



GLOBAL ACADEMY OF TECHNOLOGY



Accredited by NBA 2022-25

**2023-2024
Volume VIII**

Infinite opportunities.....



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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**Dr.BALAKRISHNA H,B
Principal,GAT**

It is my pleasure in congratulating the editorial board on this pleasant occasion of releasing the newsletter for the period. It is great to find a considerable number of achievements in co curricular and extracurricular activities which certainly prove that our staff and students are adequately equipped and possess necessary skill sets to bring such laurels to the institution. I wish that this number may grow in the years to come. I am sure that publishing a newsletter of this sort containing the achievements of the wards will be recognition to them and I wish them all the very best for future endeavors.



**Dr . Kumarswamy S
HOD,CSE**

I am very glad to announce that our department is successfully releasing the newsletter. Proper communication plays a vital role in the development of a dept. This newsletter will serve to reinforce and allow increased awareness, improved interaction and integration among all of us. It would be a snapshot of the various activities and achievements of CSE GAT.



EDITORIAL

DESK

It gives us immense pleasure to present the Department Newsletter, for the year 2023-2024. This issue explores the hidden talents, commitment, involvement and achievements of the students & staff community of Department of CSE towards their extra and curricular activities to the world. It motivates, enlightens and enables the student & staff community to focus on their goals and achieve more. Thank you for choosing and spending time with this newsletter. We hope, this Newsletter encourages you to conquer more heights in your interests.

Happy Reading!!!



CHINMAYEE SAI



DEEKSHA R HEBBAR



JOANNA NATALIE R



KRISHNAKANTH H PAWAR



MAHIKA R



PRERANA SSESADRI



RAMISETTY VENKAT KOUSHIK



WHAT'S IN ?

2024 NEWSLETTER



About GAT



Student and Faculty Achievements



About CSE Department



Placement Details



Student Forum



**Details of patents
Funded Projects**



Faculty Corner



**Book publications
Paper Publications**



ABOUT GAT

Global Academy of Technology (GAT), established in the year 2001, is one of the most sought-after engineering and management colleges in Rajarajeshwari Nagar, Bengaluru, Karnataka. Located in a sprawling campus of 10-acre land, GAT is a campus ideal for students to hone their academics in an atmosphere of optimism



GAT provides ample opportunities for various co-curricular and extra-curricular activities for the students. The campus brims with more than 3500 students and 300 experienced staff involved in effective Teaching and Learning Process. Academics is supplemented with mentoring, peer learning and counselling to ensure holistic development of students. GAT has academic alliances with various institutions, industries, and research organizations to provide industry perspective to the students

ABOUT DEPARTMENT



COMPUTER SCIENCE

The Department of Computer Science at Global Academy of Technology is focused on disseminating the most updated and sophisticated technical knowledge to the students who enroll in the course. The Department has well experience and quality faculty to guide the students through their academic endeavours

The Department also has excellent classrooms and well equipped laboratories along with a rich collection of books in the department library. We also possess extensive e-learning opportunities the provide students a flexible and seamless learning experience. We also have an efficient Research and Development Centre, Big Data Analytics Lab and an IoT lab in association with CDAC. The department not only offers scope for research and study but also provides ample opportunities for holistic development of our students. Every student is given an exclusive computer system to carryout laboratory work and projects. The department has high speed internet connectivity with Wi-Fi access. The Department also has excellent classrooms and well equipped laboratories along with a rich collection of books in the department library. We also possess extensive e-learning opportunities the provide students a flexible and seamless learning experience. We also have an efficient Research and Development Centre, Big Data Analytics Lab and an IoT lab in association with CDAC. The department not only offers scope for research and study but also provides ample opportunities for holistic development of our students. Every student is given an exclusive computer system to carryout laboratory work and projects. The department has high speed internet connectivity with Wi-Fi access

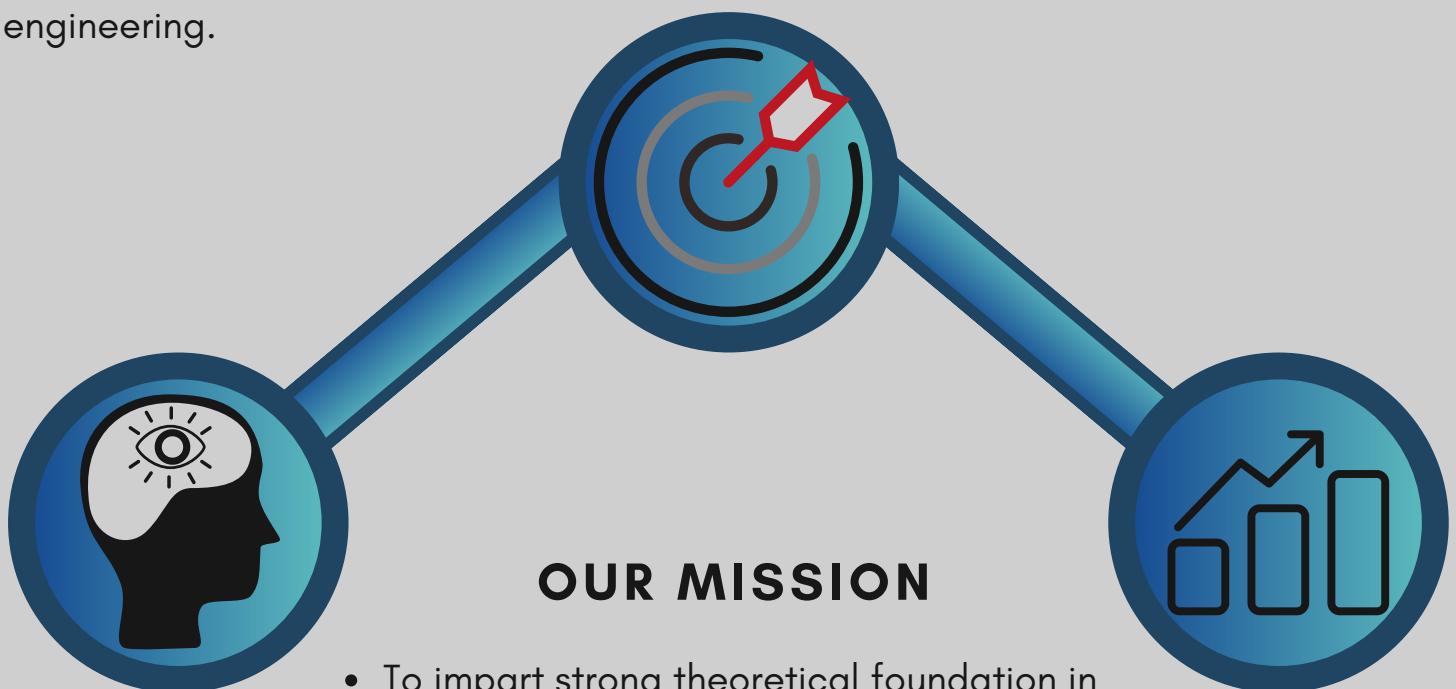
CSE DEPARTMENT

OUR VISION

To achieve academic excellence and strengthen the skills to meet emerging challenges of computer science and engineering.

OUR VALUES

Excellence
Innovation
Integrity
Social Responsibility



OUR MISSION

- To impart strong theoretical foundation in the field of Computer Science and Engineering accompanied with extensive practical skills.
- To inculcate research and innovation spirit through interaction with industry and carry out projects that address societal needs.
- Instill professional ethics and values with concern for environment.

IT VIRTUOSO



HEADS:

- 1.CHAIRMAN-DR.KUMARSWAMY S
 - 2.CONVENER:DR.JYOTHI R
 - 3.CO-CONVENER:PROF.VEENA V PATTANKAR
-

OFFICE BEARERS:

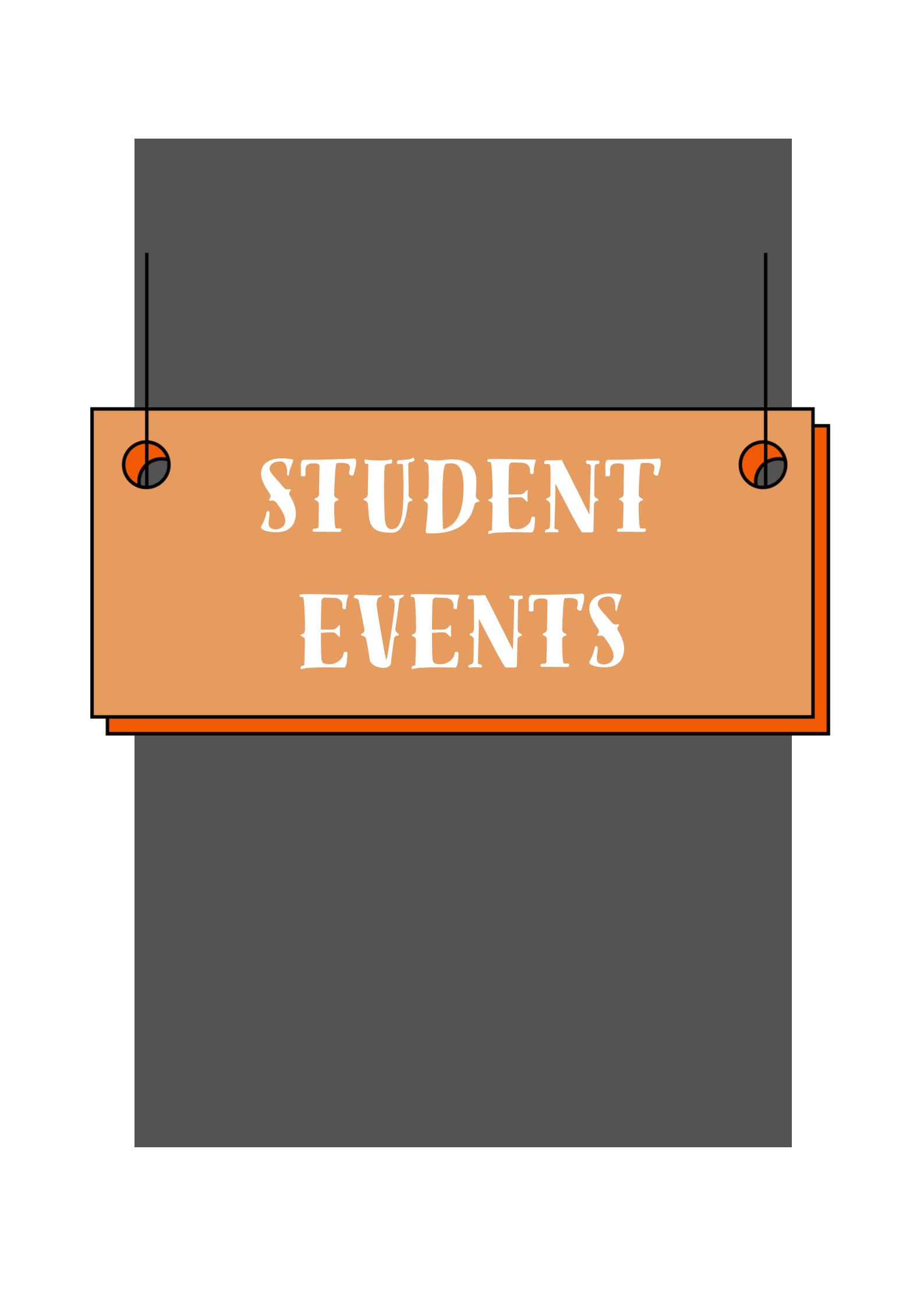
- 1.President-Abhay Surya LR
 - 2.Vice-President-Likith Raj V
 - 3.Secretary-Sinchana V
 - 4.Secretary-Rakshitha M M
 - 5.Treasurer-Rahul L
 - 6.Treasurer-Likith SA
-

COORDINATORS:

- | | |
|-----------------------|---------------------------|
| 1.Bhoomika SA | 14.Shwetha S |
| 2.Sayed Suffiya | 15.Swara Shetty M |
| 3.Rajarajeshwari T | 16.Shivani G |
| 4.Adam | 17.Ramya Bagepalli |
| 5.Lakshmitha Lokesh U | 18.Yashas S |
| 6.Krishna PN | 19.Minnal Rajesh |
| 7.Many S | 20.Sinchana MR |
| 8.Sahana | 21.Govinda Prasad D |
| 9.Ramya Shetty A | 22.Hemanth S |
| 10.Neha YS | 23.Shrimadhu Nagaraj Bhat |
| 11.AR Vaishnavi | 24.Harshitha NK |
| 12.Nidhishree G | 25.Shreya N |
| 13.Punya S | |
-

MEMBERS:

- | | | |
|-----------------------------|----------------------|-----------------|
| 1.ABHISHEK R | 13.D AMOGHA HANDE | 24.PRAKRUTHI KR |
| 2.DHEERAJ | 14.DIYA RAGHAVENDRA | 25.SUCHITH S |
| 3.GK DHANUSH | 15.JOANNA NATALIE | 26.YASHAS GS |
| 4.DEEKSHA R HEBBAR | 16.LIKITHA LINGARAJU | |
| 5.CHINMAYEE SAI | 17.SWATHI KN | |
| 6.HARSHA KUMAR MR | 18.KOMAL PATIL | |
| 7.JNANASHREE R | 19.KUSHI K | |
| 8.KEERTHANA R | 20.SAKSHI BHANDARE | |
| 9.KUSHI R | 21.DEVAMRUTH K | |
| 10.KOTTAPALLI LIKHITH REDDY | 22.JALAJA M | |
| 11.M LAVANYA MINA | 23.NAGAVENI SD | |
| 12.MEGHANA D | | |



STUDENT EVENTS



GENESYS 3.0



The Computer Science Department of Global Academy of Technology proudly hosted Genesys, its Department fest, on the 13th and 14th of March, 2024. This vibrant event was a blend of technical, cultural, non-technical, and sports activities, designed to engage students across various interests and disciplines. The fest witnessed an impressive turnout, fostering a spirit of camaraderie and competition among participants.

Cultural Events



Sports:



Genesys 2024 was a memorable and enriching experience for all involved. It highlighted the talents and collaborative spirit of the students and faculty at the Global Academy of Technology. The successful execution of this fest was a testament to the dedication and hard work of the organizing team, the invaluable support of the mentors, and the generous contributions of the sponsors. Genesys 3.0 not only provided a platform for showcasing talent and creativity but also fostered a sense of community and shared purpose, making it a truly remarkable event.



This conclusion emphasizes the success of the event and acknowledges the key contributions of the faculty coordinators Dr.Kanagavalli R and Dr. Jyothi S and Head of Department Dr. Kumaraswamy.



"HACK-A-LEAGUE 2.0" IN ASSOCIATION WITH INSTITUTION OF ENGINEERING AND TECHNOLOGY(IET)

DATE: 3RD AND 4TH FEBRUARY 2024



The goal of a hackathon was to create functioning software or hardware by the end of the event. Hackathons tend to have a specific focus, which can include the programming language used, the operating system, an application, an API, or the subject and the demographic group of the programmers.

>>> WINNERS <<<

<u>Position</u>	<u>GROUP NAME</u>	<u>Project Title</u>	<u>MEMBERS NAME</u>	<u>COLLEGE NAME</u>
1	Prometheus	Prometheus	TARIQ AKRAM Ayush Bhatt Hanumantha Bharath	Dayananda Sagar Academy of Technology and Management Technical Campus
2	Decode Apocalypse	Women's Safety App	Bhuvan SA Nishith P Shetty Prajwal P Patil Gowtham G	Global Academy of Technology, Bangalore
3	Rip_engines	DCM-Distributed Computing	Sujan Reddy P (1GA20IS134), Yadu Nandan B(1GA20IS161), Tejas K S (1GA20IS144), T N Sai Krishna (1GA20IS140)	Global Academy of Technology, Bangalore



INDUSTRIAL VISITS



**“U R Rao Satellite Centre,
ISRO”**

A one-day Industrial visit to U R Rao Satellite Centre (ISRO - Indian Space Research Organization), Bengaluru, was organized by CSE GAT, Global Academy Of Technology on **7th February 2024**, for 3rd-semester CSE students



“NxtGen, Datacenter”

CSE GAT planned an industrial visit to 5th Semester CSE students of UG course and 1st semester CSE students of PG Course. on **19-3-2024** . Students learnt the operations of a datacenter, how it is managed and divisions of departments in the datacenter. This visit provided an insight of the industrial functioning.

Workshop on Cyber Security and Ethical Hacking



The department held a workshop on "Cybersecurity and Ethical Hacking" with 46 participants. Dr. Jyothi R and Prof. Veena V Pattankar coordinated the event, featuring industry experts Mr. Chirag Suvarna and Mrs. Harshitha.

The two-day workshop covered hands-on cybersecurity techniques and ethical hacking, concluding with positive feedback and certificate distribution. The event was well-received, with participants expressing interest in more such workshops.

MASTER CLASS

Master classes were conducted for the students of Pre-final year by Mrs. Shachi R Yelandur on 9th July 2024.



PLACEMENT AND RECRUITMENT TALK

A talk on placement activity and recruitment process was conducted by SUPEETH YS,CEO of SuprMentr on 27th of June 2024



VIII SEMESTER FAREWELL



June 22nd, 2024



Coordinators who made the event shine

Co-ordinators who made the event shine



Faculty rocking the stage



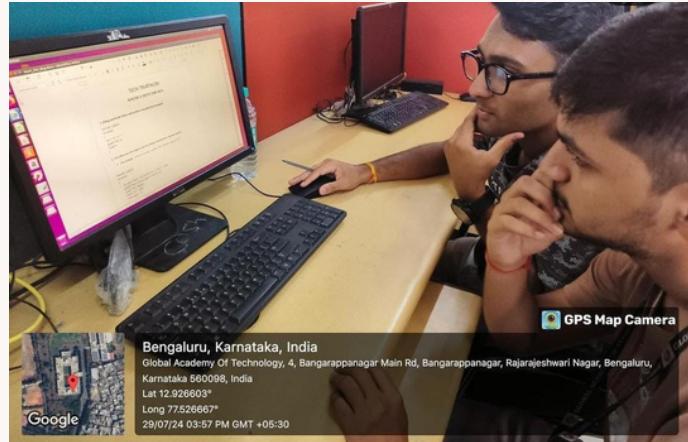
BA BATCH 20-24 CH 20-24

THE MOMENT WHERE WE SAY A DEAR GOODBYE!



TECH TRIATHLON

Tech Triathlon was an Intra-college technical event consisting of 3 intensive rounds-Technical Quiz, Group Discussions and Debugging conducted by the ITV Club on 29th July 2024



IBM Z DATATHON

IBM Z DATATHON-A Global Data Hackathon that can change the game



WINNING TEAM:THE CODE WIZARDS

- 1.ABHAY SURYA LR
- 2.ADITHYA N BHAT
- 3.ARYAN TS
- 4.LIKITH RAJ V
- 5.LIKITH SA
- 6.RAHUL SA

PROJECT:HEART DISEASE PREDICTORS



IET SCHOLARSHIP AWARDS

**Regional Semi Final Round if the IET Scholarship Awards 2024
was organised on 10th August 2024**



AD3X HACKATHON



The 6th semester CSE students won the 3rd Prize (Rs. 30,000) in the prestigious AD3X Hackathon.

The winners are:

- Abhay Surya L R - 1GA21CS006
- Anuj Jadhav - 1GA21CS024
- Bhavya Bhosale - 1GA21CS037
- Likhith Raj V - 1GA21CS080

IEEE CONFERENCE PAPER



Vidyashree R of 6th sem, CSE Department presented the IEEE conference paper titled 'Graph Coloring Approach to Solve Sudoku Problems' at the 18th INDIACOM; 11th 2024 International Conference on Computing for Sustainable Global Development, held at BVICAM (New Delhi) from February 28th to March 1st, 2024, alongside co-author Jeevika B T.

FACULTY CORNER



Women's Day 2024

**Great sportive performance by
our dear faculty!**





A show stealing performance by our CSE Faculty!!!!



3 Days Social Connect Program



The Dept. of CSE organized a 3-Day Social Connect Programme titled "Enlightening Young Minds" for the students of Government Higher Primary School, South 1, Bangarappanagar, from July 29th to 31st, 2024.



Through this program, students gained valuable contributions from college students focused on local development.

The event saw enthusiastic participation from IV and VI Semester CSE students, who volunteered to teach the school students. The school students learned fundamental concepts of MS Office and the Scratch tool.



STUDENT ACHIEVERS

USN	Name	Sem	Event	Place	Date	Participated
1GA20CS141	Srajan M P	8th	Volleyball	Spardha by CMRIT college of Engineering	14/12/2023	2nd prize
1GA21CS037	BHAVYA BHOSALE	5TH	Tech Fusion	Dept of Artificial intelligence and machine learning	24/01/2024	1st prize
1GA22CS044	Chirag g	3rd	Hackthon	College	03/02/2024	RunnerUp
1GA22CS058	Dinesh	3rd	Mind maze	Department of computer science and engineering (AI&ML)	26/02/2024	1st prize
1GA22CS051	Devamruth k	3rd	Mind-maze	Cse department	26/02/2024	1st prize
1GA22CS058	Dinesh	3rd	2.quiz	Computer science and engineering (AI &ML)	26/02/2024	1st prize
1GA21CS141	Shivaraj R L	5th	Short pitch cricket	Genesys	13/03/2024	2nd prize
1GA20CS127	Shaikh Mohammed Taheer	7th	Volleyball	Cmrit	14/12/2024	2nd prize



NPTEL STUDENT ACHIEVERS

Sl.No.	Student USN	Student Name	Name of the NPTEL Course	Certification Type
1	1GA22CS130	Ravi Surya	Cloud Computing	Successfully completed
2	1GA22CS006	Adam Ahmed Yahya	Probability for Computer Science	Successfully completed
3			Programming, Data Structures and Algorithms using Python	Elite
4	1GA20CS098	Prajwal Gowda G	Programming In Java	Elite Silver
5	1GA21CS073	Kallappa shivappa sajjanar	Programming In Java	Successfully completed
6	1GA21CS061	Govinda Prasad D	Business Analytics For Management Decision	Elite Silver
7	1GA21CS081	LIKITH S A	Programming in Modern C++	Successfully completed
8	1GA22CS053	Dhanush M P	Python for DataScience	Successfully completed
9	1GA21CS097	Nagarjun S	Python for DataScience	Elite
10	1GA21CS406	Devika P G	Python for DataScience	Successfully completed
11	1GA22CS156	Shrimadhu	Python for DataScience	Successfully completed



FACULTY ACHIEVERS

Sl.No.	Faculty Name	Name of the NPTEI Course	Certification Type
1	Dr R Kanagavalli	NBA Accreditation and Teaching and Learning in Engineering	Elite Silver
2		Introduction To Industry 4.0 And Industrial Internet Of Things	Elite Silver
3	Dr.Jyothi R	Introduction to Industry 4.0 and Industrial Internet of Things	Elite Silver
4	Dr. Manjula K	Introduction to Industry 4.0 and Industrial Internet of Things	Elite Silver
5		Privacy and Security in Online Social Media	Elite
6	Dr. Jyothi S	Introduction to Internet of Things	Elite Silver
7	Dr. Naveen Kumar C	Introduction To Industry 4.0 And Industrial Internet Of Things	Elite Silver
8	Prof. Veena V Pattankar	Introduction to Industry 4.0 and Industrial Internet of Things	Elite Silver
9		Research Methodology	Elite Silver
10	Prof Sowmya B K	Privacy and Security in Online Social Media	Elite
11		Introduction To Industry 4.0 and Industrial Internet of Things	Elite Silver
12	Nayana Rani S	Introduction to Internet of Things	Elite Silver
13	Yashaswini K	Introduction to Internet of things	Elite Silver
14	Thaseen Taj	Introduction to Internet of things	Elite Silver
15		Computer Networks and Internet Protocol	Elite
16	Shwetha S N	Introduction to Internet of Things	Elite Gold



PLACEMENT DETAILS

AS OF 13/7/2024

S.N	USN	NAME	COMPANY
1	1GA20CS009	AKASH G R	MUSIGMA(5 LAKHS)
2	1GA20CS016	ANSHUMAN GHOSH	Tap Academy
3	1GA20CS017	ARCHANA D NAIK	IBM(4.5 LAKHS)
4	1GA20CS019	ASHISH B	BePractical
5	1GA20CS022	AVIKSHA NAYANA GOWDA	SWIRE DIGITAL (5.29 LAKHS)
6	1GA20CS024	BHARGAV R	Tap Academy
7	1GA20CS028	BHUVANA K S	KNOWLEDGE LENS (5.5 LAKHS)
8	1GA20CS032	CHAITANYA GRAMPUROHIT	HunterGoal(3LAKHS), BePractical
9	1GA20CS035	CHANDAN T D	Tap Academy
10	1GA20CS038	CHIRAG GOENKA	UST TECHNOLOGY (4.25 LAKHS)
11	1GA20CS043	DHARSHINI V	TechMahindra (3.25Lakhs)
12	1GA20CS045	DIVYA R	IBM (4.5 LAKHS)
13	1GA20CS054	H U UJWAL	UST TECHNOLOGY (4.25 LAKHS)
14	1GA20CS060	JEEVAN U M	SWIRE DIGITAL (5.29 LAKHS)
15	1GA20CS065	KEERTHI C	Tap Academy



PLACEMENT DETAILS

AS OF 13/7/2024

S.N	USN	NAME	COMPANY
16	1GA20CS066	KEERTHI RAJU HEGDE	IBM (4.5 LAKHS)
17	1GA20CS069	KRITI SINHA	HunterGoal (3LAKHS)
18	1GA20CS071	MADAN S	JUSPAY(11 LAKHS) , IBM(4.5 LAKHS)
19	1GA20CS072	MADHUMITHA R	SWIRE DIGITAL (5.29 LAKHS)
20	1GA20CS074	MANASA A	BePractical
21	1GA20CS079	MANVITHA SHIVALINGAPPA M P	JUSPAY(11 LAKHS), UST TECHNOLOGY (4.25 LAKHS)
22	1GA20CS081	MOHAMMAD UMAR AL HEJAZI	UST TECHNOLOGY (4.25 LAKHS)
23	1GA20CS083	MONIKA YN	HunterGoal (3LAKHS)
24	1GA20CS086	N DHARSHAN	BePractical
25	1GA20CS089	NISHANT KUMAR THAKUR	TechMahindra (3.25Lakhs), BePractical
26	1GA20CS090	NISHANTH M S	IBM (4.5 LAKHS)
27	1GA20CS091	NITHIN S	IBM (4.5 LAKHS)
28	1GA20CS103	PRIYANKA B	HunterGoal(3LAKHS)
29	1GA20CS108	R VARSHINEE	IBM (4.5 LAKHS)
30	1GA20CS112	RHEA R PILLAI	MPHASIS (6 LAKHS)



PLACEMENT DETAILS

AS OF 13/7/2024

S.N	USN	NAME	COMPANY
31	1GA20CS113	RISHITHA PRASAD	HunterGoal(3LAKHS)
32	1GA20CS114	ROHAN D S	UST TECHNOLOGY (4.25 LAKHS), HIGHER STUDIES
33	1GA20CS115	ROHAN S KABADI	UST TECHNOLOGY (4.25 LAKHS)
34	1GA20CS124	SAIPRIYA P	BePractical
35	1GA20CS134	SHRIRAM NARAYANA BHAT	KNOWLEDGE LENS (5.5 LAKHS), STRATOGENT (3.56 LAKHS)
36	1GA20CS139	SOMISETTY SRIJA	Tap Academy
37	1GA20CS160	VAISHNAVI N	RAPHIELSCAPE (7.6 LAKHS), UST TECHNOLOGIES (4.25), PG(IIT)
38	1GA20CS162	VARSHA M	HunterGoal (3LAKHS)
39	1GA20CS164	VARSHITHA S	MPHASIS(6 LAKHS)
40	1GA20CS178	CHAITRASHREE B	Tap Academy
41	1GA20CS182	PRATHAMESH RAVINDRANATH PATIL	UST TECHNOLOGY (4.25 LAKHS)
42	1GA20CS183	SAMEERA M B	IBM(4.5 LAKHS)
43	1GA20CS185	SWARNA LAXMI M G	IBM(11 LAKHS)
44	1GA20CS188	ROHINI A	IBM(11 LAKHS)
45	1GA21CS407	G CHANDANA	HunterGoal(3LAKHS)



DETAILS OF PATENTS

Patent application no.	Status of Patent	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date	Published / Granted Date
2023410544 85	published	Vanishree M L	System and method for Smart Baggage System using Internet of Things	Girish H Shylaja V Dr. Niranjan V Pushpalatha G Vanishree M L Soumya N G Raghunath B H Ranjeet Kumar Dr. Asha C N Dr. Rajeev Kumar M Nagesh Kumar D N	14.08.2023	01.09.2023
2024410074 97	published	K Ananthapad manabha	Augmented Reality enhanced Human Computer Interaction for Virtual Environment s	Presilla R Asmathunnisa N Dr. Sanjeetha. R Dr. K Ananthapadmanabha Kalpittha S Naik Dr. Sajini G Dr. Rajeshwari S B Dr. Jagadish S Kallimani	03.02.2024	08.03.2024
Design No. 407783-001	published	Dr. Manjula K Sowmya B K Nayana Rani S	AI Based Display Device for Business Management https://search.ipindia.gov.in/DesignSearch/DESIGNSEARCH/Searchability?page=1#	Dr. Santhosh Gangaram Mengal Dr. Manjula K Sowmya B K Nayana Rani S Dr. Parampreet Singh Dr. Vipin Maurya Sanjay S J	16.02.2024	26.04.2024



FUNDED PROJECTS

Name of the faculty	Project Title	Project Type Research/ Consultancy	Funding Agency	Amount	Duration
Dr. Jyothi R	Deep Guard-Precision Aerial Target and Clutter Classification Framework	Research	KSCST	4000	6 months
Veena V Pattankar	Beyond Books: A New Era of Smart Learning with Augmented Reality	Research	KSCST	3500	6 months
Snigdha Sen	Constructing Small Language Models as SME using Minimal Resources	Research	KSCST	4000	6 months





BOOK PUBLICATIONS

NAME OF THE AUTHOR/S	TITLE OF THE BOOK CHAPTER	NAME OF THE BOOK	YEAR OF PUBLICATION	ISBN	DOI	NAME OF THE PUBLISHER	NATIONAL / INTERNATIONAL
Sheela. S, Shalini. S, Adarsh K. V, Amritha. A, Chirag P. I	Vehicular Networks: Multi-Node Deep Self LearningEnabled Channel Acquisition	Futuristic Trends In Network & Communication Technologies Volume 3 Book 2	May 2024 Volume 3, Book 2, Part 1, Chapter 2	978-93-6252-806-3	https://www.doi.org/10.58532/V3BGN_C2P1CH2	IIP Series	International
Sheela. S, Shalini. S, Anushree Vardish, B. R GuruKishan	Revolutionizing Healthcare With 5g Technology	Futuristic Trends In Network & Communication Technologies Volume 3 Book 2	May 2024 Volume 3, Book 2, Part 1, Chapter 3	978-93-6252-806-3	https://www.ipseries.org/assets/doc/upload/rsl20246F7B1B47A0E6F66.pdf	IIP Series	International
Sheela. S, Shalini. S	Prediction Of Cardiac Disabilities In Diabetic Patients	Futuristic Trends In Network & Communication Technologies Volume 3 Book 2	May 2024 Volume 3, Book 4, Part 2, Chapter 2	978-93-6252-892-6	https://www.ipseries.org/assets/doc/upload/rsl20246099562680FA219.pdf	IIP Series	International
Dr. Shalini S, Sheela S, Prathyusha S, Syed Mezan Naimuddin, Akshay D, Vivek N	Satellite And Space Communication	Futuristic Trends In Network & Communication Technologies Volume 3 Book 2	May 2024 Volume 3, Book 4, Part 2, Chapter 8	978-93-6252-892-6	https://www.ipseries.org/assets/doc/upload/rsl202477C3C5C0FA60062.pdf	IIP Series	International



PAPER PUBLICATIONS

International Conferences

1. Srikanth Rao S K, Roshan Joy Martis, "RR Interval-based Atrial Fibrillation Detection using Traditional and Ensemble Machine Learning Algorithms"

Journal of Medical Signals and Sensors, ISSN: 2228-7477, DOI: 10.4103/jmss.jmss_4_22, https://journals.lww.com/jmss/fulltext/2023/13030/rr_interval_based_atrial_fibrillation_detection.6.aspx, Volume 13 | Issue 3, September 2023. (Scopus Indexed Q3, Web of Science)

2. Shrikanth Rao S.K, MaheshKumar H Kolekar, Roshan Joy Martis, "A Deep Learning Approach for Detecting Atrial Fibrillation using RR Intervals of ECG"

Frontiers in Biomedical Technologies, Vol. 11, No. 2 (Spring 2024) 255-264, ISSN: 2345-5829, DOI: <https://doi.org/10.18502/fbt.v11i2.15343>, April 2024 (Scopus Indexed Q3)

3. E Elamaran, S. Murugaveni, S Jyothi, M. Ramkumar Prabhu, M. P. Chitra & Vamsidhar Talasila, "A novel approach of low complexity distributed UA algorithm is used for traffic load balancing and interference in next generation networks"

Optical and Quantum Electronics, ISSN: 1572-817X, Volume 56, article number 525, <https://link.springer.com/journal/11082>, January 2024. (SCIE Indexed, Scopus Indexed Q2, Web of Science)

4. Asisa Kumar Panigrahy, Sudheer Hanumanthakari, Shridhar B. Devamane, Shruti Bhargava Choubey, M. Prasad,D. Somasundaram, N. Kumaresan, N. Arun Vignesh,Gnanasaravanan Subramaniam, Durga Prakash M,Raghunandan Swain, "Analysis of GAA Junction Less NS FET Towards Analog and RF Applications at 30 nm Regime"

Open Journal of Nanotechnology, DOI: 10.1109/OJNANO.2024.3365173, ISSN: 2644-1292, February 2024. (Scopus Indexed Q3, Web of Science)

5. Naveen Kumar Chowdaiah, Annapurna Dammur, "Resource provisioning model for executing realistic workload in heterogenous internet of things environment"

Indonesian Journal of Electrical Engineering and Computer Science, Vol.32, No.1, pp. 318~327, ISSN: 2502-4752, DOI: 10.11591/ijeeecs.v32.i1.pp318-327, October 2023, Institute of Advanced Engineering and Science (Scopus Indexed Q3)



PAPER PUBLICATIONS

International Conferences

- 6. Naveen Kumar Chowdaiah, Annapurna Dammur, "Resource-efficient workload task scheduling for cloud-assisted internet of things environment"**
International Journal of Electrical and Computer Engineering (IJECE), Vol.13, No.5, pp. 5898~5907, ISSN: 2088- 8708, DOI: 10.11591/ijece.v13i5.pp5898-5907, October 2023. (Scopus Indexed Q3)
- 7. Sheela Sadashiviah, Nataraj Kanathur Ramaswamy, "Enhancing V2I and V2V Communication in Vehicular Networks through GSA-BPSO Optimized Neural Network"**
International Journal of Intelligent Engineering and Systems, Vol.16, No.6, ISSN: 2185- 3118, DOI: 10.22266/ijies2023.1231.26, August 2023 (Scopus Indexed Q2)
- 8. Dr. Girish H, Shylaja V, Dr. Vijayalakshmi D, Vanishree M L, Soumya N G, Dr. Anita P, "Design And Validation Of A 32-Bit RISC-V Processor Incorporating Vedic Mathematics"**
Educational Administration: Theory and Practice, ISSN: 2148-2403, 30(5), 12904-12909, DOI: <https://doi.org/10.53555/kuey.v30i5.4465>, Auricle Global Society of Education and Research, May 2024. (Scopus Indexed Q4)
- 9. Haripriya, Prabhudev Jagadeesh M.P, "An Explainable and Optimized Network Intrusion Detection Model using Deep Learning"**
International Journal of Advanced Computer Science and Applications, ISSN: 2156-5570, Volume 15, Issue 1, DOI: 10.14569/IJACSA.2024.0150145, https://thesai.org/Publications/ViewPaper?Volume=15&Issue=1&Code=IJACSA&SerialN_o=45, January 2024 (Scopus Indexed Q3, Web of Science)
- 10. J M Varun Prakash, Ashwini Kodipalli, Trupthi Rao, S Kumaraswamy, "Comparative Study on the Analysis of the Performance of Transfer Learning and the Customized Convolutional Neural Network to Detect Eyewear"**
4 th IEEE Global Conference for Advancement in Technology (GCAT), DOI: 10.1109/GCAT59970.2023.10353502, <https://ieeexplore.ieee.org/document/10353502>, ISBN:979-8-3503-0525-8, December 2023, IEEE. (Scopus Indexed)



PAPER PUBLICATIONS

International Conferences

11. Sujith S R, Ashwini Kodipalli, Trupthi Rao, Kumaraswamy S, Rohini B R, Pushpalatha V, "Categorizing Plant Leaf Disease using Convolutional Neural Network"

International Conference on Network, Multimedia and Information Technology (NMITCON), DOI: 10.1109/NMITCON58196.2023.10275816, <https://ieeexplore.ieee.org/document/10275816>, ISBN:979-8-3503-0082-6, October 2023, IEEE. (Scopus Indexed)

12. Vaishnavi N, Sinchana K, Ashwini Kodipalli, Trupthi Rao, Kumaraswamy S, "Comparative Study of Customized CNN Model and Transfer Learning for Brain Tumor Classification"

International Conference on Network, Multimedia and Information Technology (NMITCON), DOI: 10.1109/NMITCON58196.2023.10276321, <https://ieeexplore.ieee.org/document/10276321>, ISBN:979-8-3503-0082-6, October 2023, IEEE. (Scopus Indexed)

13. Nithin S, Nishanth M S, Ashwini Kodipalli, Trupthi Rao, Kumaraswamy S, "Based on Transfer Learning a Performance Analysis and Comparative Study of CNN for Accurate Plant Disease Detection" International Conference on Network, Multimedia and Information Technology (NMITCON),

DOI: 10.1109/NMITCON58196.2023.10276202,

<https://ieeexplore.ieee.org/document/10276202>, ISBN:979-8-3503-0082-6, October 2023, IEEE. (Scopus Indexed)

14. Madan S, Kishan Shetty, Ashwini Kodipalli, Trupthi Rao, Kumaraswamy S, "Emergency vs Non-Emergency Vehicle Classification: Enhancing Intelligent Traffic Management Systems",

International Conference on Network, Multimedia and Information Technology (NMITCON), DOI: 10.1109/NMITCON58196.2023.10276208, <https://ieeexplore.ieee.org/document/10276208>, ISBN:979-8-3503-0082-6, October 2023, IEEE. (Scopus Indexed)

15. Tejasree S, Varshitha S, Ashwini Kodipalli, Trupthi Rao, Kumaraswamy S, "Comparative Analysis of Customised Neural Network Model and ML Classifiers for Brain Stroke Prediction"

International Conference on Network, Multimedia and Information Technology (NMITCON), DOI: 10.1109/NMITCON58196.2023.10276219, <https://ieeexplore.ieee.org/document/10276219>, ISBN:979-8-3503-0082-6, October 2023, IEEE. (Scopus Indexed)



PAPER PUBLICATIONS

International Conferences

16. Sri Sai Teja M S, Ullas P, Vikas K R, Kumaraswamy S, Ashwini Kodipalli, Trupthi Rao, "Comparative Analysis of Optimizers and Transfer Learning Methods for Headgear Detection Using Convolutional Neural Network" International Conference on Network, Multimedia and Information Technology (NMITCON), DOI:10.1109/NMIT CON58196.2023.10276119, <https://ieeexplore.ieee.org/document/10276119>, ISBN:979-8-3503-0082-6, October 2023, IEEE. (Scopus Indexed)

17. Sindhu B, Prathamesh R P, Sameera M B, KumaraSwamy S, "The Evolution of Large Language Model: Models, Applications and Challenges" International Conference on Current Trends in Advanced Computing (ICCTAC), DOI: 10.1109/ICCTAC61556.2024.10581180, <https://ieeexplore.ieee.org/document/10581180> ISBN:979-8-3503-9580-8, 08 July 2024, IEEE. (Scopus Indexed)

18. Bhagyashri R Hanji, R Kanagavalli, "Machine Learning for the Exposure of Malicious URLs" International Conference on Recent Advances in Information Technology for Sustainable Development (ICRAIS), DOI: 10.1109/ICRAIS59684.2023.10367107, <https://ieeexplore.ieee.org/abstract/document/10367107>, December 2023, IEEE. (Scopus Indexed)

19. Jyothi R, K Janani, R Varshinee, "Implementation of reverse geocoding using Python and C# tools"
Recent Trends in Computational Sciences, Fourth Annual International Conference on Data Science, Machine Learning & Blockchain Technology, <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003363781-35/implementation-reverse-geocoding-using-python-tools-jyothi-janani-varshinee>, ISBN: 9781003363781, February 2024, CRS Press (Scopus Indexed)

20. Jyothi R, Shivani H C, Yashaswi R, Vidyashree, Sumanth R, " Detection of Polycystic Ovary Syndrome (PCOS) Using Machine Learning Techniques"
First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00058, <https://ieeexplore.ieee.org/document/10403567>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)



PAPER PUBLICATIONS

International Conferences

- 21. Dhanvina N, Mahesh N D, Snigdha Sen, "Speech-enabled machine learning-based automated attendance monitoring system through face recognition"** International Conference on Contemporary Computing and Communications (InC4), DOI: 10.1109/InC457730.2023.10263205, <https://ieeexplore.ieee.org/abstract/document/10263205>, September 2023, IEEE. (Scopus Indexed)
- 22. Snigdha Sen, V T Rajashekhar, N Dharshan, "Forecasting and Analysing Time Series Data Using Deep Learning"** Intelligent Systems, Lecture Notes in Networks and Systems", ISBN:978-981-99-3932-9, DOI: https://doi.org/10.1007/978-981-99-3932-9_25, Springer, Singapore, October 2023 (Scopus Indexed)
- 23. Ruchitha H K, Sanjana Sharma B S, Sneha, Trupthi Rao, Shridhar B. Devamane, "Machine Learning Approaches for Stroke Detection and SMOTE for imbalanced Data"**
8th International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA), DOI: https://doi.org/10.1007/978-981-99-7633-1_22, https://link.springer.com/chapter/10.1007/978-981-99-7633-1_22, ISBN: 978- 981-99-7632-4, 07 January 2024, Springer, Singapore. (Scopus Indexed)
- 24. Anagha T S, Asra Fathima, Archana D Naik, Chirag Goenka, Shridhar B. Devamane, Aneesh R Thimmapurmath, "Credit Card Fraud Detection Using Machine Learning Algorithms"**, First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00085, <https://ieeexplore.ieee.org/abstract/document/10403575>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)
- 25. Ananya R Patel, Bhuvana K S, Dhanya R S, D A Akshay, Shridhar B. Devamane, Tushar N, "Machine Learning Based Graduate Admission Prediction"**, First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00072, <https://ieeexplore.ieee.org/abstract/document/10403588>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)



PAPER PUBLICATIONS

International Conferences

- 26. Archana D. Naik, Chirag Goenka, Asra Fathima, Anagha T S, Aneesh R Thimmapurmath, Shridhar B. Devamane, "Analysis of the Security Features of Banknotes to Facilitate Authentication", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00077, <https://ieeexplore.ieee.org/abstract/document/10403596>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)**
- 27. Chandan T D, Dilip J, C M Girishwar Reddy, Bhavana C S, Shridhar B. Devamane, "Performance Analysis of Machine Learning Algorithms for Instagram Post Reach Analysis", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00075, <https://ieeexplore.ieee.org/abstract/document/10403572>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)**
- 28. R Divya, Gaganashree, Shridhar B Devamane, V Dharshini, S Deepika, "Performance Analysis of Machine Learning Algorithms for Password Strength Check", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI:10.1109/CIISCA59740.2023.00071,<https://ieeexplore.ieee.org/abstract/document/10403556>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)**
- 29. K M Manojkumar, Gururaghavendra Gudikoti, J Naveen, Shridhar B. Devamane, G. C Lakshmikantha, "Machine Learning Algorithms for Fake Profile Detection Using Twitter Data", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00082, <https://ieeexplore.ieee.org/abstract/document/10403560>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)**
- 30. J Parnika, Shridhar B Devamane, C N Ramya, M G Swarna Laxmi, "Performance Analysis of Machine Learning Algorithms to Predict Water Potability", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00052, <https://ieeexplore.ieee.org/abstract/document/10403553>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)**



PAPER PUBLICATIONS

International Conferences

31. M G Swarna Laxmi, C N Ramya, Shridhar B. Devamane, J Parnika, "Performance Analysis of Machine Learning Algorithms for Lung Cancer Prediction", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00063, <https://ieeexplore.ieee.org/abstract/document/10403555>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)

32. Chaithanya Dayananda, Hemashree P, Shridhar B. Devamane, Esha Aravind, Impu D, Janavi S, "Text Emotion Detection Using Machine Learning Algorithms", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI:10.1109/CIISCA59740.2023.00065, <https://ieeexplore.ieee.org/abstract/document/10403599>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)

33. Dharshini V, Deepika S, Shridhar B Devamane, Divya R, Gaganashree, "Performance Analysis Machine Learning Algorithms for Stress Detection", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00081, <https://ieeexplore.ieee.org/abstract/document/10403592>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)

34. Jyothi S, Mallikarjunaswamy S, Kavitha M, Narendra Kuma, Sharmila N, Kavya B M, "A machine learning based power load prediction system for smart grid energy management", International Conference on Recent Advances in Science and Engineering Technology (ICRASET), DOI:10.1109/ICRASET59632.2023.10420183, <https://ieeexplore.ieee.org/abstract/document/10420183>, ISBN:979-8-3503-0692-7, February 2024, IEEE (Scopus Indexed)

35. Anasuya N Jadagerimath, Mallikarjunaswamy S, Mahesh Kumar D, Sheela S, Prakash S, Saleem S Tevaramani, "A Machine Learning based Consumer Power Management System using Smart Grid", International Conference on Recent Advances in Science and Engineering Technology (ICRASET), ISBN:979-8-3503-0692-7, DOI: 10.1109/ICRASET59632.2023.10419979, <https://ieeexplore.ieee.org/document/10419979> February 2024, IEEE (Scopus Indexed)



PAPER PUBLICATIONS

International Conferences

36. S Sheela, K B Naveen, N M Basavaraju, D Mahesh Kumar, Modugu Krishnaiah, S Mallikarjunaswamy, "An efficient vehicle to vehicle communication system using intelligent transportation system", International Conference on Recent Advances in Science and Engineering Technology (ICRASET), ISBN:979-8-3503-0692-7, DOI: 10.1109/ICRASET59632.2023.10420043, <https://ieeexplore.ieee.org/document/10420043>, February 2024, IEEE (Scopus Indexed)

37. Ankith S, Darshan G Naidu, Shreesha R Bhat, J N Sai Vamshi, Vanishree M L, "Dactylography Interpretation using Key-Points Detection and LSTM", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00012, <https://ieeexplore.ieee.org/abstract/document/10403606>, ISBN: 979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)

38. Arvind Kumar Bhardwaj, Sameena H S, Piyush Kumar Pareek, Raghavi K Bhujang, Zabiha Khan, "Managing the full Lifecycle of Power Information Systems using HCSOA based LSTM-GRU Model in DevOps practices", International Conference on Integrated Intelligence and Communication Systems (ICIICS), DOI:10.1109/ICIICS59993.2023.10421536, <https://ieeexplore.ieee.org/document/10421536>, ISBN:979-8-3503-1545-5, February 2024, IEEE (Scopus Indexed)

39. Arvind Kumar Bhardwaj, Sameena H S, Piyush Kumar Pareek, Raghavi K Bhujang, Zabiha Khan, "Designing a ARRHHO with MCFSA-CNN based Models for DevOps practices in Software Organizations", International Conference on Integrated Intelligence and Communication Systems (ICIICS), <https://ieeexplore.ieee.org/document/10420955>, DOI: 10.1109/ICIICS59993.2023.10420955, ISBN:979-8-3503-1545-5, February 2024, IEEE (Scopus Indexed)

40. Arvind Kumar Bhardwaj, Sameena H S, Piyush Kumar Pareek, Raghavi K Bhujang, Zabiha Khan, "Hybrid Whale Optimization based Bidirectional Gated Recurrent Unit with Pretrained CNN model for Software Fault Detection", International Conference on Integrated Intelligence and Communication Systems(ICIICS), DOI:10.1109/ICIICS59993.2023.10421718, <https://ieeexplore.ieee.org/document/10421718>, ISBN:979-8-3503-1545-5, February 2024, IEEE (Scopus Indexed)



PAPER PUBLICATIONS

International Conferences

- 41. Veena V Pattankar, Bodela Yuktha Sikhara Sai, Daniya Muzammil, Hassain Ahamed S, "Parkinson's Disease Detection & Self-Stabilizing Spoon with Health Analysis", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00034, <https://ieeexplore.ieee.org/document/10403569>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)**
- 42. Sthuthi B, Sivani J C, Sathyalakshmi S, Kamleshwar Kumar Yadav, "Speak to your Database: Streamlining Human-to-Database Communication with NLP", First International Conference on Computational Intelligence for Information, Security and Communication Applications (CIISCA), DOI: 10.1109/CIISCA59740.2023.00040, <https://ieeexplore.ieee.org/abstract/document/10403595>, ISBN:979-8-3503-3972-7, January 2024, IEEE. (Scopus Indexed)**
- 43. S Shalini, S Sheela, Shabeen Taj, Madhumala R Bagalatti, "Vulnerabilities in Internet of Things and Their Mitigation with SDN and Other Techniques", Secure Communication in Internet of Things, ISBN: 9781003477327, February 2024, CRS Press (Scopus Indexed)**
- 44. K Anitha, H M Manjula, H P Leelavathi, P Swetha, "Automated Traffic Management Using Image Processing", International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS), DOI: 10.1109/ICCAMS60113.2023.10525834, <https://ieeexplore.ieee.org/document/10525834>, ISBN:979-8-3503-1706-0, May 2024, IEEE (Scopus Indexed)**

ARTICLES

FACULTY ARTICLES

Exploration of Augmented Reality and Virtual Reality in Clinical Psychology

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In recent decades, augmented reality (AR) has significantly expanded its applications in clinical and health psychology. This technology has been employed to treat various mental disorders, including phobias, stress-related disorders, depression, eating disorders, and chronic pain. The significance of AR in the mental health field is based on three key concepts:

- A) **AR as an imaginal technology:** It allows individuals to experience a reality that doesn't exist in the external world, making them feel "as if they are" in a different environment.
- B) **AR as an embodied technology:** It provides the experience of feeling one's body within the virtual environment.
- C) **AR as a connectivity technology:** It symbolizes the "end of geography," transcending physical boundaries.

1. Applications of Augmented Reality in Psychological Therapies

Augmented reality (AR) is increasingly used in psychological therapies for conditions such as phobias, anxiety disorders, and depression. It enables the creation of immersive environments where patients can confront their fears in a controlled setting, enhancing exposure therapy [1]. Case studies have shown that AR simulations significantly reduced social anxiety symptoms among college students by allowing them to practice social interactions safely. Additionally, AR tools facilitate self-management and psychoeducation, helping patients visualize coping mechanisms and mood patterns effectively.

2. Uses of Virtual Reality in Exposure Therapy

Virtual reality (VR) has proven effective in exposure therapy, allowing patients to face their fears in controlled virtual environments. Applications include treating specific phobias like fear of flying, public speaking, and claustrophobia. Systematic reviews indicate significant improvement in anxiety symptoms for various phobias when utilizing VR exposure therapy [4] [5]. For example, case studies have demonstrated successful outcomes, such as using VR to simulate flying for individuals with a fear of flying, leading to systematic reductions in anxiety over time.

3. The Role of Virtual Reality in Pain Management

VR plays a substantial role in pain management, providing a non-invasive, drug-free method to reduce pain and anxiety in various clinical settings. Specific applications include chronic pain management, burn wound care, and cancer treatment. Studies have shown that VR can effectively decrease pain intensity during medical procedures and promote relaxation [5][8]. For instance, VR immersion has proven to alleviate discomfort during chemotherapy for children as well as during rehabilitation for burn injuries, indicating VR's potential in improving overall patient outcomes.

4. Enhancing Medical Training with Augmented Reality

AR enhances medical training and education by providing realistic, risk-free environments for students to practice various procedures. Specific applications include surgical training and anatomy education, where AR overlays anatomical models onto instruments or manikins, enabling trainees to simulate operations without the risks associated with live patients [9]. Case studies highlight AR's efficacy in teaching anatomy through interactive 3D visualizations and applications, thus improving understanding and skill development among medical students [5].

5. Virtual Reality in Rehabilitation Therapies

VR has shown significant effectiveness in rehabilitation therapies, especially in neurological conditions such as stroke and Parkinson's disease. Specific applications include enhancing upper limb motor recovery, improving balance, and aiding pain management [13] [14]. Research indicates that VR interventions can lead to better functional outcomes, with patients showing improvements in balance, gait, and overall quality of life compared to traditional rehabilitation therapies [8]. A systematic review confirmed that VR-based rehabilitation effectively promotes motor skills and functional abilities among stroke survivors, showcasing its transformative potential in medical therapy [14]

STUDENT ARTICLES

THE RISE OF SEMICONDUCTOR GIANT NVIDIA CORPORATIONS

DEVAMRUTH K,
1GA22CS051,
4TH SEM 'A' SECTION

Majority of the people working in IT field or having an interest in new software technologies have definitely come across this semiconductor manufacturing company which has stirred by the current software world with it's major advancements in Graphic processing units(GPU's) which are built to speed up graphics-intensive applications such as video games, photo or video editing, 3D rendering and most notably Artificial intelligence and machine learning applications, which are seeing drastic upgrades each year.

Many software enthusiasts remember NVIDIA'S role in the creation of openAI's chatGPT-4 which caused a global sensation last year. As everyone tried this newfound application with a chatbot which can answer almost any kind of question giving accurate solutions.

This helped many developers to create new content which ultimately led to more successful completion of complex projects with time efficacy. This one development led the low-profile chip manufacturing company experience skyrocketing demand for their GPU's after ChatGPT's success. As a fellow gamer myself, I have noticed it hugely help in increase of graphics quality in video games which we gamers tend to enjoy and have a better experience of the video games world and upgrade in VR technological field.

On observing the demand of NVIDIA's products and applications. It has attracted big investors to invest in this AI revolutionary company due to which its stock prices have increased so much that its long-term employees who had their certain amount of salary being paid in company's stocks result in them becoming millionaire's. It has then joined in the list of top 10 most valuable companies in the world. The people and I have accepted that NVIDIA is a company of the future with high potentials to bring big change in AI revolution which would either help humanity in making life simpler to live or bring total destruction to human race if the advancements went unnoticed or uncontrolled. All we know is right now is that NVIDIA has a huge role in the future to play and I do hope its consequences are good.

ARE DEGREES ENOUGH FOR A SUCCESSFUL CAREER?

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“Your education is a dress rehearsal for a life that is yours to lead” is an example of the many quotes that one gets to hear while pursuing their education. But, do all these quotes add up to any amount of motivation to the students, or it just passes over their heads like any other theory concept? This topic should be an important thought in a student’s head while pursuing degree, yet remains mostly untouched. Any degree, from any college, in any field, contributes to the resume of the UG student when he/she graduates. But, is it of any use? What does the student gain in life from the degree he/she has earned? Well, addressing these contexts, a degree is certainly not sufficient if you want a “successful” career. Then, what does your “successful” career demand?

In a world where everything is updated at each second, where nothing is permanent and only the “creamy layer” students shine out bright, a degree student has to gear up to compete/face all of these to live his/her desired life. You may have an excellent degree with outstanding CGPA with all the “textbook” knowledge, but, how much actual knowledge do you possess?

To put it in a simpler way, your batchmates, who are going to sit for placements along with you, may not have an “outstanding” academic report with 9.8 CGPA, but they may bag a much better job with a higher package than yours because their resume has n-number of certifications of various courses, multiple internships, work experiences, etc, which highlights their resume, while yours reads only a bland 9.8 CGPA.

Even if u get placed in a good company with a decent package, you have to strive harder to maintain your position and also to increase your value in the market to keep growing in your career. Else, why would someone choose you over an “experienced”, better-performing candidate! This is something a degree student must give a thought on while preparing for exams/placement drives at college.

Always remember, one is less likely to be successful in an uninterested career path. Hence, it is very important to choose a career path which interests you and increases your curiosity all the time. This helps you to grow exponentially over time and also adds up in increasing your value.

It is the passion towards your work that counts which lands you up in a “successful” career. If any person with a degree would get a job soon after passing out from the college, there would be no value to the positions in the establishments and the students who have actually put in true efforts to achieve their respected positions would get an unfair opinion on life, losing interest or motivation to further put in efforts to give their best. Not only this, but also the students who have not put in much efforts, yet achieved a good position, would have a carefree attitude towards life, taking everything for granted.

In the long run, we would only be approaching a lazier world with unenthusiastic people which may lead to a boring life, followed by changes in the human brain leading to depression, anxiety, anti-socialism, unnecessary rage, impatient behavior, etc. This increases negativity in the world, ultimately leading to destruction!

What can you do to achieve success in your career?

The first thing to keep in mind is that, no time is ever too late to start following the right path. If you have already identified yourself on a wrong path which is leading you nowhere, pat your back, because, this is something many people do not do until they ‘sit on their hands’.

Now that you have taken the first step, explore more and more. The more you explore, the more you experience. This is how you find your interest over a short period of time.

Once you find out where your interest lies, follow that path. If you are only obsessed about something, you will lose interest over a period of time. Hence, wait. Continue in the path only if you are passionate about what you have chosen. Remember, you may be going to contribute in the chosen field for the rest of your work-life. So, take your time.

This is it. Find out about different opportunities in that area of interest and give your best to shine the brightest, and there you will be, having achieved a massive success in your career.

The early you start, the early you can achieve.

(With reference to Engineering UG students:)

Along with your academics, manage your time to take up different courses and make sure to get a certificate on completing it or assessing your knowledge gained. Also participate in more number of internships possible to grow your work-ex and understand the industry work-culture. Research about different companies and their requirements to train yourself from the very beginning. Listen to your professors and seniors about their experiences and knowledge, also be in touch regularly.

All that you give in today, yields a better tomorrow. Hence, go for it and do whatever you can, ethically, to achieve what you aim.

HOW HAS SCIENCE BEEN IMPACTING THE HUMAN RACE?

KISHORE S,
1GA23CS075,
2ND SEM 'A' SECTION

I think that humans are benefitted the most from science. It has granted us the power to vanquish diseases, slay superstitions, live and thrive in space and also to become one of the most successful beings on the planet. It has enabled technologies of the past, present and most likely future too. It is unthinkable to live without scientific knowledge and the applications of it, in the present world. In the archaic times humans did not have enough knowledge to understand the some of the natural phenomena hence they believed that they were a result of divine intervention and made sacrifices. For example- Deaths due to diseases were thought to be the result of God's rage, in civilizations like Aztec, Mayans and Egypt, people sacrificed humans and animals to impress the divine. And with time such things evolved into superstitions that still continue to haunt the human race. Things like alchemy and fortune telling-prevailed heavily during the ancient and medieval times, and people used to believe them because they lacked the understanding of how and why things happen, causing them to lose control over their lives, they abandoned everything in hopes that the fortune teller could grant them a better future, this practice still exists in the present, but to a lesser extent. I do not blame them for it, since the scientific knowledge was centralized and, in some regions, learning and popularizing scientific methods was against the social order. But the presence of these practices made the need of science stronger. During the same time scientists were emerging and were also ready to go against the religion to seek the truth and knowledge. Hence the science was standardized and practiced in a more systematic way. This led to an increase in the rate of discoveries and inventions leading to more applications and better technology. The essence is that the methods of science also evolved with time hence it kept up with the changing trends. Today we no longer have to pick a card to find out when the next eclipse is going to occur or rely on a spell to cure disease and injury, because we have scientific equations and medicines to deal with them. Science has not just made our lives longer, but has also enhanced the quality of our lives. The scientific understanding has also made the people to question the old regimes and to grow out of them. It has led to abolition of racism since there is no evidence that one tone is superior over the other.

We are able to predict the next mass extinction event, invent new protein structures, increase human life span, engineer better varieties of crops and infrastructures, find new energy sources and explore possibilities of life beyond the earth. I do agree that it has also caused deaths. Development of weapons, nukes and chemical warfare, global warming, pollution, over population are some examples, but the benefits heavily outweigh the damage and we will eventually overcome them. Scientific methods have allowed us to optimize the process of doing tasks, technologies like computation and Artificial Intelligence have changed the industries, they have enabled us to perform calculations that would take an entire human life in seconds with little effort. But in recent times youth seem to be less interested in science because of the way it has been presented to them. In 19th and 20th century people were willing to learn science because there was a need to and they did it not in classrooms but in laboratories and workshops, in today's date science is so theoretical and complex that students are daunted by it. I think instead of letting them to read the same statement 100 times, it is better to teach them by disassembling the parts, it is possible to teach them through simulations, where students can learn practically without having to worry about safety. It has been employed in training pilots and sportsmen then surely it is also possible to employ it to teach engineers and doctors. I feel that this is a better long -term investment since it is easier to create a simulation of an atom collider than a real one. More over it makes knowledge more accessible to the public. Human brain cannot distinguish between simulations and reality hence we can use that to our advantage, we can train people for most of the possibilities. This would also increase the practical knowledge and allow us to reduce the number of redundant students in the industry. I also think that students should be taught about the scientific methods and the applications, this would make them appreciate it even more. They should not be bound to one field since knowledge in any field could be applied in a different field. It would also help us to eradicate hunger and poverty. In essence I think science is as essential as food, water and shelter in current world. It has the power to change the present and shape future, and we must encourage students to learn science, question it with healthy skepticism. I acknowledge that these lines are not enough to successfully explain how human race is affected by science and it's applications. And I hope that our race will continue to thrive and uncover the truths of universe while also using the power of science responsibly.

VISUAL WRITING/SHORT STORY

THE MESSIAH

DEVAMRUTH K,
1GA22CS051,
4TH SEM 'A' SECTION



A great legion of hungry crows encircled the dark clouds which cast black dread of lighting on the dharvi slum region, the atmosphere around this place was always a constant disdain because of its land and people. Most people of the state living outside the dharvi slum region had much pity on them, while others looked down on these people as uncultured and unhygienic. The homeless and the less fortunate people with minimum amount of money to live off were pushed and cramped up in these regions by the state's reorganisation plan which came into effect almost sixty years ago.

These regions contained unfertile land which were unfit for agricultural purposes and rocky hills where no real estate could be developed. The state's ministers thought during the reorganisation plan that these barren land are to be allocated to the poor working class people as it would be in the interest of other major cities and town's and be easier for them to filter them and make way upper class to live in luxury and peace, not fearing any violence from the lower class to affect them in any way. Bhavesh was tall school boy of 16 years, he never liked sitting in an idle position for long, he loved playing all types of gully sports at his run-down government school with his close friends. He was an introverted person, he always had been a listener and more of an observer, he always had an interest in observing the process of change. Change in his surroundings, change in his athletics and notably change in people's mindset. He always found these things amusing. That day the school let children off to home by afternoon, Bhavesh trailed to his cottage home with his close friends. He could see people gather in large numbers who were all shouting with big posters in their hands in anticipation of the coming of "MESSIAH" whom the people referred to for their beloved politician. Bhavesh's friends talked about their region's beloved politician as their hero who everyone admires so much because of his charisma and his way of connecting with the local people. He always had a way with words, he made promises with the people to take them out of this miserable land and re-connect them with a better society which would not be ruined in run-down building, unemployment, diseases and zero concern for human life.

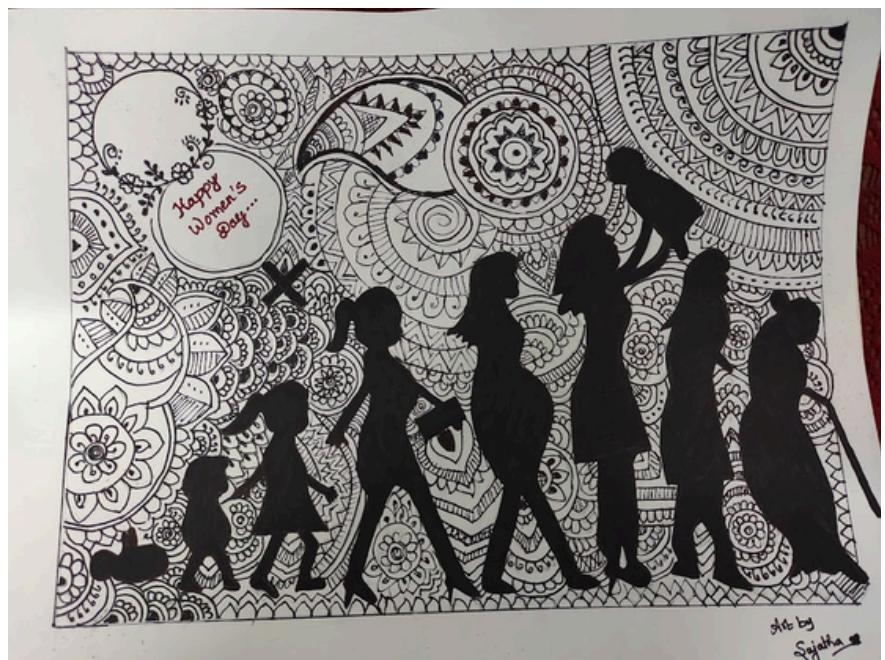
Bhavesh and his friends always dreamed of living in that environment promised by “THE MESSIAH”, they always had a mindset for growth and lead a peaceful life. Although their life path was chosen by their parents long before they were even born, They had to join their fathers to work in coal mine after reaching adulthood and work tirelessly from day till dawn each day for the rest of their life. Bhavesh and his friends in high enthusiasm swirled through the huge crowd gathered at the market place trying to catch a glimpse of their politician. After a long time of waiting, the politician made a heroic entry in his luxury car where people were people were pushed off from even touching the automobile with their hands. He made his way to the grand stage and gave the hopeful speech to the people, who were all delighted to witness him. He gave long speeches around the fact that by next week people are going to be vacating their house for a better place. People started to shout and cry in happiness as the promised day was arriving soon. “MESSIAH” “MESSIAH..” chants were heard all around the market place and people praising for his long life, they had him surrounded and were keen to shake his hands as they looked upon him in glory, they long expected for someone to come and end their misery of suffering forever. Bhavesh and his friends were hopping around in pleasure and going around the town informing the elderly the better days are about to come.

It almost midnight, many people had left the market place to go and rest after a long day of speeches and their uncontrolled excitement. Bhavesh looked for the politician hoping he could meet him for one last time before he departs. He stumbles down a vanity van and entered the private quarters of the politician, Where he observes him having a meeting with men in suits. He eavesdrops them talking about the deal where an conglomerate of businessmen have just won the rights for the barren land. It was then revealed in the conversation that new natural resources were found underground which were of valuable cost. They didn't want people knowing this as they would not give up their rich resource filled land. They had plotted with the politician to encroach this land with minimal spending and low moving rates. They partied for their successful accomplishment in their evil plot which sailed smoothly for them. Bhavesh could not believe the words he heard and the obvious plot where the whole region's people have been fooled to a great extent. He whispered in low breath, "you are a false messiah" and finalized his judgement on these evil men. He made sounding decision to spread this news to everyone before its too late. He was then caught by the bodyguards trying to flee, they dragged him to basement of the house, where the businessmen and the politician gathered to see the person who tried to flee with their secrete. They laughed upon the young boy's situation when he threatened them to expose their plot and bring them to justice. They left with smiles and small giggles on their face while the young boy was being silenced forever.

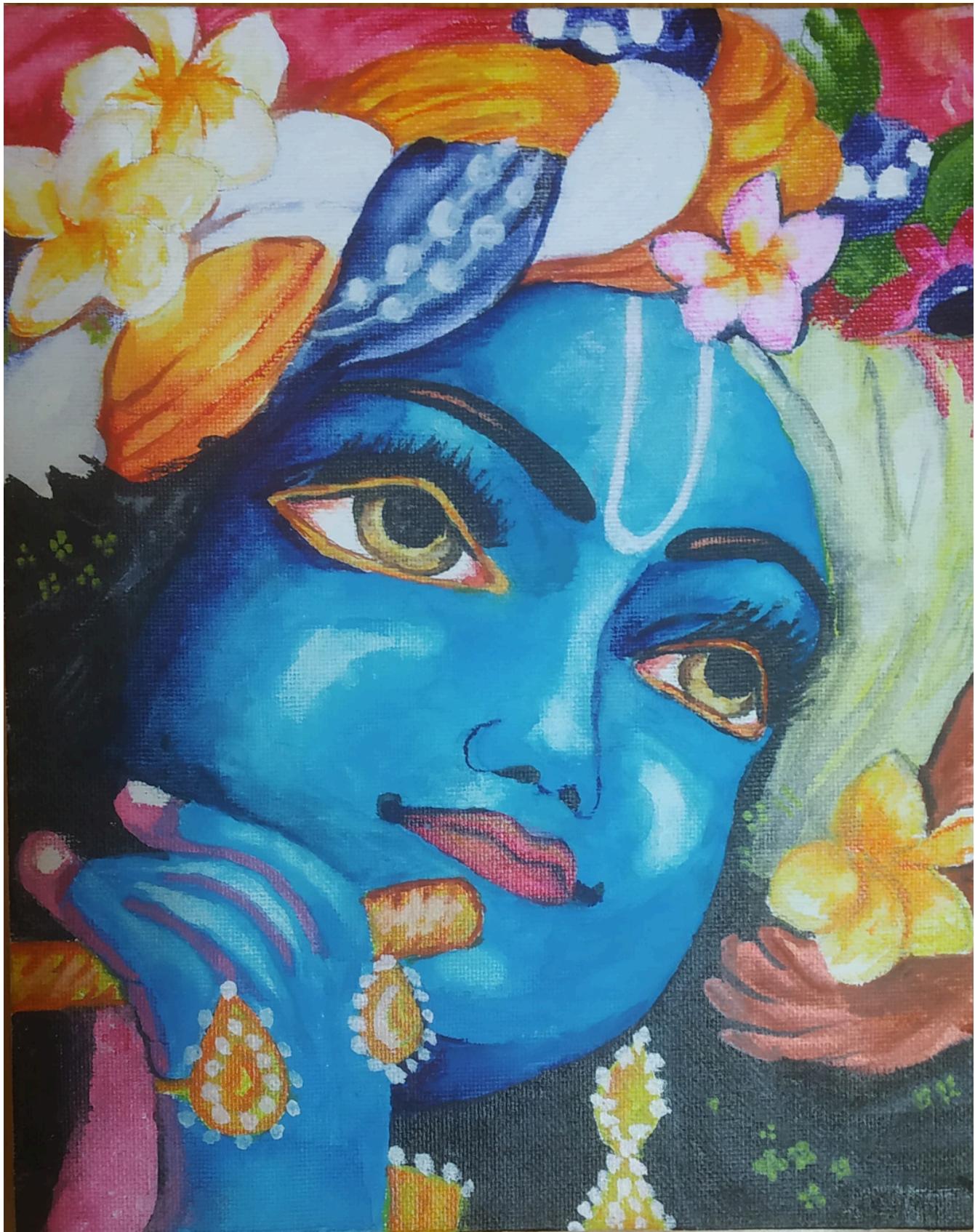
ARTS

FACULTY ARTS

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STUDENT ARTS- PAINTING/SKETCHING



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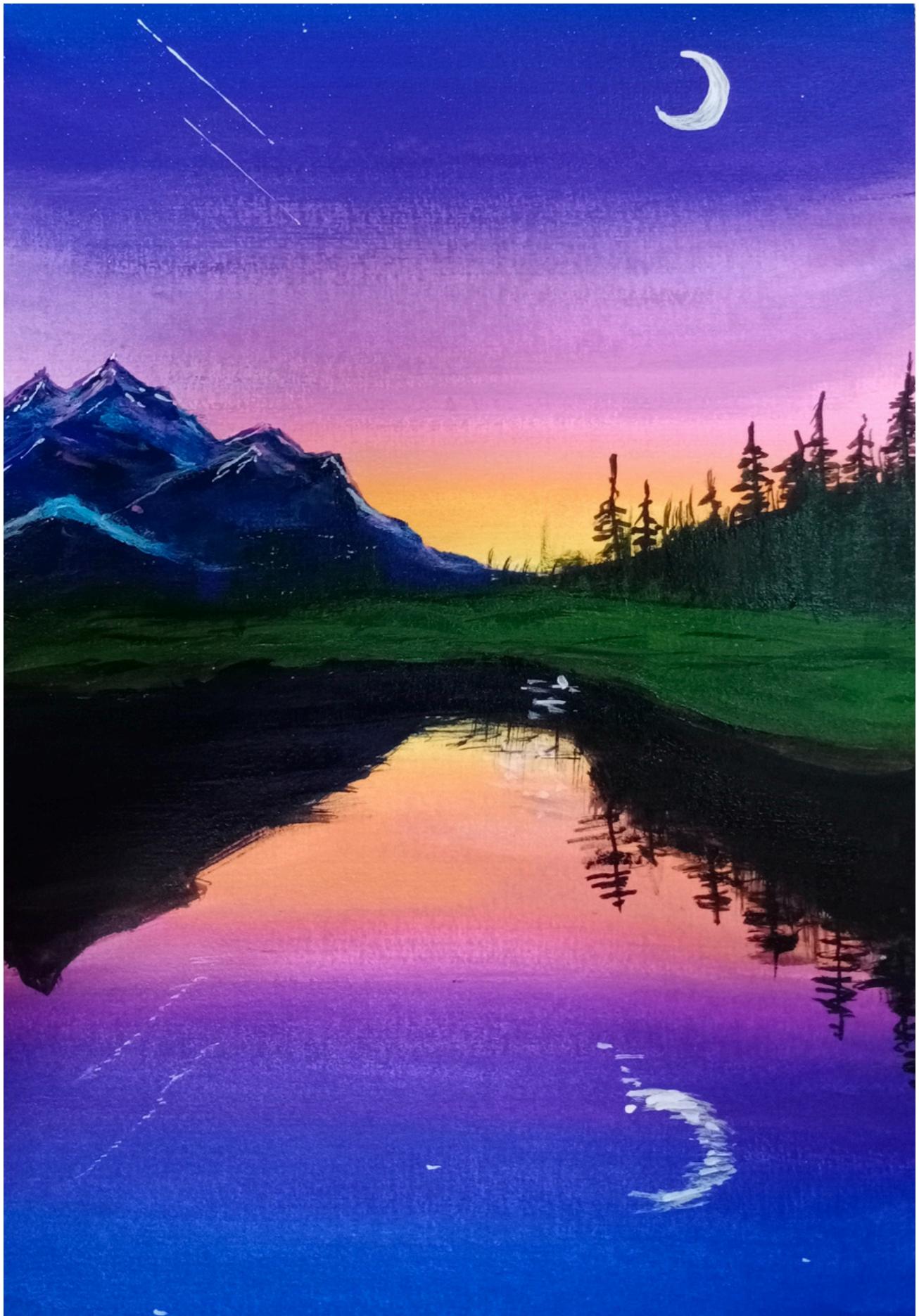


Rakshitha

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STUDENT ARTS- POETRY

WHO ARE THESE WOMEN?

NIVEDITHA KU,
1GA23CS113,
2ND SEM 'C' SECTION



Many eyes were unhappy which were cruel,
My birth was same as,
A trout escaped from a fisherman

My early years were exquisitely beautiful.
But later on it was like,
Soft green stem turning into dark hard bark.
I was barely sent to school.

The darkest nights came all the way,
Worked as farmhand in farm owner's fields,
Daily wages were taken away and saved for
coming hard times,
I was overjoyed when dhanis's daughter gave
her worn clothes,
I saved these clothes to wear during festivals

With all my low confidence,
Holding the title of dumbness,
A unknown man tied knot to me,
Where I didn't even get a chance to disagree.

My in- laws made me as a maid of all work,
It was too hard to accept,
Because this lowered my self respect.

But do you think I was all this kind my whole life?
No!

I realised that I lived as a jerk my whole life,
Never again I let my sisters to live as me,
Bitterly there are in thousands who are suffering,
But I promise there will be a light at the end of the tunnel

Yes! I am the one among these RURAL women.....

PURSUIT

We have a pursuit in our life,
The pursuit is addicting to chase,
It is promising and warm,
But it is bound to cause harm.

It is beautiful and my desire,
Will I ever chase it till the end?
It is my reason to live,
For it, we will go blind.

The pursuit is pure and heavenly,
It grants me power to change the world,
For it I have to change myself evenly,
Else it will keep drifting away from me,

We have a pursuit in our life,
Stomped down by the hindering world,
For it, I will have to fight,
I don't know when will it end...

I lost all of my so-called friends,
But they were nothing but dead weights,
They were just frenemies,
Now I lost them, for they are enemies.

It's been decades,

I had a pursuit in the past,
Which I thought was very noble,
But I achieved it regardless,
For now, I sit in a dark room of books,
Lost everything and conquered the destiny,
But there is no one to talk to; for I have lost them,
Still bound by laws,
Particles are united,
Will it ever end?

She is my mother, my creator, my august friend;
We are together forever,
I have the desire to hug her;
I also want to see her in her glory,
In the end she too will fade,
It would be too late for me to say goodbye.
And our tale would be lost forever.

Now I wonder if I could change,
The past, to hack my way through;
But the present is a gift from physics,
... We are bound by him and can't reject it.
In the end I will return to them.
In eternal peace and silence,
We slumber.

Everyone has forgot, but she remembered;

Others might think who is she,
She is the universe herself
And we craved to get a glimpse of her through science,
It was the pursuit all along.

KISHORE S,
1GA23CS075,
2ND SEM 'A' SECTION



GROWING AHEAD OF TIME

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