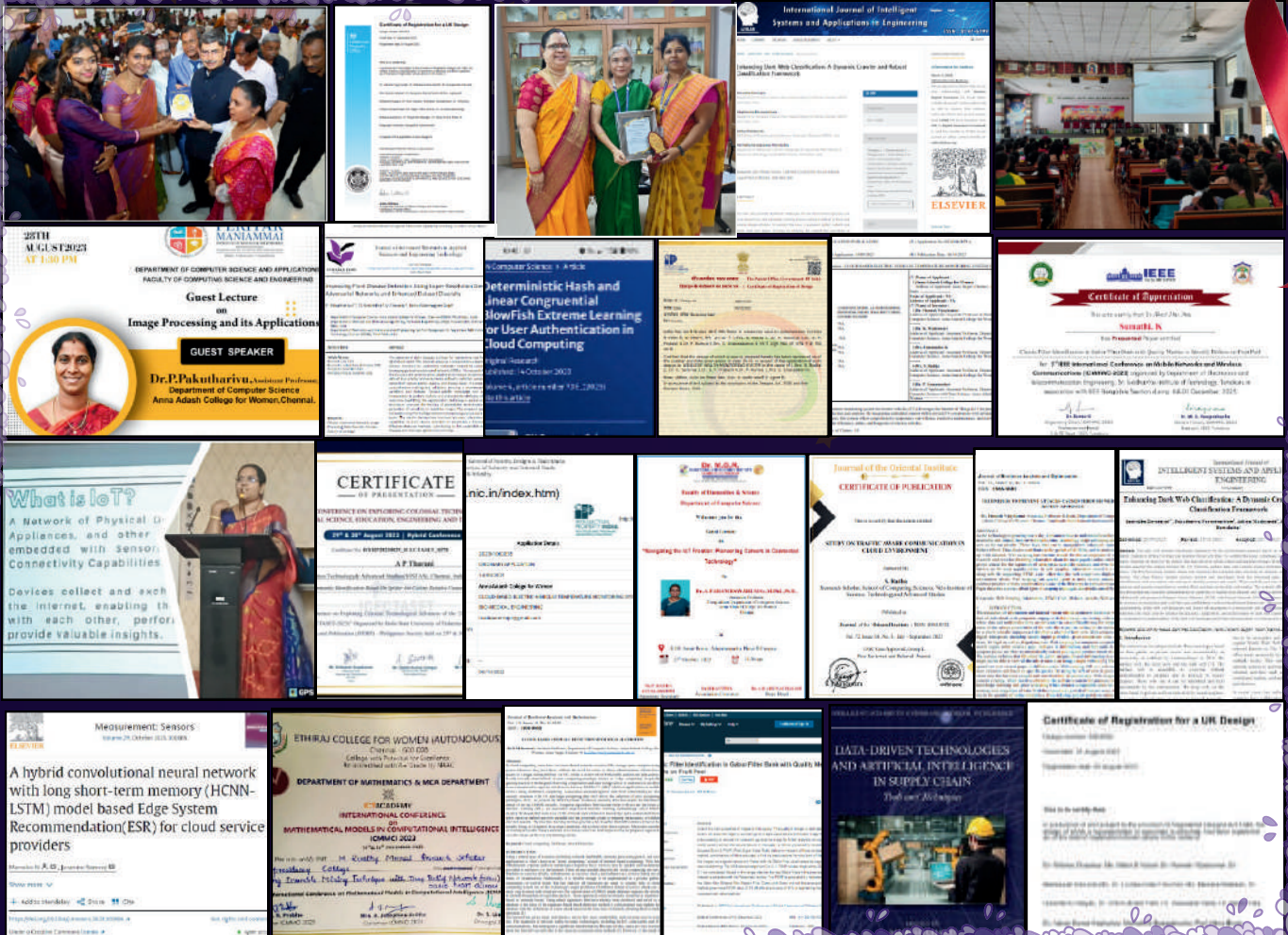
Moments of Pride

**Award of Appreciation for scoring A++ Grade by NAAC
in the 3rd Cycle by the Management**

FACULTY'S PATENTED HIGHLIGHTS

| NAME OF THE FACULTY	DATE	NAME OF THE ORGANIZER	TITLE
Dr.HANNAH VIJAYKUMAR	31/08/2023	International Patent 1	AI- Enabled Aquaculture Fish Disease Prediction Device
	01/09/2023	International Patent 2	Fish Disease Prediction Device in Aqualculture
	14/09/2023	Institutional Patent	Cloud based Electric Vehicles Temperature Monitoring System using IOT
Dr. K. MAHESWARI	31/08/2023	International Patent 1	AI- Enabled Aquaculture Fish Disease Prediction Device
	01/09/2023	International Patent 2	Fish Disease Prediction Device in Aqualculture
	14/09/2023	Institutional Patent	Cloud based Electric Vehicles Temperature Monitoring System using IOT
Ms. K. UNNAMALAI	14/09/2023	Institutional Patent	Cloud based Electric Vehicles Temperature Monitoring System using IOT
Ms. S. RADHA	5/10/2023	Indian Patent	Wireless Health Monitoring System
	14/09/2023	Institutional Patent	Cloud based Electric Vehicles Temperature Monitoring System using IOT
Ms. N.MENAKA	31/08/2023	International Patent 1	AI- Enabled Aquaculture Fish Disease Prediction Device
	01/09/2023	International Patent 2	Fish Disease Prediction Device in Aqualculture
Dr .P.GUNASUNDARI	31/08/2023	International Patent 1	AI- Enabled Aquaculture Fish Disease Prediction Device
	01/09/2023	International Patent 2	Fish Disease Prediction Device in Aqualculture
	14/09/2023	Institutional Patent	Cloud based Electric Vehicles Temperature Monitoring System using IOT

STUDENT ACHIEVEMENTS

DATE	STUDENT NAME	DEPARTMENT / SHIFT 1	EVENT NAME	AWARDS / PLACE	ORGANISATION / INSTITUTION
15/08/2023	KHUSHI SHARMA	III B-BSC Computer Science	ATHELETICS SPORTS CHAMPIONSHIP CHENNAI DISTRICT EVENT	1st Place- 1500mts 3rd Place- 800mts	CHENNAI DISTRICT ATHELATICS ASSOCIATION
17/08/2023	YUVASREE.M PRIYA.C INDHUMATHY.D SUBALAKSHMI.G	II-MSC Computer Science	OLAP 2023-24 TECH AUCTION	Participated	MOP VAISHNAV COLLEGE
22/08/2023	MADHUMITHA .G	II A-BSC Computer Science	CHAINIKA 2023 - 24 GLASS PAINTING	2nd Place	CHEVALIER T.THOMAS ELIZABETH COLLEGE FOR WOMEN
28/08/2023	AKSHAYA.M	I A-BSC Computer Science	TALENT SHOW () CHAINIKA 2023-24	3rd Place	CHEVALIER T.THOMAS ELIZABETH COLLEGE FOR WOMEN
20/09/2023	S.MAHA LAKSHMI DIVYA.D MARY JOSLIN MONICA .M	II-MSC Computer Science	INTERNATIONAL CONFERENCE ICNCAJ-2023	Paper Presentation	DG VAISHNAV COLLEGE
20/09/2023	REENAAD.A	I B-BSC Computer Science	COSPLAY	Participated	ANNA ADARSH COLLEGE FOR WOMEN
20/09/2023	KAVIYA .S	I A-BSC Computer Science	PHOTOGRAPHY	Participated	ANNA ADARSH COLLEGE FOR WOMEN
20/09/2023	MADHUMITHA S	I A-BSC Computer Science	SKETCHING	Participated	ANNA ADARSH COLLEGE FOR WOMEN
20/09/2023	VARSHA K.P MONISHA P	I B-BSC Computer Science	SET CREATION	III - PRIZE	ANNA ADARSH COLLEGE FOR WOMEN
22/09/2023	HARIPRIYA.R	II-BSC Computer Science with Data Science	PANTOMIME (MIME)	II -PRIZE	ANNA ADARSH COLLEGE FOR WOMEN
22/09/2023	NIVETHA.G	II-BSC Computer Science with Data Science	PANTOMIME (MIME)	II - PRIZE	ANNA ADARSH COLLEGE FOR WOMEN
23/09/2023	MADHIHA.S	II-MSC Computer Science	Impact of AI in cyber security	Paper Presentation	INSIGHT TECH RESEARCH FOUNDATION
03/10/2023	MADHUMITHA.G MIRRAA.S	III A-BSC Computer Science	COLLAGE MAKING	1st Place	SRI KANYAKA PARAMESWARI COLLEGE FOR WOMEN
16/10/2023	J. LOKESHWARI S.M. MADHUMITHA S. KAAVYA	III A-BSC Computer Science	CONMERZIUM	II -PRIZE	SRM INSITUTE OF SCIENCE AND TECHNOLOGY - RAMAPURAM CAMPUS
16/10/2023	DHANUSHREE V.R JOSHIKA.M JAISHREE.V	III A-BSC Computer Science	CONMERZIUM	Participated	SRM INSITUTE OF SCIENCE AND TECHNOLOGY - RAMAPURAM CAMPUS

Tech Snippets
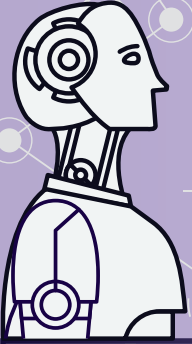
↻ **Chatbots Will Be Indistinguishable From Humans by 2029.** If you think you can have a meaningful conversation with a human, you'll be able to have a meaningful conversation with an AI in 2029.

↻ **IIT Madras** has established a 5G testbed to foster innovation and early adoption of 5G technology in India.

↻ **IIT Bombay** has launched a cutting-edge quantum computing lab dedicated to advancing quantum algorithms, cryptography, and machine learning.

↻ **Model parallelism** distributes different parts of a neural network across multiple computing devices to manage the memory and computational demands of very large models.

↻ **India has the second biggest number of software developers** in the world almost 5 million software engineers

↻ **Android versions are named after desserts and sweets.**
Each major release of the Android operating system is associated with a sweet or dessert-themed name, such as Cupcake, Donut, KitKat, and Oreo. Check what is yours!!!
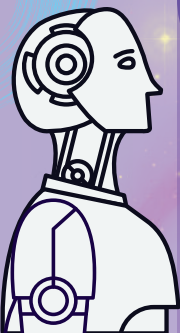
↻ **Dictation.io** is a web based voice recognition and speech-to-text platform that allows users to convert spoken words into written tests.

↻ **Open Library** is an Online platform that offers free access to a wide range of books, including classic literature and contemporary titles.
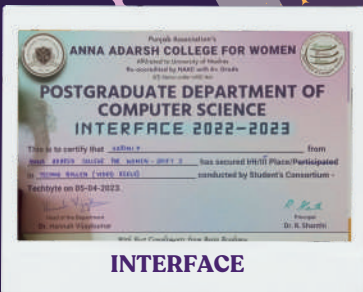
PRIDE OF THE DEPARTMENT

HARINI.P

BSC COMPUTER SCIENCE BATCH [2021-2024]

Achievements & Accolades

SPORTS

INTERFACE

INTRAFACE

SOCIAL MEDIA SECRETARY

Designed Posters, Invites, PPT, Standees for all cultural events conducted by Student Council.

Created AVs for all the Judges and Chief guests who attended the event.

Provided technical support during the events

SERVICE TO COLLEGE MANAGEMENT

Created AVs, Posters and Invites for Lohri Mela conducted by Punjab Association.

Designed AVs, Posters and Invites for Punjabi Mela conducted by Punjab Association.

TECHBYTE

Team Leader of Technical Team

ADITYA-L1 AND AI

A New Dawn in Solar Exploration

AI TECHNOLOGY ENHANCES THIS MISSION IN VARIOUS WAYS

India's Aditya-L1, A mission by the Indian Space Research Organisation (ISRO), is dedicated to studying the Sun's corona and its influence on space weather.AI integration in Aditya-L1 boosts the mission's efficiency, autonomy, and scientific output, contributing significantly to our understanding of the Sun and space weather.

Data Analysis:
AI predicts solar phenomena like flares and CMEs and processes vast amounts of data in real-time.

Autonomous Operations
AI aids in spacecraft navigation, fault detection, and autonomous corrections.

Scientific Research:
AI identifies patterns in solar observations and classifies solar events, aiding new discoveries.

Communication:
AI optimizes data compression and error correction for efficient data transmission.

Instrument Performance
AI continuously calibrates instruments and determines optimal data collection times.

LAUNCH DATE: 2 Sept,2023

TIME: 4 months

DISTANCE: 1.5 mn,km (from earth)

COST 378.53 cr

PAYLOAD: 7 (VELC, SUIT, SoLEXS,HEL1OS, ASPEX, PAPA,Digitalmagnetometers)

Paying Tribute to ISRO and India's Visionary Scientists for Propelling Aditya L1,a Historic Feat in Indian Space Exploration ,with Gratitude and Esteem.

Congratulations

deptofcompsci@annaadarsh.edu.in