

FR. CONCEICAO RODRIGUES INSTITUTE OF TECHNOLOGY

# ZEPHYR 2023

---

By Department of Computer Engineering

---



# TABLE OF CONTENTS



01

DEPARTMENT  
DETAILS

02

FACUTLY  
DETAILS

03

STUDENT ACTIVITIES

04

ARTICLES

05

CREATIVE SECTION

06

ALUMNI SECTION





**DR. M. KIRUTHIKA**

**HEAD OF THE DEPARTMENT**

**DEPARTMENT OF COMPUTER ENGINEERING**

“Creativity is the crucial variable in turning knowledge into value.”

~DR. M. KIRUTHIKA

In this regard, the Department magazine offers an ideal forum for students to think, reflect, create and innovate in a multitude of languages.

The magazine is an excellent platform for the budding engineers to bring out their latent abilities and is indeed a precious document that preserves their invaluable piece of work. It is a significant milestone in their creative journeys and inspires them to aspire higher.

The 2023-2024 edition of Zephyr helps to showcase the activities that are happening in the department. It provides an avenue to showcase the merits and academic achievements of the students. In addition to the numerous achievements of the department, this is yet another milestone in the co-curricular activities.

I hope this magazine aims to inspire and nurture upcoming engineers to bring a revolution in this ever-evolving world of technology.

It captures the zeitgeist of the current technological advancements and provides the platform to our students for exhibiting their true talent and creativity through various genres of writings. It also helps in building up teamwork which is very much needed today in the world of competition.

I congratulate and thank all the students and staff coordinators who have made untiring efforts to bring out this magazine. Reading this magazine would definitely be an inspiration and motivation for all students and staff to contribute even more to the forthcoming issues. I hope that everyone would continue to give their full efforts to keep the momentum and continue to enhance the standards of the magazine.

**2023 ISSUE:**

# **DEPARTMENT DETAILS**



BY DEPARTMENT OF COMPUTER ENGINEERING



# DEPARTMENT DETAILS



The four-year Computer Engineering Degree Course was started in the year 1994 and it was accredited for three years from 2006, reaccredited for two years w.e.f 2012 and, reaccredited again for two years w.e.f 2019. B.E Computer engineering course introduces the student to the world of programming starting with the basics and slowly leading towards the high-end programming technologies along with basic, core and specialized (electives) subjects during the duration of four years.

The Computer Engineering Department has domain specific, well-equipped labs with Desktops having latest specifications and software. Besides this, Computer Department Association – ACESS (Agnel Computer Engineering Students Symposium) plays a major role in conducting various workshops and short-term Training courses on Machine Learning, Storage Area Network (SAN), Web Designing, Open-Source Technologies, Python, Robotics, Advanced Mobile Technology, Data Science etc. to keep the students at par with the requirements of the industry and to make them successful professionals. The collaboration of the department with industries like EC-Council, Myra Technologies has helped in conducting training programs in the field of Security, Machine Learning which also gives exposure to students about latest technologies and tools used in the industry. Apart from this, students are also encouraged to become members of professional societies like CSI, IEEE etc., to enrol for various internship programs and to develop their programming skills thru Programmer's Club

Department has well qualified faculty members who are specialized in various areas. Students implement real time projects which are mostly research oriented guided by faculty in the final year as part of their curriculum which trains them to be highly competent computer software professionals needed by industry. As part of final year projects, various groups have undertaken projects from reputed industries and research centres like Persistent, Reliance, BARC and TIFR. TIFR projects taken up by the department have been successfully completed and deployed at the Research Institute. These projects have also received good appreciation. During the curriculum, the department provides a platform for students to present/publish technical papers in National and International Conferences and Journals.



# DEPARTMENT VISION & MISSION



## **VISION:**

To contribute significantly towards industry and research oriented technical education leading to self-sustainable professionals and responsible citizens.

## **MISSION:**

To provide quality and application oriented education to meet the industry requirements. To prepare technically competent, ethically and socially committed professionals with good leadership qualities. To facilitate an opportunity to interact with prominent institutes, alumni and industries to understand the emerging trends in computer technology.

## **PROGRAM EDUCATIONAL OBJECTIVES:**

Graduates will be able to: Excel in professional career and higher education in the thrust area of Computer Engineering. Develop software products by adapting the trends in technology to solve real life problems. Exhibit ethical practices, professional conduct and leadership qualities.

## **PROGRAM SPECIFIC OUTCOMES:**

At the end of the Bachelor of Computer Engineering Program, graduates will be to: To comprehend, analyze and develop solutions in the areas of Web Technologies, Data Science, Networking and System Security. To inculcate self-learning and research attitude for excelling in Software Development.



---

# PROGRAM OUTCOMES

## **Engineering Graduates will be able to:**

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.
- **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.
- **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.
- **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.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- **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.
- **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.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **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.
- **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.
- **Life-long learning:** Recognise the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**2023 ISSUE:**

# **FACULTY DETAILS**



BY DEPARTMENT OF COMPUTER ENGINEERING



## FACULTY

---



**DR. LATA RAGHA**

PHD

**PROFESSOR & DEAN STUDENTS  
AFFAIRS AND ALUMNI**



**DR. M.KIRUTHIKA**

PHD

**ASSOCIATE PROFESSOR AND  
HEAD OF DEPARTMENT**



**DR. JYOTI MORE**

PHD

**ASSOCIATE PROFESSOR  
AND ASSISTANT HEAD**



**DR. CHHAYA PAWAR**

PHD

**ASSOCIATE PROFESSOR AND  
ASSOCIATE DEAN ACADEMICS**



**MR. AMROZ SIDDIQUI**

M.TECH

**ASSISTANT PROFESSOR**



**DR. SMITA DANGE**

PHD

**ASSISTANT PROFESSOR**



**MS. RAKHI KALANTRI**

M.E (COMP)

**ASSISTANT PROFESSOR**



**MS. SHAGUFTA RAJGURU**

M.E (COMP)

**ASSISTANT PROFESSOR**



**MS. KAVITA SHELKE**

M.E (COMP)

**ASSISTANT PROFESSOR**

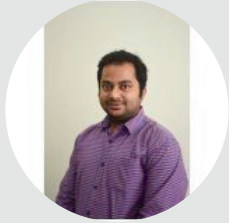


**MS. DAKSHYANI**

M.E (COMP)

**ASSISTANT PROFESSOR**





**MR. MRITUNJAY OJHA**

M.E (I.T.)

**ASSISTANT PROFESSOR**



**MR. RAHUL DIVAKAR JADHAV**

M.E (COMP)

**ASSISTANT PROFESSOR**



**MRS. SMITA RUKHANDE**

ME

**ASSISTANT PROFESSOR**



**MRS CHETANA BADGUJAR**

ME

**ASSISTANT PROFESSOR**



**PRIYAMVADA SINGH CHAUHAN**

M.TECH.

**ASSISTANT PROFESSOR**



**DR. PRAVIN RAHATE**

PH.D.

**ASSISTANT PROFESSOR**



**SNEHAL NIKALJE**

M.E.

**ASSISTANT PROFESSOR**



**MRS. PRACHI VERMA**

MTECH

**ASSISTANT PROFESSOR**



**MRS. NUPUR GAIKWAD**

M.E. (COMPUTER)

**ASSISTANT PROFESSOR**



**MRS. BHARATI KHATAWATE**

M.E. (ELECTRONICS)

**ASSISTANT PROFESSOR**



**BHAKTI AHER**

M.E. (COMPUTER)

**ASSISTANT PROFESSOR**



**VIDYA ROSHAN KOTTARI**

PH.D. (PURSUING)

**ASSISTANT PROFESSOR**



**UJALA PATIL**

M.E.

**ASSISTANT PROFESSOR**



**MR. CHAITANYA MAHAMUNI**

M.E. (EXTC)

**ASSISTANT PROFESSOR**



**ROHINI DESHPANDE**

M.E. (EXTC)

**ASSISTANT PROFESSOR**



# FACULTY RESEARCH PAPER PUBLICATION 2023-24

Sr. No.	Name of the Faculty	Title of the paper	Details of Publication	Indexing
2023-24				
1	Dr. Lata Ragha	High-Resolution Image-to-Image Translation for Aesthetic Enhancements using Generative Adversarial Network	2nd International Conference on Disruptive Technologies (ICDT), GL Bajaj Institute of Technology and Management, Greater Noida, 15 – 16 March, 2024, pp. 629-635	IEEE Xplore
		Securing Logistic Regression Model from Data Poisoning Attack using AES and RSA Encryption Techniques	2nd International Conference on Augmented Intelligence and Sustainable Systems (ICAISS-2023), CARE College of Engineering, Trichy, India, 23-25 August 2023.	IEEE Xplore
		Optimizing Pesticide Decisions with Deep Transfer Learning by Recognizing Crop Pest	IEEE International Conference on new Frontiers in Communication, Automation, Management and Security (ICCAMS), Presidency University, Bangalore, October 27-28, 2023	IEEE Xplore
		Signature Authentication: Verification using Siamese Network”	6th IEEE Conference on Advances in Science and Technology, 8-9 December 2023, KJSIT, Sion.	
2	Dr. Kiruthika M	Analysis of DDoS Attacks using Datamining	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7, 2023.	IEEE Xplore
3	Dr. Jyoti M.	Implementation of Number Transcription Tool	6th IEEE-International Conference on Advances in Science and Technology (ICAST), ), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7, 2023.	IEEE Xplore
		Gesture Based Computer Control	6th IEEE-International Conference on Advances in Science and Technology (ICAST), ), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7, 2023.	IEEE Xplore
		Visual Sentinel: Data Analytics for Missing Subject Identification	IEEE Pune Section International Conference, (Punecon-23), Pune, Dec 2023	IEEE Xplore

4	Mr. Amroz S.	Microservices Framework for Remote Management of IoT based Environmental Monitoring System	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.	IEEE Xplore
5	Mrs. Rakhi K.	E-Learning Platform for Medical Students	National Bioengineering Conference 2023 (NBC), Nov 2023.	Springer
		A Study on Cyberbullying Detection Techniques in Online Social Networks	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.	IEEE Xplore
		Transfer Learning-Based Recommendation System	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.	IEEE Xplore
		IoT Attacks, Security Concerns and Reinforcement Learning Solutions: Comprehensive Survey	First International Conference on “Emerging Research in Computing, Information, Communication, Artificial Intelligence and Machine Learning” ERCICAM 23 and 24, February 2024 , Nitte Meenakshi Institute of Technology, Yelahanka, Bangalore-642024	Springer
6	Ms. Shagufta R	E-Learning Platform for Medical Students	National Bioengineering Conference 2023 (NBC), Nov 2023.	Springer
		A Study on Cyberbullying Detection Techniques in Online Social Networks	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.	IEEE Xplore
		Transfer Learning-Based Recommendation System	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.	IEEE Xplore
7	Mrs. Kavita Shelke	Blockchain Based Property Deeds Repository System	14th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-6, doi: 10.1109/ICCCNT56998.2023.10307224.	IEEE Xplore
		Optimization with Blockchain based Secure Authentication and Collaborative Data Sharing Model in Cloud	14th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-6, doi: 10.1109/ICCCNT56998.2023.10307224.	IEEE Xplore
		A Comparative Study of Symbiotic Organism Search and Glow-worm Swarm Optimization	International Conference on Computational Intelligence, Networks and Security (ICCINS-2023) 22nd and 23rd December, 2023(Accepted)	IEEE Xplore
		A Comprehensive Survey of Consensus Protocols, Challenges, and Attacks of Blockchain Network	Fourth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), Bhilai, India, 2024, pp. 1-6, doi: 10.1109/ICAECT60202.2024.10469511.	IEEE Xplore

8	Mrs.Dakshyani G.	Website for NGOs -Beyond Kind	8th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2023) , Jaipur, India, 8 - 9 December 2023.	Springer
9	Mr. Mritunjay Ojha	Verifier: Marksheet verification using blockchain	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.	IEEE Xplore
		Modeling for Identifying Emerging Trends on Instagram using Latent Dirichlet Allocation and Non-Negative Matrix Factorization	Hinweis Second International Conference on Advanced in Information, Telecommunication and Computing (AITC), Hybrid Mode; April 27-28, 2024	
10	Mr. Rahul Jadhav	Micro services Framework for Remote Management of IoT based Environmental Monitoring System	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.	IEEE Xplore
11	Mrs. Smith Rukhande	Website for NGOs -Beyond Kind	8th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2023) , Jaipur, India, 8 - 9 December 2023.	Springer
12	Mrs. Snehal Nikalje	Revolutionizing Restaurant Service: Harnessing Tablets for Seamless and Touch-free Order Placement	IEEE Fourth International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE), Dec 2023.	IEEE Xplore
13	Chaitanya Vijaykumar Mahamuni	Exploring IoT-Applications: A Survey of Recent Progress, Challenges, and Impact of AI, Blockchain, and Disruptive Technologies	7th International Conference on Electronics, Communication and Aerospace Technology (ICECA 2023), November 2023.	IEEE Xplore
		Modeling for Identifying Emerging Trends on Instagram using Latent Dirichlet Allocation and Non-Negative Matrix Factorization	10th International Conference on Advanced Computing and Communication Systems (ICACCS),2024(Accepted).	IEEE Xplore
		Smart Plant Monitoring: An Integrated IoT System for Sustainable Precision Agriculture	International Conference Art, Design & Technology School of Computing ,25 to 27th April, 2024	IEEE Xplore



# FACULTY RESEARCH PAPER PUBLICATION 2022-23

Sr. No.	Name of the Faculty	Title of the paper	Details of Publication	Indexing
2022-23				
1	Dr. Lata Ragha	Global Benchmarking System for Business school students	International Conference on Social Science, Arts, Business and Education (ICSSABE-23), Institute for Scientific and Engineering Research (ISER), Lucknow India, 30 April 2023	
2	Dr. Kiruthika M	Mobile Application for Monitoring the Performance of Transmission Line	8th International Conference on Nanoelectronics, Computational Intelligence & Communication Systems (NCCS-2022), INDIAN SOCIETY FOR VLSI EDUCATION (ISVE,) ARTTC, Hazaribagh Road, Ranchi, 17-18 Dec-2022	Springer Notes (Scopus Indexed)
		A Recommendation System for Decentralized Autonomous Organization	OPJU International Technology Conference On Emerging Technologies for Sustainable Development (OTCON 2.0), OP Jindal Institute of Technology, Raigarh, Chhattisgarh, India, 8-10 Feb, 2023	IEEE Xplore(Scopus Indexed)
3	Dr. Chhaya Pawar	Malware Detection & Classification using Deep Learning	1st International Conference on Recent Trends in Multidisciplinary Research and Innovation (ICRMIR-2023), Lokmanya Tilak College of Engineering, Navi-Mumbai, India, 17-18 March, 2023, pp61-64	*
		Analysis of Pain Intensity Estimation using Deep learning from Facial Expressions	1st International Conference on Recent Trends in Multidisciplinary Research and Innovation (ICRMIR-2023), Lokmanya Tilak College of Engineering, Navi-Mumbai, India, 17-18 March, 2023, pp115-121	*
4	Mr. Amroz S.	A Novel Approach to Pointer Analysis	OPJU International Technology Conference On Emerging Technologies for Sustainable Development (OTCON 2.0), OP Jindal Institute of Technology, Raigarh, Chhattisgarh, India, 8-10 Feb, 2023	IEEE Xplore(Scopus Indexed)
		Comparative Study of Andersen's and Steensgaard's Approaches of Pointer Analysis	Hinweis Second International Conference on Advances in Software Engineering and Information Technology- ASIT (Hybrid Mode), Mumbai, India, 16-17 June 2023.	

5	Mrs. Rakhi K.	M-Lens An IoT Based Deep Learning Device	7th International Conference on Internet of Things and Connected Technologies , Indian Institute of Technology, Patna, 29-30 September 2022.	Scopus Indexed
		Stress Reliving Application for Personal Wellbeing	7th International Conference on Internet of Things and Connected Technologies , Indian Institute of Technology, Patna, 29-30 September 2022.	Scopus Indexed
		Venture Analyzer	7th International Conference on Internet of Things and Connected Technologies , Indian Institute of Technology, Patna, 29-30 September 2022.	Scopus Indexed
		Electronic Matadan: Blockchain Based E-Voting System	5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2023), Fr. C. Rodrigues Institute of Technology, Navi Mumbai, India,20-21 Jan,2023	IEEE Xplore
		OCR-Based Text Information Retrieval and Translation From Pictures and Videos	4th International Conference on Multidisciplinary Innovation in Academic Research (ICMIAR 2023), Institute For Engineering Research and Publication, Chennai, India,17-18 March,2023, pp33.	
		A Systematic Study On Cybersecurity Technologies Issues and Its Challenges	International Conference on Intelligent Computing and Networking( IC-ICN 2023) , 24th -25th February 2023	
6	Ms. Shagufta R	M-Lens An IoT Based Deep Learning Device	7th International Conference on Internet of Things and Connected Technologies , Indian Institute of Technology, Patna, 29-30 September 2022.	Scopus Indexed
		Stress Reliving Application for Personal Wellbeing	7th International Conference on Internet of Things and Connected Technologies , Indian Institute of Technology, Patna, 29-30 September 2022.	Scopus Indexed
		Electronic Matadan: Blockchain Based E-Voting System	5th International Conference on Nascent Technologies in Engineering (ICNTE 2023), Fr. C. Rodrigues Institute of Technology, Navi-Mumbai, India,20-21 Jan,2023	IEEE Xplore
7	Mrs. Kavita Shelke	A Sliding Window Architecture for the Internet of Things	5th IEEE- International Conference on Advances in Science and Technology, K.J. Somaiya Institute of Engineering and Information Technology ( KJSIEIT), Mumbai, 2-3 December,2022	IEEE Xplore(Scopus Indexed)

8	Mrs.Dakshyani G.	A Sliding Window Architecture for the Internet of Things	5th IEEE- International Conference on Advances in Science and Technology, K.J. Somaiya Institute of Engineering and Information Technology ( KJSIEIT), Mumbai, 2-3 December,2022	IEEE Xplore(Scopus Indexed)
		Comparative Study of Andersen's and Steensgaard's Approaches of Pointer Analysis	Hinweis Second International Conference on Advances in Software Engineering and Information Technology- ASIT (Hybrid Mode),Mumbai, India, 16-17 June 2023.	
9	Mr. Mritunjay Ojha	Comparative Study of Andersen's and Steensgaard's Approaches of Pointer Analysis	Hinweis Second International Conference on Advances in Software Engineering and Information Technology- ASIT (Hybrid Mode),Mumbai, India, 16-17 June 2023.	
10	Mr. Rahul Jadhav	Building a modern microservices ecosystem for environmental monitoring using IOT sensors	5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2023), Fr. C. Rodrigues Institute of Technology, Navi Mumbai, India,20-21 Jan,2023	IEEE Xplore
		Barricading System – System Communication Using gRPC and Protocol Buffers	5th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2023), Fr. C. Rodrigues Institute of Technology, Navi Mumbai, India,20-21 Jan,2023	IEEE Xplore
11	Mrs. Chetana Badgujar	SumMeet - ML Based Minutes Of Meeting Generation Tool	1st International Conference on Recent Trends in Multidisciplinary Research and Innovation (ICRMIR-2023), Lokmanya Tilak College of Engineering, India, 17-18 March, 2023, pp80-87	



# FACULTY RESEARCH PAPER PUBLICATION 2021-22

Sr. No.	Name of the Faculty	Title of the paper	Details of Publication	Indexing
2021-22				
1	Dr. Lata Ragha	Secured and Quantum Resistant Key Exchange Cryptography Methods-A Comparison	International Conference on Interdisciplinary Research in Technology and Management, IEM, Kolkata, 24-26 February, 2022	IEEE Xplore
		Blockchain Impact of Security and Privacy in Digital Identity Management	Book chapter-13, Blockchain for Information Security and Privacy, December 2021, CRC Press (Taylor and Francis Group).	CRC Press
		Analysis of CT Scan Lung Cancer Images using Machine Learning Algorithms	6th International Conference on Intelligent Computing and Control Systems, Vaigai COE, Madurai, India, 25-27, May 2022	IEEE Xplore
		Abstractive Text Summarization for Multimodal Data	IC3SIS-22, SCMS SET Ernakulam, 23-25 June, 2022	IEEE Xplore
		Analysis of Software Bug Prediction and Tracing Models from a Statistical Perspective Using Machine Learning	2nd International Conference on Intelligent Technologies, K. L. E. Institute of Technology, Hubballi, 24-26, June 2022	IEEE Xplore
		Using Weakly Supervised Machine Learning Algorithms for Classification and Analysis of CT Scan Lung Cancer Images	2nd International Conference on Intelligent Technologies, K. L. E. Institute of Technology, Hubballi, 24-26, June 2022	IEEE Xplore
2	Mrs. Kiruthika M	Virtual Dressing using Augmented Reality	International Conference on Automation, Communication and Computing (ICACC-2021), RAIT, Nerul, Navi Mumbai, India, July14-15, 2021. Indexing – ITM Web of Conferences (MatecWeb of Conferences -Open Access).	--
		Legal Ledger - Blockchain In Judicial System	3rd International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2021) RVS College of Engineering & Technology, Coimbatore, India, 20th -21st August 2021, ISSN: 2367-4512 .	Springer Lecture Notes
3	Dr. Jyoti M.	Implementation of Multi-Channel Time To Digital Generator Using FPGA	2nd International Conference on Intelligent Technologies(CONIT) ,DOI: 10.1109/CONIT55038.2022 ,Hubli, Karnataka, INDIA,24-26 June 2022.	IEEE Xplore
		Leveraging the power of Blockchain in the health Insurance industry	2nd International Conference on Intelligent Technologies(CONIT) ,DOI: 10.1109/CONIT55038.2022.9848345 ,Hubli, Karnataka, INDIA,24-26 June 2022.	IEEE Xplore

4	Mr. Amroz Siddiqui	Artificial Intelligence Surveillance System	International Conference on Computing, Communication, Security and Intelligent Systems (IC3SIS), 23-25 June 2022, DOI: 10.1109/IC3SIS54991.2022.9885659 Kochi, India.	IEEE Xplore
5	Mrs. Smita D.	Develop a multilayered security approach to secure IoT enabled healthcare system	Conference on Technologies for Future Cities (CTFC 2021) 2nd in the Series Pillai College of Engineering (PCE) 8th - 9th October, 2021	IEEE Xplore
6	Mrs. Rakhi K.	Study on Design and Implementation of Distributed Multiple Camera Surveillance and Tracking System	2nd International Conference on Automation Computing and Communication (ICACC2021) Ramrao Adik Institute of Technology, Nerul, Navi Mumbai, Maharashtra July 14-15, 2021.	--
		An application to Improve Mental Health	2nd International Conference on Automation Computing and Communication (ICACC2021) Ramrao Adik Institute of Technology, Nerul, Navi Mumbai, Maharashtra July 14-15, 2021.	--
		Sky Detection in Outdoor Spaces	International Conference on Data Science and Artificial Intelligence (ICDSAI 2022) Indian Institute of Technology, Patna 24th-25th April ,2022	Scopus Indexed Springer
7	Ms. Shagufta R.	Study on Design and Implementation of Distributed Multiple Camera Surveillance and Tracking System	2nd International Conference on Automation Computing and Communication (ICACC2021) Ramrao Adik Institute of Technology, Nerul, Navi Mumbai, Maharashtra July 14-15, 2021.	--
		An application to Improve Mental Health	2nd International Conference on Automation Computing and Communication (ICACC2021) Ramrao Adik Institute of Technology, Nerul, Navi Mumbai, Maharashtra July 14-15, 2021.	--
		Sky Detection in Outdoor Spaces	International Conference on Data Science and Artificial Intelligence (ICDSAI 2022) Indian Institute Of Technology, Patna 24th-25th April ,2022	Scopus Indexed Springer
8	Mrs. Dakshayani G.	Travel Booking and Management Application: TravelBel	Sixth International Conference on ICT for Sustainable Development (ICT4SD 2021),August 5-6, 2021	Springer
		An E-store for Farmers Buying Seeds	2nd International Conference on Intelligent Technologies(CONIT) ,DOI: 10.1109/CONIT55038.2022 ,Hubli, Karnataka, INDIA,24-26 June 2022	IEEE Xplore
9	Ms. Suvarna B.	Implementation of Serverless E-Commerce Mobile Application	2nd International Conference on Intelligent Technologies(CONIT) , DOI: 10.1109/CONIT55038.2022.9847829 ,Hubli, Karnataka, INDIA,24-26 June 2022	IEEE Xplore

# FACULTY RESEARCH PAPER PUBLICATION 2020-21

Sr. No.	Name of the Faculty	Title of the paper	Details of Publication	Indexing
2020-21				
1	Dr. Lata Ragha	Comparison of Time-Series Forecasting Models	International Conference on Intelligent Technologies (CONIT 2021) 25th – 27th June 2021	IEEE Xplore
2.	Ms. Smita D.	A Broad Perspective On Integrating Internet of Things with Block chain	5th International Conference on Computing, Communication & Security (ICCCS-2020) organized by Indian Institute of Technology, Patna on October 14-16th 2020	IEEE Xplore
3.	Mr. Amroz S	Test case Recommendation for regression with Named Entity Recognition for test step prediction	4th Biennial International Conference on Nascent Technologies in Engineering ICNTE2021 January 15-16th 2021	IEEE Xplore
4.	Ms. Sandhya P	Performance Analysis of Optimizers for Plant Disease Classification using Convolutional Neural Networks	4th Biennial International Conference on Nascent Technologies in Engineering ICNTE2021 January 15-16th 2021.	IEEE Xplore



# FACULTY RESEARCH PAPER PUBLICATION 2019-21

Sr. No.	Name of the Faculty	Title of the paper	Details of Publication	Indexing
2019-20				
1	Dr. Lata Ragha	Image Compression Using Generative Adversarial Networks	IEEE Global Conference for Advancement in Technology, NCET, Bangalore, 18th – 20th, October 2019.	IEEE Xplore
2	Mrs. Smita D.	IoT Botnet: The largest attack on IoT Network	International Conference on Computing, Power and Communication Technologies will be published as a book chapter in Data Communication and Networks-Proceedings of GUCON 2019, e-book ISBN 978-981-15-0132-6,2019	Springer
3	Mrs. Shweta Tripathi	Agricultural Supply chain Using Blockchain	International Conference on Intelligent Manufacturing and Automation (ICIMA)2020 Springer Sept-2020	Springer
5	Mrs.Rakhi K	Swarm Robotics in Disaster Management	IEEE International Conference on Innovative Sustainable Computational Technologies (CISCT-2019) on October 11-12, 2019 at Graphic Era Deemed University, Dehradun, Uttarakhand, India, IEEE Conference Record No. 46613.	IEEE Xplore
		Inter AR: Interior Decor App using Augmented Reality Technology	5th International Conference on Cyber Security & Privacy (ICCS) 29th -30th Nov-2019 at NIT Kurukshetra , ISSN: 1556-5068	Elsevier-SSRN
6	Ms. Shagufta R	Swarm Robotics in Disaster Management	IEEE International Conference on Innovative Sustainable Computational Technologies (CISCT-2019) on October 11-12, 2019 at Graphic Era Deemed University, Dehradun, Uttarakhand, India, IEEE Conference Record No. 46613.	IEEE Xplore
		Inter AR: Interior Decor App using Augmented Reality Technology	5th International Conference on Cyber Security & Privacy (ICCS) 29th -30th Nov-2019 at NIT Kurukshetra , ISSN: 1556-5068	Elsevier-SSRN
7	Mrs. Dakshayani G.	Intrusion Detection: A Machine learning approach	Second International Conference on Advance Computing and Application (ICACTA 2020) on the theme "Intelligent Computing", D J Sanghvi College of Engineering, Mumbai, 28th-29th Febarury, 2020	Springer

# FACULTY RESEARCH PAPER PUBLICATION 2018-19

Sr. No.	Name of the Faculty	Title of the paper	Details of Publication	Indexing
2018-19				
1	Dr. Lata Ragha	A Review: Various Steering Conventions in MANET	Springer International Conference on Computer Networks, Big Data and IoT (ICCBI) at Vaigai College of Engineering, Madurai, India, 18 - 19 December, 2018 to be published in Springer Notes	Google Scholar, Springer
		Impact of Mobility and Density on Performance of MANET	Intelligent communication Technologies and Virtual Mobile Networks (ICICV-2019), February 14-15, 2019, Springer Conference at Francis Xavier Engineering College, Vannarpettai, Tirunelveli, Tamil Nadu, India.	Google Scholar, Springer
2	Kiruthika M	Fault Identification and Zone Protection in Transmission Line Using Phasor Measurement Units	IEEE International conference on New Trends in Engineering Technology (ICNTET) held on Sept 7-8 2018.	Conference Proceedings
		Performance Analysis of a Distance Relay for Zone Identification	2nd IEEE International conference on Power Electronics, Intelligent Control and Energy systems (ICPEICES) held on Oct.22-24, 2018.	IEEE Xplore
		Web Application for Screening Resume	3rd Biennial International Conference on Nascent Technologies in Engineering (ICNTE) January 4-5, 2019	Conference Proceedings
		Phasor Measurement Units based Impedance Relay: A Case Study	4th International Conference on Recent Trends on Electronics, Information, Communication and Technology RTEICT- SVCE Bengaluru, May 17-18 2019.	
3	Ms.Rakhi K	Drones for Assistance in Emergency Situations	8th National Conference on Wave Mechanics and Vibrations (WMVC -2018) 26 –28 November, 2018	Conference Proceedings
		Android Controlled Wheelchair	First International Conference On Secure Cyber Computing And Communications December 15-17, 2018	IEEE Xplore
4	Ms. Sandhya P	Indoor Navigation System using BLEBeacons	3rd Biennial International Conference on Nascent Technologies in Engineering (ICNTE) January 4-5, 2019	Conference Proceedings
5	Ms. Shagufta R	Drones for Assistance in Emergency Situations	8th National Conference on Wave Mechanics and Vibrations (WMVC -2018) 26 –28 November, 2018	Conference Proceedings
		Android Controlled Wheelchair	First International Conference On Secure Cyber Computing And Communications December 15-17, 2018	IEEE Xplore

6	Ms. Kavita Shelke	Smart Towing System Using Mobile Application	NITS & IIT Kgp -Better things for Better Living 7-11 April 2019	Conference Proceedings
7	Ms. Dakshayani G	Chronic Kidney disease Predication &Recommendation of suitable Diet Plan by using Machine Learning	3rd Biennial International Conference on Nascent Technologies in Engineering (ICNTE) January 4-5, 2019	Conference Proceedings
		Smart Towing System Using Mobile Application	NITS & IIT Kgp -Better things for Better Living 7-11 April 2019	Conference Proceedings
8	Mr. Rahul Jadhav	Chronic Kidney disease Predication &Recommendation of suitable Diet Plan by using Machine Learning	3rd Biennial International Conference on Nascent Technologies in Engineering (ICNTE) January 4-5, 2019	Conference Proceedings
		Smart Towing System Using Mobile Application	NITS & IIT Kgp -Better things for Better Living 7-11 April 2019	Conference Proceedings

# FACULTY RESEARCH PAPER PUBLICATION 2017-18

Sr. No.	Name of the Faculty	Title of the paper	Details of Conference	Indexing
2017-18				
1.	Dr. Lata Ragha	Network Selection Scheme using Taguchi Method over Heterogeneous Networks	International Conference on Computing, Communication and Signal Processing, January 26th -27th, 2018, BATU, Lonere.	Springer AISE Series
		A Sneak Preview of Sentiment Analysis	IEEE Conference on Smart City and Emerging Technologies, UCE, Mumbai, 05th Jan, 2018.	IEEE Xplore
2	Ms. Smita Dange	eConf- A Generic Conference Management Tool	International Conference on Advanced Trends in Engineering” held in DMCE, Airoli, April 2018.ISBN NO:978-93-5267-422-0.	Conference Proceedings
3	Ms. Shweta Tripathi	Live Data Forensics & Metadata Analysis	National Conference on " Recent Trends in Cyber Fraud Investigations & Forensics" on 27th & 28th April 2018 at Sandip Institute of Engineering & Management at Nashik	Conference Proceedings
4	Ms. Rakhi Kalantri	Deriving Insights and Analysis for Campaign Management	5th National Conference & Exhibition February 19th - 20th, 2018 Jointly Organized by Indian Institute of Technology, Kharagpur Govt. College of Engg. & Tech.,Jammu.	Conference Proceedings
		Gesture Glove	International conference on Innovation and Research in Technology & Engineering, 26th – 27thOctober2017, PVPPCOE, Mumbai.	Conference Proceedings
5	Mr. Mritunjay Ojha	Sentiment Analysis of Tweets for Mapping of Stock Price Movement	International Conference on Advanced Trends in Engineering” held in Datta Meghe Engg College, Airoli, April 2018. ISBN NO: 978-93-5267-422-0.	Conference Proceedings
6	Mr. Rahul Jadhav	Automatic Classification of an Imbalanced Diabetic Retinopathy Dataset using Convolutional Neural Networks	International Conference on Frontier in Engineering, Applied Science and Technology (FEAST2018), NIT, Tiruchirappalli April 2018.	Conference Proceedings



# FACULTY RESEARCH PAPER PUBLICATION 2016-17

Sr. No.	Name of the Faculty	Title of the paper	Details of Conference	Indexing
2016-17				
1	Dr. Lata Ragha	Enrich Security in MANET by Avoiding Wormhole Attack	International Conference on Emerging Trends in Electrical Communication Technology, (ICETECT - 2017), 30 – 31 March 2017, Saveetha University, Chennai.	Scopus indexed journals (IJCTA/ Global journal of science).
2	Ms. Smita Dange	Semi-Autonomous Pick and Place Robot	IEEE Technically Co – Sponsored International Conference on Nascent Technologies in Engineering, January 27 – 28, 2017Fr.C.R.I.T, Vashi-Navi Mumbai	Conference Proceedings
3	Ms. P. B.Vijayalakshmi	Ship Intrusion Detection Security System Using Image Processing & SVM	IEEE Technically Co – Sponsored International Conference on Nascent Technologies in EngineeringJanuary 27 – 28, 2017Fr.C.R.I.T ,Vashi-Navi Mumbai	Scopus
4	Ms. Shweta Tripathi	Monitoring Effects of Air Pollution on health Issues using an App	International conference on Environment Management and Sustainability, S.I.E.S, Nerul, Navi Mumbai. 4th -6th January 2017.	Conference Proceedings

# FACULTY RESEARCH PAPER PUBLICATION 2015-16

Sr. No.	Name of the Faculty	Title of the paper	Details of Conference	Indexing
2015-16				
1	Mr. Rahul Jadhav	An Efficient and Interactive Approach for Association Rules Generation by Integrating Ontology and Filtering Technique	International Conference on ICT for Sustainable Development (ICT4SD) held at Ahmedabad, India, during 3 – 4 July 2015. ISSN:2194-5357, pp. 233-241	Conference Proceedings (Online)ICT4SD 2015 Volume 1

# JOURNAL PUBLICATIONS

ACADEMIC YEAR 2022-23

Sr no.	Name of the Faculty	Title of the paper	Details	Indexing
1	Dr. Lata Ragha	Challenges in making blockchain privacy compliant for the digital world: some measures	Sadhana - Academy Proceedings in Engineering Sciences, 47(3), 168, Aug 2022, Article ID 0168	Scopus Indexed
		MACVTL: Improving Efficiency of Mood Analysis from Text & Facial Cues Using Cross Validation and Transfer Learning	Journal of Cognitive Science (JCS), Vol.-24, Issue-1, March 2023, pp: 43-80, DOI: 10.17791/jcs.2023.24.1.43	Scopus, ESCI, EBSCO, KCI Indexed
		A Quantum Resistant Blockchain System for Privacy Protection of Patient Records	International Journal of Engineering Trends and Technology, 71(4), 2023, pp. 79–96	Scopus Indexed
		Lung Tumor Detection using Deep CNN Architecture with the final Layer as Machine Learning: CT Scan Images	Journal of Data Acquisition and Processing, 38(2), April 2023, pp. 1532-1542	Scopus Indexed
2	Dr. Kiruthika M	Enhancement of detection mechanisms for HTTP based DoS/DDoS attacks	ADBU-Journal of Engineering Technology. AJET, ISSN: 2348-7305, Volume 12, Issue1, June, 2023, 0120103421(8PP).	UGC CARE List (Open Access)- Group I.
3	Nupur Gaikwad	Surveillance System with Human Intrusion Detection	International Journal of Innovative Science and Research Technology(IJISRT) Volume 9, Issue 4, April-2024	

# JOURNAL PUBLICATIONS

ACADEMIC YEAR 2022-23

Sr no.	Name of the Faculty	Title of the paper	Details	Indexing
1	Dr. Lata Ragha	Challenges in making blockchain privacy compliant for the digital world: some measures	Sadhana - Academy Proceedings in Engineering Sciences, 47(3), 168, Aug 2022, Article ID 0168	Scopus Indexed
		MACVTL: Improving Efficiency of Mood Analysis from Text & Facial Cues Using Cross Validation and Transfer Learning	Journal of Cognitive Science (JCS), Vol.-24, Issue-1, March 2023, pp: 43-80, DOI: 10.17791/jcs.2023.24.1.43	Scopus, ESCI, EBSCO, KCI Indexed
		A Quantum Resistant Blockchain System for Privacy Protection of Patient Records	International Journal of Engineering Trends and Technology, 71(4), 2023, pp. 79–96	Scopus Indexed
		Lung Tumor Detection using Deep CNN Architecture with the final Layer as Machine Learning: CT Scan Images	Journal of Data Acquisition and Processing, 38(2), April 2023, pp. 1532-1542	Scopus Indexed
2	Dr. Kiruthika M	Enhancement of detection mechanisms for HTTP based DoS/DDoS attacks	ADBU-Journal of Engineering Technology. AJET, ISSN: 2348-7305, Volume 12, Issue1, June, 2023, 0120103421(8PP).	UGC CARE List (Open Access)- Group I.



Sr no.	Name of the Faculty	Title of the paper	Details	Indexing
3	Dr. Jyoti More	Meta-Analysis and Vaccination framework for COVID-19	International Journal of Engineering Research & Technology, Vol-12, Issue-3, March 23.	---
		Critical issues in Leveraging Blockchain in Healthcare Sector	International Journal on Recent and Innovation Trends in Computing and Communication, May 2023, Vol 11, no-5, 128–133.	Indexed
4	Mrs. Smita Dange	Secure Share : Optimal Blockchain Integration in IOT Systems	Journal of Computer Information Systems, April 2023, DOI : 10.1080/08874417.2023.2193943	SCI Indexed

# JOURNAL PUBLICATIONS

ACADEMIC YEAR 2021-22

Sr no.	Name of the Faculty	Title of the paper	Details	Indexing
1	Dr. Kiruthika M	Secured protection of transmission line by distance relay using data mining approach	Indonesian Journal of Electrical Engineering and Computer Science Vol. 23, No. 1, July 2021, pp. 1~13 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v23.i1.pp1-13	Scopus Indexed
2	Mrs. Shweta Tripathi	Consumer-Service Provider Connect	International Journal of Scientific Research & Engineering Trends Volume 7, Issue 4, July-Aug-2021, ISSN (Online): 2395-566X	--
		Object Detection at Crime Scene	Digital Forensics Journal, Vol.3, Issue 3, August 2021, Pg:21-25	--
3	Mrs. Kavita	Trust-Aid (Blockchain-based Charity system	International Research Journal of Engineering and Technology (IRJET) Volume 09, Issue 03 March 2022 e-ISSN:2395-0056 P-ISSN:2395-0072	--
		Air Scribble – Character Recognition Using Pen Tip	A Journal of Physical Sciences and Engineering and Technology , Samriddhi , Volume No. 14, Issue- 2, ,ISSN [P]2229-7111ISSN[O]24545767 ,April - June 2022	UGC Care
4	Mrs.Padmashri Vijayavel	Car Damage Assessment to automate Insurance Claim	International Research Journal of Engineering and Technology (IRJET), Vol. 9, Issue No. 3 (2021), ISSN (Online): 2395-0056, Mar 2022	--

# JOURNAL PUBLICATIONS

ACADEMIC YEAR 2020-21

Sr no.	Name of the Faculty	Title of the paper	Details	Indexing
1	Dr. Lata Ragha	Analysis of Software Bug Prediction and Tracing Models from a Statistical Perspective Using Machine Learning	Journal of IET Communications, Volume-14, Issue-6, January 2020, pp. 994-1004	Scopus
		Improving Accuracy of Sentiment Analysis for Depression Recommendation using Multi-Domain Fuzzy Rules	International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9, Issue-4, February 2020, pp.2434-2438	--
2	Mr. Amroz S.	Artificial Intelligence Surveillance System	International Journal for Science and Advance Research in Technology, Volume 7, Issue 5 in May 2021, PAPER ID: IJSARTV7I547729	--
		Real-Time WebRTC based Mobile Surveillance System	International Journal of Engineering and Management Research (IJEMR) Volume-11, Issue-3(June 2021) e-ISSN: 2250-0758   p-ISSN: 2394-6962	--
3	Mrs. Smita D.	Intelligent Lunar Landing Site Recommender	International Journal of Engineering and Management Research e-ISSN: 2250-0758   p-ISSN: 2394-6962 Volume-11, Issue-2 (April 2021) www.ijemr.net https://doi.org/10.31033/ijemr.11.2.26	--

**ACADEMIC YEAR 2020-21**

Sr no.	Name of the Faculty	Title of the paper	Details	Indexing
4	Mrs. Rakhi K.	Eye(I) Still Know! –An App for the Blind Built using Web and AI	International Journal of Engineering and Management Research (IJEMR) Volume -11, Issue-2 (April 2021) ISSN: 2250-0758   p-ISSN: 2394-6962 <a href="https://doi.org/10.31033/ijemr.11.2.31">https://doi.org/10.31033/ijemr.11.2.31</a>	--
5	Mrs. Kavita S.	Quick Park: An Effective Parking System	International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE) Indexed by Microsoft Academic, Google Scholar, Mendeley, NAAS Accredited Science Journal	--
6	Ms. Dakshayani G	Red-Teaming Labs	India's First Digital Forensics(4N6) Publication Volume: III   Issue: II, <a href="https://doi.org/10.46293/4n6/2021.03.02.10">https://doi.org/10.46293/4n6/2021.03.02.10</a>	--
		Strategic Tower Defense Game	International Journal of Engineering and Management Research e-ISSN: 2250-0758   p-ISSN: 2394-6962 Volume-11, Issue-3 (June 2021) <a href="https://doi.org/10.31033/ijemr.11.3.12">https://doi.org/10.31033/ijemr.11.3.12</a>	--
7	Mrs. Padmashri N.	Twitter Bot Detection	International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE) Vol. 10, Issue 4, April 2021 ISSN (Online) 2278-1021 ISSN (Print) 2319-5940 DOI 10.17148/IJARCCE.2021.10417	--

		Gardening for You: A Smart Gardening Tool	International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE) Vol. 10, Issue 4, April 2021 ISSN (Online) 2278-1021 ISSN (Print) 2319-5940 DOI 10.17148/IJARCCE.2021.10422	--
--	--	---	---	----



**ACADEMIC YEAR 2019-20**

Sr no.	Name of the Faculty	Title of the paper	Details	Indexing
1	Dr. Lata Ragha	Eye(I) Still Know! –An App for the Blind Built using Web and AI	Indonesian journal of Electrical Engineering and Computer Science, Vol. 16, No. 1, October 2019, pp. 116-126.	--
		Effective bandwidth prediction through statistical technique over heterogeneous networks	International Journal of Innovative Technology and Exploring Engineering, Volume 8, Issue 12, October 2019, pp. 508-512.	
		Establishing Secure Routing Path Using Trust to Enhance Security in MANET	Journal of Wireless Personal Communications, Vol-110, Issue-1, January 2020, pp. 245-255	
2	Mrs. Kiruthika M	Best Fit Resume Predictor	International Research Journal of Engineering and Technology (IRJET) Volume 6, Issue 8, S.NO:159, e-ISSN: 2395-0056.	--
		Classification of Electrical Power System Conditions with Convolutional Neural Networks	Journal of Engineering, Technology & Applied Science Research (ETASR). Vol. 10 No. 3 (2020): June, 2020. Pages: 5759-5768.	--

ACADEMIC YEAR 2019-20

Sr no.	Name of the Faculty	Title of the paper	Details	Indexing
3	Mrs. Shweta Tripathi	The PRNU Algorithm of Video Forensics	Digital Forensics Journal, Vol.4, Issue 2, May 2020, Pg:42-52	--
4	Ms. Kavita Shelke	Explicit Content Detection using Faster R-CNN and SSD Mobile Net v2	International Research Journal of Engineering and Technology (IRJET) Volume 7, Issue 3, March 2020 ISSN: 2395-0056	
5	Mr. Rahul Jadhav	Face Reconstruction using PCA and Eigen Faces	International Research Journal of Engineering and Technology (IRJET) Volume: 07 Issue: 09   Sep 2020 e-ISSN: 2395-0056	

# STUDENT ACTIVITIES



# STUDENT PUBLICATIONS

Sr no.	Student Name	Paper Title	Details
1	Ananth Balvalli Aashish Bathe Shruti Dalvi Prashansa Erande	Implementation of Number Transcription Tool	6th IEEE-International Conference on Advances in Science and Technology (ICAST), ), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981- 7,2023.
2	Dany Poly Ishika Gupta Hanah Susan Zachariah	Gesture Based Computer Control	6th IEEE-International Conference on Advances in Science and Technology (ICAST), ), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981- 7,2023.
3	Suhaani Aggarwal Austin Paul Tejashree Bhangale Sameer Bharambe	An application to ImproveMental Health	2nd International Conference on Automation Computing and Communication (ICACC2021) Ramrao Adik Institute of Technology, Nerul,Navi Mumbai, Maharashtra July 14-15, 2021.
4	Aaditee Pate Bryan Francis Vardaan Sathe	Transfer Learning-Based Recommendation System	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.
5	Seadon Kinny Bijith B Maman Walter Mhapsekar Sarthak Waghmare	Analysis of DDoS Attacks using Datamining	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.

# STUDENT PUBLICATIONS

Sr no.	Student Name	Paper Title	Details
6	Franz Cardoz Loorthu Infenda Daffril Cleetus Ajinkya Deshpande	Visual Sentinel: Data Analytics for Missing Subject Identification	<b>IEEE Pune Section International Conference, (Punecon-23), Pune, Dec 2023</b>
7	Nidhi Shrivastav Atharva Suryavanshi Ojas Mhatre	Website for NGOs - Beyond Kind	8th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2023) , Jaipur, India, 8 - 9 December 2023.
8	Shreshta. Sharma Shehal Tagalpallewar Harsh. Singh K. Yadav	Blockchain Based Property Deeds Repository System	14th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-6, doi: 10.1109/ICCCNT56998.2023.10307224.
9	Kousthubh Yadavalli Jovita Jose Thomas Sanjana Santhosh Roger Mel	Revolutionizing Restaurant Service: Harnessing Tablets for Seamless and Touch-free Order Placement	IEEE Fourth International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE), Dec 2023.
10	Edwin Vincent Gregory Geevarghese Pratik Pradeep Dhumal	Micro services Framework for Remote Management of IoT based Environmental Monitoring System	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.



# STUDENT PUBLICATIONS

Sr no.	Student Name	Paper Title	Details
11	Karishma Rajput Aditya Yempalle Vasundhara Nimbalkar Pratik Shinde Juhi Ramod	Verifier: Marksheet verification using blockchain	6th International Conference on Advances in Science and Technology (ICAST-2023), K. J. Somaiya Institute of Engineering & Information Technology, 8th and 9th December ,ISBN: 979-8-3503-5981-7,2023.
12	Ishmeen Kaur Garewal, Shruti Jha	Modeling for Identifying Emerging Trends on Instagram using Latent Dirichlet Allocation and Non-Negative Matrix Factorization	10th International Conference on Advanced Computing and Communication Systems (ICACCS),2024(Accepted)
13	Juhi Ramod, Pratik Shrivastav Rajit Shetty	Signature Authentication: Verification using Siamese Network	6th IEEE Conference on Advances in Science and Technology, 8-9 December 2023, KJSIT, Sion.
14	Christine John Tacita Thomas E. Aafreen Khan Serena Albert	Streamlining College Cafeteria Operations: A Web Portal for Efficient Bulk Order Management	Hinweis Second International Conference on Advanced in Information, Telecommunication and Computing (AITC), Hybrid Mode; April 27-28, 2024
15	Lawrence Rodriques Swati Padmanabhan Sumit Prasad Neha Auti	Surveillance System with Human Intrusion Detection	Hinweis Second International Conference on Advanced in Information, Telecommunication and Computing (AITC), Hybrid Mode; April 27-28, 2024 International Journal of Innovative Science and Research Technology(IJISRT) Volume 9, Issue 4, April-2024

# **TOPPERS** **2022 - 2023**

Year	Sr no.	Name	CGPi
SECOND YEAR	1	SUHAANI AGGARWAL	9.79
	2	ANANTH BALVALLI	9.61
	3	ERANDE PRASHANSA	9.60
THIRD YEAR	1	CHRISTINE JOHN	9.87
	2	SEADON KINNY	9.74
	3	MIHIKA VINOD CHOUDHARY	9.63
FINAL YEAR	1	SHREYA SUSHIL SAPALE	9.72
	2	ELISHA GRAS	9.65
	3	MOGHE PRANIT	9.51

# CAMPUS PLACEMENT

Sr. No.	Company	Pay Package	No of offers
1.	Seclore	12	1
2.	Forcepoint	11.6	1
3.	TCS Prime	9	1
4.	Carwale (Pool)	9	4
5.	Dimensionless	8.4	3
6.	CCIL	8.16	6
7.	TCS Digital	7	6
8.	Sciative Solutions	7	2
9.	Tata Power	6.97	1
10.	LTFS	6	6
11.	Reliance Mobility BP	5.5	2
12.	Intellect Design Arena	5	3
13.	Accenture	4.5	20
14.	Aurionpro	4.5	7
15.	63 Moon Technologies	4.5	1
16.	Deloitte	4.13	1
17.	Safran	4	2

# CAMPUS PLACEMENT

Sr. No.	Company	Pay Package	No. of Offers
18.	Sarman Engineering	3.6	1
19.	TCS Ninja	3.3	9
20.	Eidiko (nextGenVentures)	3	2

# CAMPUS PLACEMENT

## Forcepoint

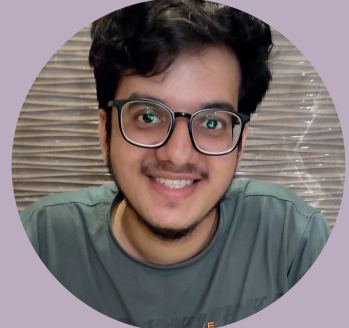
Pay Package: 11.6L



Mariam T.

## TCS PRIME

Pay Package: 9 L



Sahil R.

## Carwale (Pool)

Pay Package: 9 L



Karishma Rajput



Pratham Shah



Joel Varghese

## CCIL

Pay Package: 8.16 L



Shreyansh J.



Joshua J.



Justin M.

# CAMPUS PLACEMENT

## Sciative Solutions

Pay Package: 7 L



Bijith M.



Paul C.

## Tata Power

Pay Package: 6.97L



Joel M.

## LTFS

Pay Package: 6 L



Ajinkya D.



Lavanya K.



# CAMPUS PLACEMENT

## Intellect Design Arena

Pay Package: 5 L



Punith G.



Milind G.

## 63 Moons Technologies

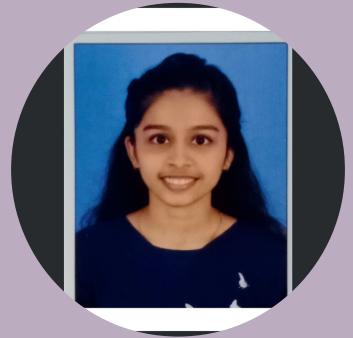
Pay Package: 4.5 L



Edmond J.



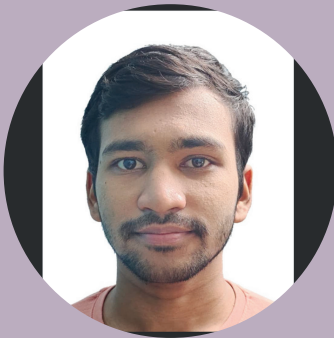
Machlin J.



Sebastly W.

## Aurionpro

Pay Package: 4.5 L



Samuel Padmadan



Vinayak P.



Lawrence R.



Swati P.



Neha A.

# CAMPUS PLACEMENT

## Accenture

Pay Package: 4.5 L



**Chris Abraham**



**Vanashree A.**



**Shraddha A.**



**Loorthu I.**



**Mihika C.**



**Daffril C.**



**Bhairavi D.**



**Anish D.**



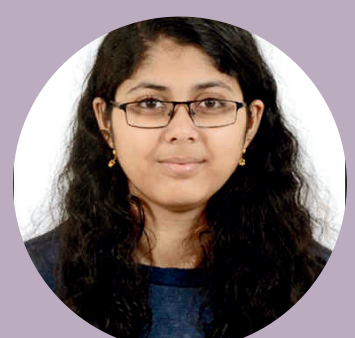
**Namrata G.**



**Ayush D.**



**Christine J.**



**Aneesha K.**



**Imran K.**



**Aafreen K.**



**Vithi K.**



**Kristen N.**



# CAMPUS PLACEMENT

## Deloitte

Pay Package: 4.13 L



Walter M.

## Safran

Pay Package: 4 L



Kris G.

## Reliance Mobility BP

Pay Package: 3.6L



Snowson J.

## TCS Ninja

Pay Package: 3.3 L



Sucheta B.



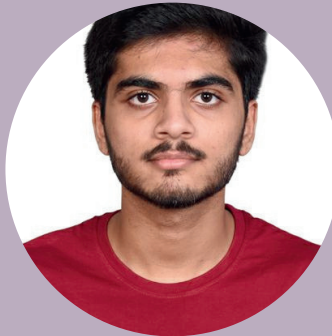
Sylvester D.



Shivkumar H



Alden F.



Pratik S.



Seadon K.

# CAMPUS PLACEMENT

## TCS Ninja

Pay Package: 3.3 L



Archit N.



Rajdeep S.

## Eidiko (nextGenVentures)

Pay Package: 3 L



Disha K.



Alex R.

# CSI- COMPUTER

# ENGINEERING 2023-2024

“ The highest education is that which does not give merely education but makes our life in harmony with existence” -  
Rabindranath Tagore

The Department of Computer Engineering in concomitance with the CSI (Computer Society of India) chapter of FCRIIT Vashi organized various activities for the students in the academic year 2023-2024 to sharpen their technical acumen and serve as a window to the corporate world

ACTIVITY	NO. OF PARTICIPANTS	CONVEYER	SPEAKERS
Cryptex Workshop - AIML with Python	33	Ms. Shagufta K, Ms. Snehal Nikalje	Sagar Shukla, Chandresh Menon, Austin Paul, Ian Thomas
Cryptex Workshop - Web Development	33	Ms. Shagufta K, Ms. Snehal Nikalje	Rohan Dhonde, Prashansa Erande, Kousthubh Yadavalli
Cryptex Workshop - Open Source & GitHub Workshop	35	Ms. Shagufta K, Ms. Snehal Nikalje	Darren Dsouza, Shivankur Chavan, Aaron
Cryptex Workshop - UI/UX	32	Ms. Shagufta K, Ms. Snehal Nikalje	Aniket Sahu, Md Tahir Shikalgar, Roshni Thankachan
Professional Ethics & Human Values	96	Dr. Chhaya P, Ms. Snehal Nikalje	Mrs. Prathusha Chatterjee
ACCESS SE	110	Dr. Chhaya Pawar, Ms. Snehal Nikalje	Mr. Karan Balkar
CodeMania	63	Dr. Chhaya Pawar, Ms. Snehal Nikalje	-
ACCESS TE	112	Dr. Chhaya Pawar, Ms. Snehal Nikalje	Mr. Karan Balkar
Seminar on Career Opportunities in Data Centered Technologies	48	Dr. Chhaya Pawar, Ms. Snehal Nikalje	Mr. Ramesh Kharat
Cyber Security Seminar	55	Dr. Chhaya Pawar, Ms. Snehal Nikalje	Mr. Ajinkya Lohakare
Agnethon	258	Ms. Snehal N, Ms. Priyamvada S.	a. Mentors: Mr. Aditya Unnikrishnan, Mr. Jatin Desai, Mr. Francis Anthony, Mr. Trevor Dcosta, Mr. Loukik Raina, Mr. Aftab Khan, Mr. Huzaifa b. Judges: Dr. Rohit Gautham, Dr.Shifa Cyclewala, Mr.Yash Turakhia , Mr.Sachin Gaikwad



# CSI- COMPUTER ENGINEERING SH-2023



CRYPTEX Open Source and Github



CRYPTEX UI/UX



# CSI- COMPUTER ENGINEERING SH-2023

Problem

Submissions

Leaderboard

Submitted 23 minutes ago • Score: 100.00 Status: Accepted

✓	Test Case #0	✓	Test Case #1	✓	Test Case #2
✓	Test Case #3	✓	Test Case #4	✓	Test Case #5
✓	Test Case #6				

### Submitted Code

Language: C [Open in editor](#)

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7     int d,p;
8     scanf("%d",&d);
9     p=d/3;
10    printf("%d",p);
11    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
12    return 0;
13 }
14
```

CodeMania



ACCESS

# CSI- COMPUTER ENGINEERING SH-2023

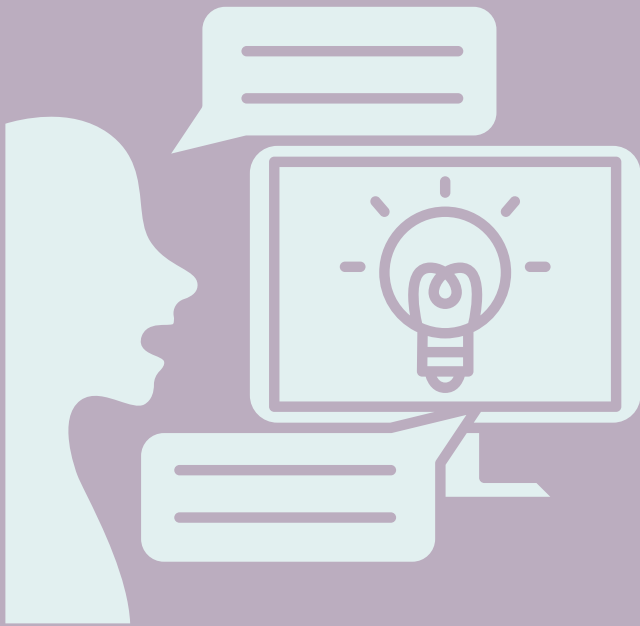


Agnethon 2024



Agnethon 2024

# EXTRA- CURRICULAR ACTIVITIES







FCRIT (WOMEN) team won Gold Medal at the University of Mumbai's Thane Zone Inter-Collegiate Basketball Tournament.



FCRIT (WOMEN) team won Silver Medal at the University of Mumbai's Thane Zone Inter-Collegiate Volleyball Tournament.

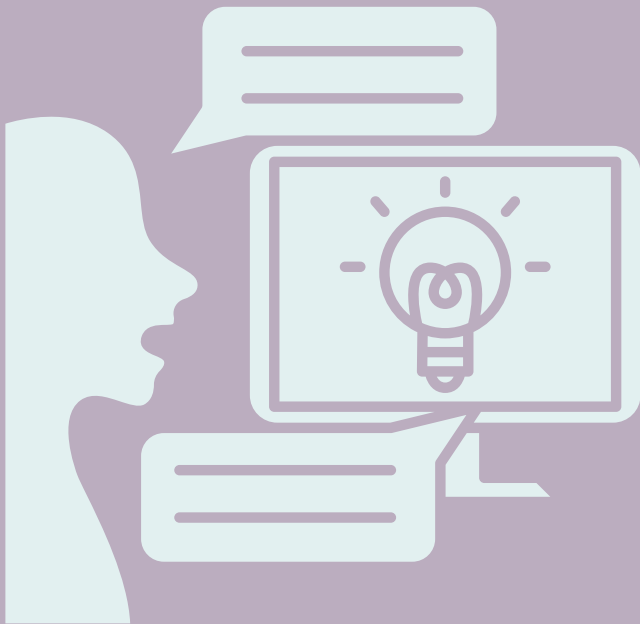


Thane zonal team & secured Third Place in the Inter Zonal Basketball Tournament organised by Mumbai University on 26/10/2023, at University Sports complex, Vidyanagari Santacruz East.



Thane zonal team & secured Third Place in the Inter Zonal Basketball Tournament organised by Mumbai University on 26/10/2023, at University Sports complex, Vidyanagari Santacruz East.

# CO-CURRICULUM ACTIVITIES







Project "GrainNexus" qualified for Final Round in Pitch Perfect 5.0 held at IIM Bodhgaya. Out of the 440 teams registered only 23 qualified for the Final Offline Round at IIM.

Project "GrainNexus" shortlisted under the theme Computational Intelligence at DIPEX 2024; a State Level Exhibition cum Competition held during 7th to 10th March 2024 at Terna Engineering College.

Project "GrainNexus" Secured First Prize in Project Exhibition Competition CHEMFLUX 11.0, organized by the Chemical Engineering Department of The SRM Institute of Science and Technology.



Project "GrainNexus" bagged first prize trophy with a cash prize of 4k and medals Resilience Techmasters organised by IETE committee of MH SABOO SIDDIK College of Engineering, Byculla in Jan 2024

Project "GrainNexus" shortlisted in Aaviskar selected for finals in Dec 23.

Project "GrainNexus" bagged first prize with a cash prize of 5k in Ideathon 2k24 conducted by Mechanical dept of FCRIT. Vashi in IEI belapur.

Lavanya Kunder, Pratik Shinde and Vinayak Patkar bagged the first prize for the topic "Ethanol as a fuel source" in Ideathon held at FCRIT on 14 March 2024.



Ananth Balvalli, Himanshu Agarwal, Pranav Batki, Shruti Dalvi, Stephen Mathew won first prize in Data Detective Competition organized by Department of Statistics and Department of I.T., St. Xaviers College, Chhatrapati Shivaji Terminus Area, Fort, Mumbai, Maharashtra in Jan 24

# STUDENT ACHIEVEMENTS



Name: Ritika Jagtap

Company: Microsoft

Role: Software Engineer Intern

Duration: 2 months

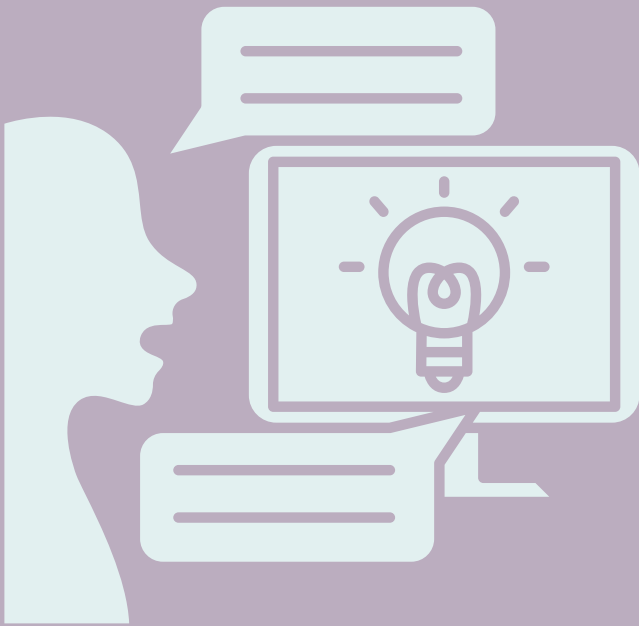
Stipend: 125,000 / month

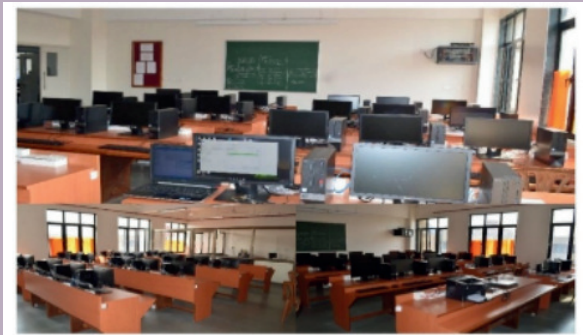
Location: Bangalore

Team: Cloud + AI



# DEPARTMENT ACTIVITIES





DATABASE LABORATORY



NETWORK AND SECURITY LABORATORY



AGNETHON-24



PROJECT COMPETITION PCUBE



TIFR VISIT - COLABORATIVE PROJECTS



# INDUSTRIAL VISITS



T.E. B



T.E. A



S.E. A



S.E. B

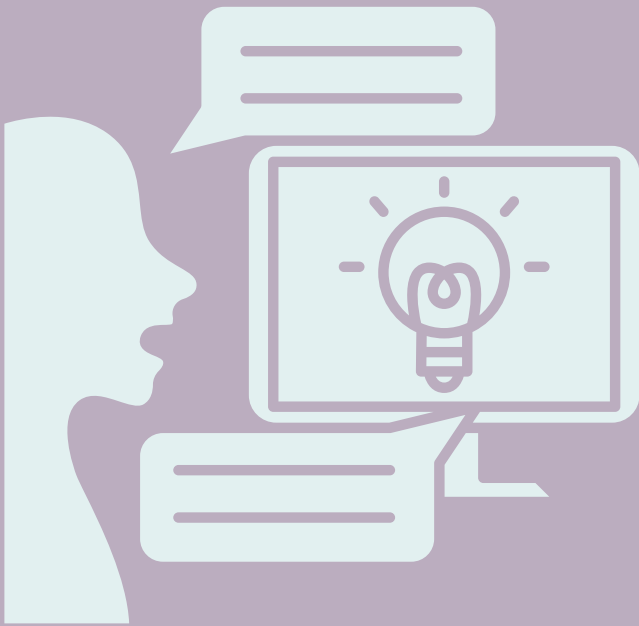


B.E. A



B.E. B

# ARTICLES





# APPLE'S BOLD TRANSITION TO ARM CHIPS: REDEFINING THE FUTURE OF COMPUTING



Apple's transition from Intel processors to its custom-designed M series chips represents a monumental shift in the company's approach to its Mac lineup, redefining performance, efficiency, and ecosystem integration. Announced at WWDC 2020 and initiated with the release of the M1 chip later that year, this strategic move allows Apple to exercise complete control over both hardware and software. The M series, which includes the M1, M1 Pro, M1 Max, and M1 Ultra, is built on ARM architecture, delivering significant improvements in power efficiency and performance.

## Technical Superiority and Efficiency

The M series chips are a culmination of Apple's expertise in silicon design, honed over a decade through its development of A-series chips for the iPhone and iPad. These chips integrate CPU, GPU, RAM, and other components into a single system-on-a-chip (SoC), enhancing efficiency and speed by reducing the latency between these elements. The M1 chip, for instance, incorporates an 8-core CPU with four high-performance cores and four high-efficiency cores, offering a remarkable balance between raw power and energy conservation. This architecture allows Macs to perform demanding tasks such as video editing, 3D rendering, and software development with ease while maintaining impressive battery life, a feat that was challenging for Intel-based Macs.

## Performance and Graphics Capabilities

In terms of graphics performance, the M1 chip includes an 8-core GPU capable of executing 25,000 threads simultaneously, making it one of the fastest integrated graphics solutions on the market. The higher-end variants like the M1 Pro, M1 Max, and M1 Ultra push these boundaries even further. For example, the M1 Max features a 32-core GPU and up to 64GB of unified memory, enabling it to handle complex workflows, such as 8K video editing and high-fidelity 3D graphics rendering, with unparalleled efficiency. These advancements not only cater to creative professionals and power users but also elevate the overall user experience for everyday computing tasks.

# THE RISE OF LARGE LANGUAGE MODELS: TRANSFORMING OUR LIVES AND FUTURE



Large Language Models (LLMs) are revolutionizing various aspects of our lives by leveraging their advanced natural language processing capabilities. These sophisticated AI systems, trained on vast datasets, can understand and generate human language with remarkable proficiency, leading to transformative impacts across multiple domains. Here, we delve deeper into the myriad ways LLMs are reshaping our world, as well as the ethical considerations that accompany their widespread adoption.

## Communication

In the realm of communication, LLMs facilitate seamless language translation, breaking down linguistic barriers and fostering global connectivity. Advanced translation services powered by LLMs provide real-time, context-aware translations that enhance cross-cultural communication and collaboration. Additionally, LLMs are revolutionizing customer service through intelligent chatbots and virtual assistants. These AI-driven solutions can handle a wide range of inquiries, providing instant, accurate responses that improve user experience and business efficiency. By managing routine interactions, these systems allow human agents to focus on more complex customer needs, thereby enhancing overall service quality.

## Education

In education, LLMs offer personalized tutoring, adapting to individual learning styles and paces. They can provide explanations, answer questions, and generate practice problems tailored to each student's needs. This personalized approach helps in addressing gaps in understanding and promotes effective learning. Educators benefit from LLMs as well, as these models assist in grading assignments, creating educational content, and managing administrative tasks, freeing up more time for teaching and student engagement. Furthermore, LLMs democratize access to knowledge by offering educational resources and support to underserved communities, bridging the gap in educational opportunities.

## Workplace Transformation

The workplace is undergoing a significant transformation with the integration of LLMs. These models automate routine tasks such as drafting emails, generating reports, and scheduling meetings, thereby improving productivity and allowing professionals to concentrate on strategic and creative endeavors. LLMs enhance collaboration by summarizing discussions, suggesting action items, and providing insights from vast amounts of data. In professions such as law and medicine, LLMs assist in analyzing legal documents, drafting contracts, and even suggesting diagnoses based on patient data, significantly boosting efficiency and decision-making accuracy.

## Creative Industries

Creative industries are witnessing a revolution with the advent of LLMs. Writers, artists, and musicians are leveraging these models to generate content, brainstorm ideas, and even co-create works of art. LLMs can write stories, create visual art, compose music, and develop scripts, serving as collaborative tools that inspire and expand creative possibilities. By automating repetitive aspects of the creative process, LLMs enable creators to focus on refining their unique artistic visions and exploring new creative frontiers.

# CREATIVE SECTION

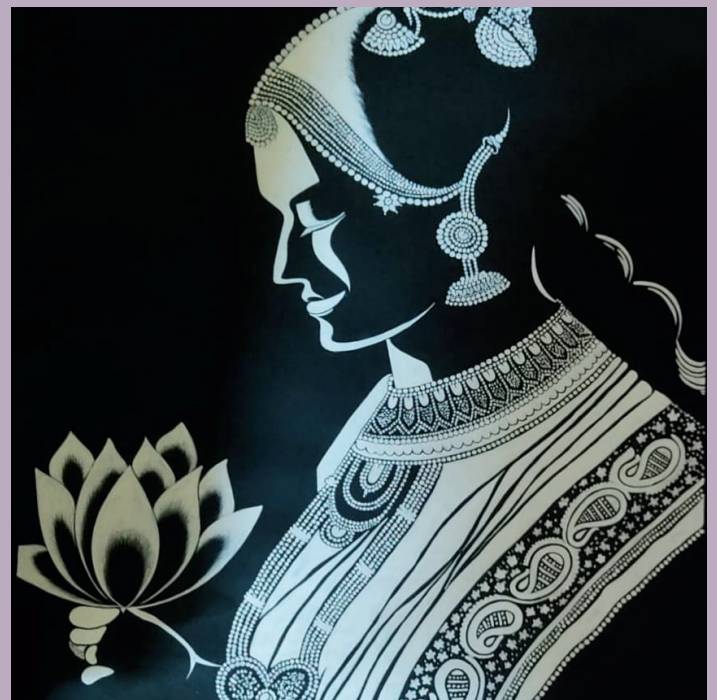


BY DEPARTMENT OF COMPUTER ENGINEERING





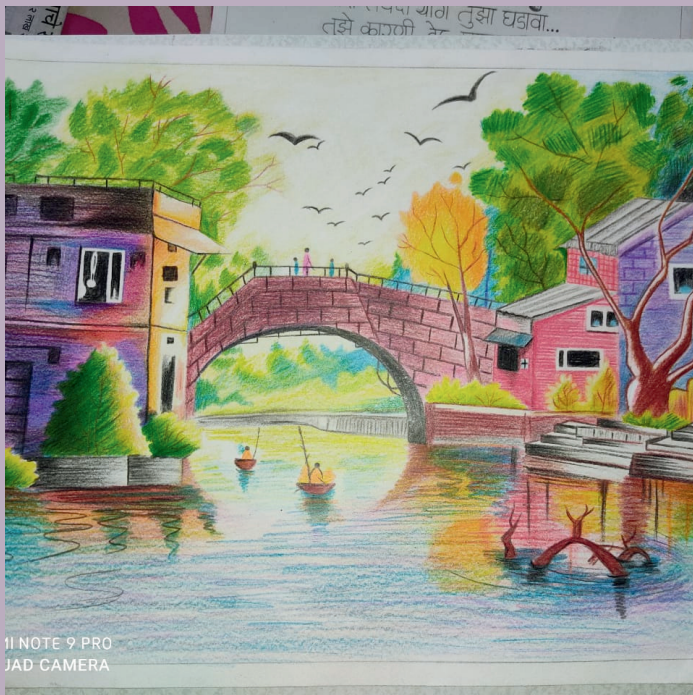
CREATED BY  
SAMIKSHA BIJWE (SE-A)







CREATED BY  
SAMIKSHA BIJWE ( SE-A)







CREATED BY  
SAMIKSHA BIJWE (SE-A)







CREATED BY  
LUZIANA D'MELLO (SE - A)



# ALUMNI SECTION



# Alumni Notes



Dear Agnelites,

Reflecting on my journey at Agnels, I am reminded of the incredible experiences and growth I have undergone during my four years here. The opportunity to share my story is a testament to the contributions I've made and the lessons I've learned along the way.

The foundation of my success at Agnels has been built upon three main pillars: friends, peers, and teachers. These relationships have been instrumental in shaping who I am today. Agnels has provided me with a wealth of valuable lessons, both in academics and extracurricular activities. While there were moments of joy, there were also challenging phases that tested my resilience. Each difficult path was made more navigable thanks to the unwavering support I received from the Agnels community.

With a deep passion for music, Agnels offered me a platform to unite musicians under one roof. From our jamming sessions to live performances, every opportunity was a chance to grow and explore. My leadership skills blossomed as I actively participated in various clubs, learning the importance of teamwork and collaboration.

To my fellow future engineers, I urge you to take risks and embrace the struggles that are an integral part of your growth. Remember, help and support are always available, so make the most of these four years both academically and socially. Forge friendships and create memories that you will cherish in the years to come.

Don't wait for opportunities to come your way; create them!

Be proactive in seeking out experiences and offering help to others when needed.

Elisha Gras

# Alumni Notes



Dear Agenlites:

Firstly, I feel old already because the magazine committee made me write this. I legit passed out of college last year and am just 23 years old. Give me a break, yaar. Anyhow, whoever is reading this is doing well, and you are excited for what's to come next in your life. The four years I spent in Agnells are pretty interesting because two of those years were online due to the pandemic. Breaking this into three significant timelines about my journey and life experiences in Agnells would be ideal.

I joined this college in 2019 and passed out in 2023 with flying colors, woohoo. The first thing I learned due to going to college was about traveling in local trains and just commuting in shared autos. The first year of college was unique because I met so many new people my age. Each of us is from a different background as well. I realized I could either pave my path or live like the rest during my first year.

Due to the pandemic for me, semesters 3,4 & 5 were entirely online, so there weren't many human interactions. Instead, many of us used to find ways to get in touch by using Discord or Google Meet. During Semesters 5 & 6, I was a part of the CSI committee, and it was quite an experience to work with my friends and the teachers who were the leads at the time. I remember very well that during semester six, we were called back to offline lectures, and the first day of college was 14th Feb. Still, I don't know why this was the case, but I'm glad it happened.

If you knew me personally, you would know that during the last two years of my degree, I worked at various internships and freelancing gigs. This was due to the need to follow my passion. I love video games and football a bit too much, so I have made them my stream of work. I am grateful to all my teachers for realizing balancing college and internships was tough. I remember this one interaction with Rakhi Ma'am during my final year. She used to see me working in the lab when everyone would have a half day and go home. She tapped my back, offered me fruits and food, and motivated me to continue my work. My other teachers also knew that I might sometimes submit assignments 1 or 2 days late, and they would be pretty okay with it.

To be blunt here, I wouldn't be the person I am if I didn't come to this college. It helped me realize that there are people who aren't materialistic. Some people want you to grow and get better. Teachers will be ready to guide you to success, but you must be prepared and prepared to listen to them and do as they say. If someone makes you work more, there is a reason why. If they aren't happy with your work, ask them how you can make it better. The friendships I have made here are immortal, in my opinion. We are unique, but we care for each other the same amount. If you wish to take back something from this college, take back the memories and, if possible, go on a vacation with your friends to create more. If you want to know what truly matters during your four years of engineering, it isn't the marks but the memories—every single fest, party, trip & even going to Seawoods. If there is one thing I wish I had done more during college, it was to allow myself to relax and spend more time with my friends. Once you leave college, you start missing your friends a lot, man especially when they leave the city or the country.

I will leave you all with a quote that helps me follow my path without losing my focus;

"Be happy with what you have

Be better at what you can."

Yours Truly,  
Bryan Francis



# DESIGNING AND EDITORIAL TEAM



# TEAM MEMBERS

## Faculty Advisor



**MS. SNEHAL NIKALJE**

## Student Editor-In-Chief



**JOEVITA JOSE THOMAS**

# TEAM MEMBERS

## Editing and Design Team



**IAN THOMAS**



**KOUSTHUBH  
YADAVALLI**



**RIYANKA DEY**