



GLOBAL ACADEMY OF TECHNOLOGY

TECH TIMES

Infinite opportunities.....

Accredited by NBA 2022-25

2023-2024
Volume VIII



DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

Contact Us

 www.gat.ac.in



+918028603158 (Ext- 300)



hodcse@gat.ac.in



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, Dept of 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 Dept.



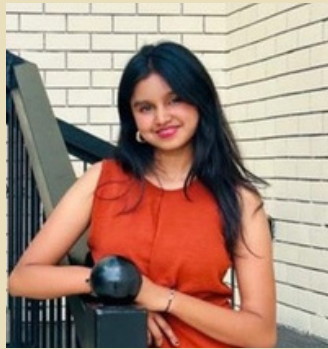
Message from Editors

Greetings!

We are delighted to present to you the CSE Department Newsletter - TECH TIMES for the academic year 2023-2024. This edition showcases the remarkable talents, dedication, and accomplishments of our students and faculty, highlighting their contributions to both academic and extracurricular pursuits. We aim to inspire, inform, and empower our community, encouraging each of you to strive for excellence and reach new heights in your endeavors. We appreciate your time and interest in this newsletter and hope it fuels your passion for learning and growth. Happy Reading!



Prof. R C Ravindranath
Assistant Professor



Chinmayee Sai
1GA22CS042



Deeksha R Hebbar
1GA22CS048



Joanna Natalie R
1GA22CS080



Krishnakanth H Pawar
1GA22CS088



Mahika R
1GA22CS098



Prerana Sseshadri
1GA22CS122



WHAT'S IN ?

2024 NEWSLETTER



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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 amount of opportunities for various 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



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.

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



- 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.
- In still professional ethics and values with concern for environment.

IT VIRTUOSO

STUDENT FORUM



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

HEADS

- 1.CHAIRMAN: Dr. KUMARSWAMY S
- 2.CONVENER: Dr. JYOTHI R
- 3.Co-CONVENER: Prof. VEENA V PATTANKAR

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

STUDENT CORNER

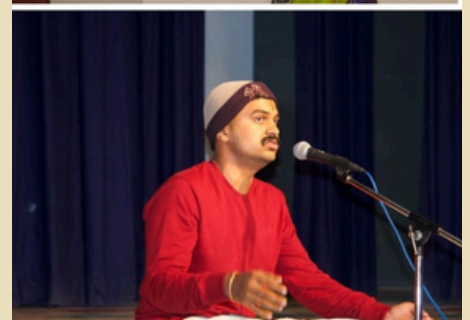
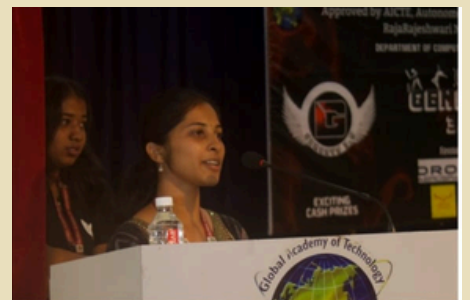


GENESYS 3.0 DEPARTMENT FEST



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 Head of Department Dr. Kumaraswamy and faculty coordinators Dr.Kanagavalli R and Dr. Jyothi S and

HACK-A LEAGUE(HAL) 2.0

In association with Institution of Engineering and Technology(IET)

The goal of the hackathon was to create functioning software or hardware by the end of the event. Hackathon had 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 OF HAL 2.0

Prize	Institute Name	Project Title	Team Members
1	Dayananda Sagar Academy of Technology and Management	Prometheus	Tariq Akram, Ayush Bhat, Hanumantha Bharat
2	Global Academy of Technology	Women's Safety Application	Bhuvan S A, Nishith P Patil, Prajwal P Patil , Gowtham G
3	Global Academy of Technology	Distributed Computing	Sujan Reddy P, Yadu Nandan B, Tejas K S, T N Sai Krishna



AD3X HACKATHON WINNERS



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.

WORKSHOP ON CYBER SECURITY & 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

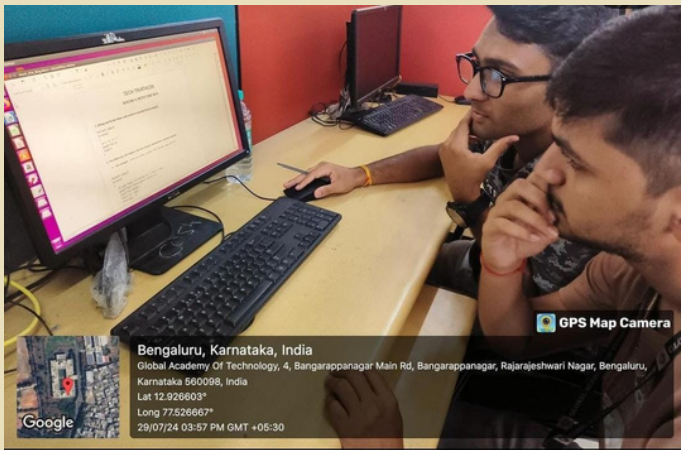
Master classes was conducted for the students of Pre-final year by Mrs.Shachi R Yelandur on 9th July 2024.



TECH TRIATHLON

By IT Virtuoso

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



IBM Z DATATHON

WINNERS - CSE Dept

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

PROJECT:HEART DISEASE PREDICTORS
WINNING TEAM:THE CODE WIZARDS



1. Abhay Surya L.R
2. Adithya N Bhat
3. Aryan T.S
4. Likith Raj V
5. Likith S.A
6. Rahul S.A



SOCIAL CONNECT PROGRAMME



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.

INDUSTRIAL VISITS

U.R Rao Satellite Centre, ISRO



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

NxtGen Datacenter



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

PLACEMENT & RECRUITMENT TALK

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



IET SCHOLARSHIP AWARDS

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



VIII SEM FAREWELL



June 22nd, 2024



Coordinators who made the event shine



Faculty rocking the stage



A Magical Moment where our beloved seniors had to leave the place which taught them LIFE in a theme called FRIENDS

BATCH 2020-24

THE MOMENT WHERE WE SAY A DEAR GOODBYE!





VTU B.E. Honors

SL.NO.	USN	STUDENT NAME	CGPA	TOTAL CREDIT	COURSE TITLE
1	1GA20CS023	BHARATH R	9.1	25	Google Cloud Computing Foundations
					Statistical Learning for Reliability Analysis
					Hardware Modeling Using Verilog
					Discrete Structures
					Introduction To Haskell Programming
					Data Science for Engineers
					Introduction to Machine Learning - 12 weeks
					Introduction To Industry 4.0 And Industrial Internet Of Thing
					Getting Started with Competitive Programming
					Technical English For Engineers
2	1GA20CS054	H U UJWAL	9.47	22	Google Cloud Computing Foundations
					Hardware Modeling Using Verilog
					Introduction to Haskell Programming
					Statistical Learning for Reliability Analysis
					Introduction To Industry 4.0 And Industrial Internet Of Things
					Getting Started With Competitive Programming
					Introduction To Machine Learning
					Data Science For Engineers
					Introduction to Research (Research Methodology)
3	1GA20CS055	HEMASHREE P	9.23	23	Cloud Computing and Distributed Systems
					Introduction to Industry 4.0 and Industrial Internet of Things
					Affective Computing
					Data Science for Engineers
					Design and Implementation of Human-Computer Interfaces
					Cyber Security and Privacy
					Google Cloud Computing Foundations
					Artificial Intelligence Search Methods For Problem Solving
					Programming, Data Structures And Algorithms Using Python



VTU B.E. Honors

SL.NO.	USN	STUDENT NAME	CGPA	TOTAL CREDIT	COURSE TITLE
4	1GA20CS068	KISHAN SHETTY	8.9	25	Reinforcement Learning
					Natural Language Processing
					Introduction to Algorithms and Analysis
					Data Science for Engineers
					Ethical Hacking
					Design & Implementation of Human-Computer Interfaces
					Google Cloud Computing Foundations
					Getting Started with Competitive Programming
					Introduction To Industry 4.0 And Industrial Internet Of Things
5	1GA20CS071	MADAN S	9.77	28	Design & Implementation of Human-Computer Interfaces
					Data Science for Engineers
					Reinforcement Learning
					Natural Language Processing
					Ethical Hacking
					Introduction to Algorithms and Analysis
					Getting Started with Competitive Programming
					Introduction To Industry 4.0 And Industrial Internet Of Things
					Introduction to Machine Learning
6	1GA20CS081	MOHAMMAD UMAR AL HEJAZI	9.5	18	Google Cloud Computing Foundations
					Cyber Security and Privacy
					Social Network Analysis
					Blockchain and its Applications
					Getting Started with Competitive Programming
					Programming in JAVA
7	1GA20CS086	N DHARSHAN	9.52	22	Introduction to Machine Learning
					Data Science For Engineers
					Google Cloud Computing Foundations
					Statistical Learning For Reliability Analysis
					Blockchain and its Applications
					Social Networks
					Design & Implementation Of Human-Computer Interfaces
					Natural Language Processing
					Introduction To Industry 4.0 And Industrial Internet Of Things



VTU B.E. Honors

SL.NO.	USN	STUDENT NAME	CGPA	TOTAL CREDIT	COURSE TITLE
8	1GA20CS087	NANDAN RAJEEV SHETTY	9.41	21	Python for Data Science
					Google Cloud Computing Foundations
					Cyber Security and Privacy
					Social Network Analysis
					Blockchain and its Applications
					Programming In Java
					Introduction to Machine Learning
					Getting Started with Competitive Programming
9	1GA20CS091	NITHIN S	9.7	24	Ethical Hacking
					Data Science for Engineers
					Introduction to Algorithms and Analysis
					Google Cloud Computing Foundations
					Getting Started with Competitive Programming
					Introduction To Haskell Programming
					Introduction To Industry 4.0 And Industrial Internet Of Things
					Natural Language Processing
10	1GA20CS131	SHASHANKA	9.19	18	Introduction to Machine Learning
					Reinforcement Learning
					Privacy and Security in Online Social Media
					Cyber Security and Privacy
					Introduction to Industry 4.0 and Industrial Internet of Things
					Programming in Java
11	1GA20CS137	SINCHANA S	9.31	19	Introduction to machine Learning
					Foundation of cloud IoT edge ML
					Privacy and Security in Online Social Media
					Cyber Security and Privacy
					Introduction to Industry 4.0 and Industrial Internet of Things
					Natural Language Processing
					Introduction to machine learning
					Google Cloud Computing Foundations



VTU B.E. Honors

SL.NO.	USN	STUDENT NAME	CGPA	TOTAL CREDIT	COURSE TITLE
12	1GA20CS169	VINAY K	9.14	24	Privacy and Security in Online Social Media
					Cyber Security and Privacy
					Introduction to Industry 4.0 and Industrial Internet of Things
					Programming in Java
					Introduction to machine Learning
					Cloud Computing
					Getting Started With Competitive Programming
					Natural Language Processing
13	1GA20CS173	YOGITHA P	9.34	19	Privacy and Security in Online Social Media
					Foundation of Cloud IoT Edge ML
					Introduction to Industry 4.0 and Industrial Internet of Things
					Cyber Security and Privacy
					Google Cloud Computing Foundations
					Introduction to Machine Learning
					Natural Language Processing
14	1GA20CS182	PRATHAMESH RAVINDRANATH PATIL	9.32	19	Introduction to Soft Computing
					Systems and Usable Security
					Blockchain and its Application
					Ethical Hacking
					Data Science for Engineers
					Natural Language Processing
					Google Cloud Computing Foundations
					Introduction to industry 4.0 and Industry Internet of Things



VTU B.E. Honors

SL.NO.	USN	STUDENT NAME	CGPA	TOTAL CREDIT	COURSE TITLE
15	1GA20CS192	ESHA ARAVIND	9.06	21	Cloud Computing and Distributed Systems
					Introduction to Industry 4.0 and Industrial Internet of Things
					Affective Computing
					Data Science for Engineers
					Design & Implementation of Human-Computer Interfaces
					Artificial Intelligence Search Methods For Problem Solving
					Programming, Data Structures And Algorithms Using Python
					The Joy of Computing using Python
16	1GA20IS063	KEERTHANA P M	9.02	19	Introduction to Soft Computing
					Privacy and Security in Online Social Media
					Object Oriented System Development using UML, Java and Patterns
					Data Science for Engineers
					Introduction to Industry 4.0 And Industrial Internet of Things
					Getting started with Competitive Programming
					Natural Language Processing



PLACEMENT DETAILS

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

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

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), STRATOAGENT (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)



NPTEL STUDENT ACHIEVERS

S.N	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
			Programming,Data Structures and Algorithms using Python	Elite
3	1GA20CS098	PRAJWAL GOWDA G	Programming In Java	Elite Silver
4	1GA21CS073	KALLAPPA SHIVAPPA SAJJANAR	Programming In Java	Successfully completed
5	1GA21CS061	GOVINDA PRASAD D	Business Analytics For Management Decision	Elite Silver
6	1GA21CS081	LIKITH S A	Programming in Modern C++	Successfully completed
7	1GA22CS053	DHANUSH M P	Python for DataScience	Successfully completed
8	1GA21CS097	NAGARJUN S	Python for DataScience	Elite
9	1GA21CS406	DEVIKA P G	Python for DataScience	Successfully completed
10	1GA22CS156	SHRIMADHU	Python for DataScience	Successfully completed



SWAYAM NPTEL STARS

S.N	ROLL NUMBER	NAME	CATEGORY	TIMELINE
1	NPTELSS22302100606	KISHAN SHETTY	NPTEL_BELIEVERS	Jul-Dec 2023
2	NPTELSS22302100640	MADAN S	NPTEL_BELIEVERS	Jul-Dec 2023
3	NPTELSS22302100724	N DHARSHAN	NPTEL_BELIEVERS	Jul-Dec 2023
4	NPTELSS22302101083	H U UJWAL	NPTEL_BELIEVERS	Jul-Dec 2023
5	NPTELSS22304101317	HEMASHREE P	NPTEL_MOTIVATED_LEARNERS	Jul-Dec 2023
6	NPTELSS22303101934	PRATHAMESH PATIL	NPTEL_ENTHUSIASTS	Jul-Dec 2023
7	NPTELSS22306102317	BHARATH R	NPTEL_DISCIPLINE_STARS	Jul-Dec 2023
8	NPTELSS22306102699	MADAN S	NPTEL_DISCIPLINE_STARS	Jul-Dec 2023
9	NPTELSS22306102914	YOGITHA P	NPTEL_DISCIPLINE_STARS	Jul-Dec 2023
10	NPTELSS22306103233	TARUN R S	NPTEL_DISCIPLINE_STARS	Jul-Dec 2023
11	NPTELSS1240104309	ADAM AHMED YAHYA	NPTEL_DISCIPLINE_STARS	Jan-Apr 2024



NCC Cadets

S.N	STUDENT NAME	USN
1	Puneeth M	1GA22CS123
2	S.Sai Shreyas	1GA22CS132
3	Prakruthi K.R	1GA22CS120
4	Nikita Chavan	1GA23CS111
5	Deepa M.J	1GA23CS035
6	Vatsalya V	1GA23CS190
7	Nandeesh T	1GA23CS107

ARTICLES



HOW IS SCIENCE IMPACTING ON HUMAN RACE ?

The high rate of researches in science is enhancing the quality of life

KISHORE S

1GA23CS075

Science 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. I think that humans are benefitted the most from science.

SCIENCE IN PAST

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 time, humans did not have

enough knowledge to understand some of the natural phenomena. They believed that they were a result of divine intervention and made sacrifices.

THE SUPERSTITIONS

In the 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-prevalled heavily during the ancient and medieval times People believed them because they lacked the understanding of how and why things works.

I do not blame them for it, since the scientific knowledge was centralized and, in some regions, learning and popularizing of scientific methods was against the social order.

Deaths due to diseases were thought to be the result of God's rage in the past

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 truth and knowledge. The scientific understanding has also made the people to question the old regimes and to grow out of them

SCIENCE TODAY

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. We have scientific methodology to deal with them.

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

Science has not just made our lives longer, but has also enhanced the quality of our lives. Now we are able to predict the next mass extinction event, invent new protein structures, engineer better varieties of crops and infrastructures.

We can 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. Science has 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

classrooms but in laboratories. I think instead of letting them read the same statement several 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.

LEARNING PRACTICALLY

We can train people for most of the possibilities. 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 has the power to change the present and shape the future, and we must encourage students to learn science and question it with healthy skepticism.

REVAMPING EDUCATION

Youth a 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

SCIENCE

(views expressed are personal)



ARE DEGREES ENOUGH FOR A SUCCESSFUL CAREER?

No time is too late to start following,
"Path of curiosity"

SHREYA H R
1GA22CS152

Your education is a dress rehearsal for a life that is yours to lead

This 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 student when he/she graduates. But, is it of any use?

The question that we should keep asking ourselves is, what does the student gain in life from the earned degree?

Well, addressing these contexts, I think a degree is certainly not sufficient if one want a "successful" career.

In a world where everything is updated at each second, and most of the things are not sustainable. It may have an excellent degree with outstanding CGPA with all the "textbook" knowledge. But how much actual knowledge do I possess in reality?

Other students may bag a much better job with a higher package than mine because of their

resume has n-number of certifications of various courses, multiple internships and work experiences.

Even if one gets placed in a good company with a decent package, the efforts to strive harder to maintain that position and to increase market value of oneself remains constant.

This helps you to grow exponentially over time and also adds up in increasing your value. Students must give a thought on this. Market always look for better-performing candidate. It is very important to choose a career path which interests and increases curiosity all the time. It is the passion towards work that counts.

If we don't opt according to our interest, in the long run, we may get fed-up and lead to a boring life, followed by changes in the mental health leading to depression, anxiety, anti-socialism, rage, impatient behavior.

I think 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 no-where, 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 to find your own 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. You may be going to contribute in the chosen field for the rest of your work-life. So, take your time to make mindful decision.

This is it. Find out about different opportunities and give your best, and there you will be having a massive success in your career. The early you start, the early you can achieve. Along with your academics, managing time to take up different certifications.

Also undergo more number of internships possible 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*

(views expressed are personal)

NVIDIA - The Rise of Semiconductor Giant

DEVAMRUTH K

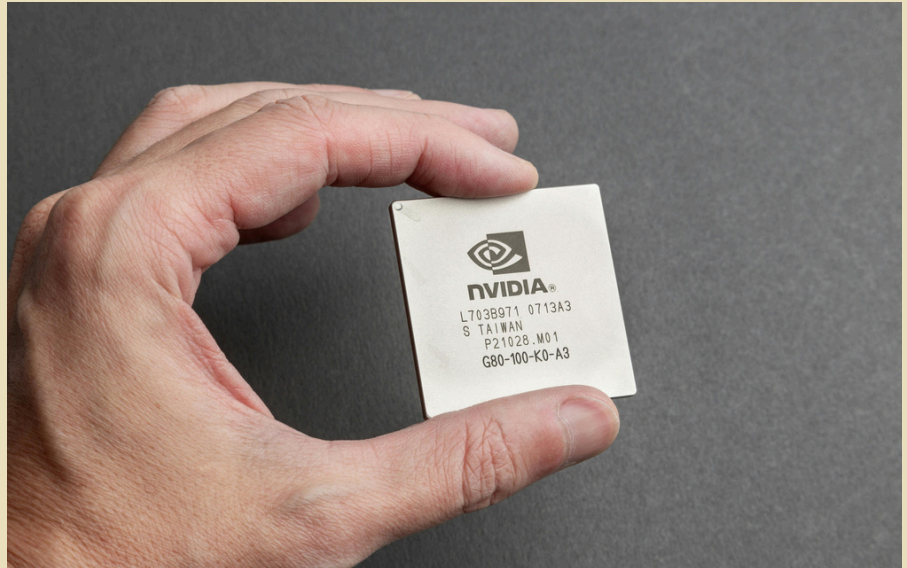
1GA22CS051

Majority of the people working in Information Technology or interested in evolving software technologies would have definitely come across NVIDIA .

A semiconductor manufacturing company which is stirred by the current software world with it's major advancements in Graphic Processing Unit(GPU). GPUs 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 every year.

BOOSTING CHATGPT-4

Software enthusiasts remember role of NVIDIA in the creation of OpenAI's ChatGPT-4 which caused a global sensation previous year. Everyone are trying To explore this newfound Chatbot which can answer almost any kind of question with almost accurate answers. This helped many developers to create new content which ultimately



led to more successful completion of complex projects with time efficiency. This one development led the low-profile chip manufacturing company experience skyrocketing demand for their GPU's after success of ChatGPT.

GAMING AND VR

I myself, a gamer, have noticed it helping in increase in quality of graphics in the video games. Gamers tend to enjoy the upgradation in VR technology.

On observing the demand of NVIDIA's products and applications. It has attracted investors towards this revolutionary company AI.

FUTURE POTENTIAL

Due to which its share prices have increased so much. It's long-term employees who had their certain amount of salary paid, are resulting to be millionaires.

I have accepted that NVIDIA is a company of the future with high potentials to bring big change in AI.

This revolution which would either help humanity in making life simpler to live. Or if the advancements go unnoticed and uncontrolled it can bring total destruction.

(views expressed are personal)



Photo Courtesy: REUTERS/Representational

THE MESSIAH

A Visual Story

DEVAMRUTH K
1GA22CS051

A great legion of hungry crowds encircled the dark clouds which cast black dread of lighting on the Dharavi 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 Dharavi 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 reorganization plan which came into effect almost sixty years ago.

These regions contained infertile land, unfit for agricultural purposes and rocky hills where no real estate could be developed. The State ministers thought, during the reorganization 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 towns; it would be easier to filter them and make way for the upper class to live in luxury and peace, not fearing any violence from the lower class to affect them in any way.

Bhavesh was a tall school boy of 16 years, he never liked sitting idle position. 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. One day the school let-off by afternoon.

He 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 "MESSIAH" whom the people referred to as their beloved politician. Bhavesh's friends talked about their region's beloved politician as their hero who everyone admired 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 because of run-down buildings, unemployment, diseases and zero concern for human life.

Always dreamed of living in that environment promised by the "MESSIAH". They always had a mindset for growth and wanted to 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 mines after reaching adulthood and work tirelessly from dusk 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 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 it. He gave long speeches around the fact that by next week people are going to be vacating their house to 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 surrounded him 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 forever. Bhavesh and his friends were hopping around in pleasure and going around the town informing the elderly that better days were about to come.

POETRY

WHO ARE THESE WOMEN?

A Poem by- Niveditha K U, 1GA23CS113

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
An 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 realized 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

A Poem by- Kishore S, 1GA23CS075

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.

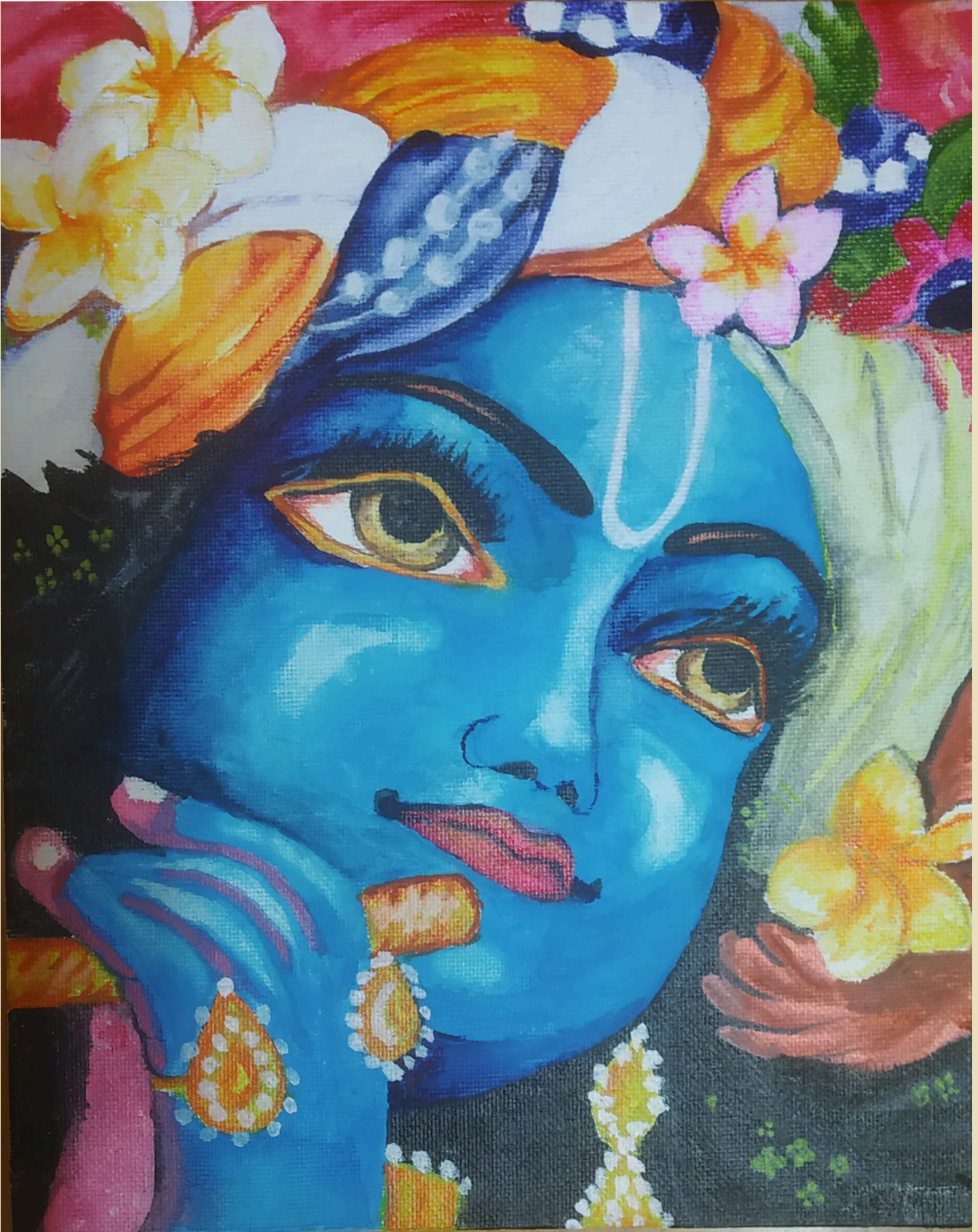
Now I wonder if I could change,
The past, to hack my way through;
But the present is a gift from physics,
I... We are bound by him and can't reject it.
In the end I will return to them.
In eternal peace and silence,
We slumber.

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.



ARTS



A R VAISHNAVI
IGA21CS002



CHANDANA P
1GA22CS039



RAKSHITHA M M
1GA21CS120



NAGASPOORTHI P
IGA22CS107



ASFIYA FIRDOUSE
1GA22CS032

FACULTY CORNER

WOMEN'S DAY 2024



Great supportive performance by our dear faculty!



Show stealing performances by our CSE Faculty!!





NPTEL FACULTY ACHIEVERS

S.N	FACULTY NAME	NAME OF THE NPTEL COURSE	CERTIFICATION TYPE
1	Dr R Kanagavalli	NBA Accreditation and Teaching and Learning in Engineering	Elite Silver
		Introduction To Industry 4.0 And Industrial Internet Of Things	Elite Silver
2	Dr.Jyothi R	Introduction to Industry 4.0 and Industrial Internet of Things	Elite Silver
3	Dr. Manjula K	Introduction to Industry 4.0 and Industrial Internet of Things	Elite Silver
		Privacy and Security in Online Social Media	Elite
4	Dr. Jyothi S	Introduction to Internet of Things	Elite Silver
5	Dr. Naveen Kumar C	Introduction To Industry 4.0 And Industrial Internet Of Things	Elite Silver
6	Prof. Veena V Pattankar	Introduction to Industry 4.0 and Industrial Internet of Things	Elite Silver
		Research Methodology	Elite Silver
7	Prof Sowmya B K	Privacy and Security in Online Social Media	Elite
		Introduction To Industry 4.0 and Industrial Internet of Things	Elite Silver
8	Nayana Rani S	Introduction to Internet of Things	Elite Silver
9	Yashaswini K	Introduction to Internet of things	Elite Silver
10	Thaseen Taj	Introduction to Internet of things	Elite Silver
		Computer Networks and Internet Protocol	Elite
11	Shwetha S N	Introduction to Internet of Things	Elite Gold



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 Ananathapadmanabha	Augmented Reality enhanced Human Computer Interaction for Virtual Environments	Presilla R Asmathunnisa N Dr. Sanjeetha. R Dr. K Ananthapadmanabha Kalpitha 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	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	FUNDING AGENCY	AMOUNT IN INR	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 Learning Enabled 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/V3BGNC2P1CH2	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.iipseries.org/assets/docupload/rs120246F7B1B47A0E6F66.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.iipseries.org/assets/docupload/rs120246099562680FA219.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.iipseries.org/assets/docupload/rs1202477C3C5C0FA60062.pdf	IIP Series	International



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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"

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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"

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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/NMITCON58196.2023.10276119, <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)

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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)

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ARTICLES



VR developer testing the project features
Photo Courtesy: Shravankumar/Representational

EXPLORATION OF AUGMENTED REALITY AND VIRTUAL REALITY IN CLINICAL PSYCHOLOGY

CHAITRA B

Assistant Professor, Dept of CSE

In recent decades the 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.

AR as an imaginal technology allows individuals to experience a reality that doesn't exist in the external world.

It makes them feel "as if they are" in a different environment. It is also an embodied technology. It provides the experience of feeling one's body within the

The significance of AR in the mental health field is based on mainly three key concepts.

virtual environment. AR as a connectivity technology: It symbolizes the "end of geography," transcending physical boundaries..

PSYCHOLOGICAL THERAPY

To diagnose phobias, anxiety disorders, and depression AR is increasingly used. It enables the creation of immersive environments where patients can confront their fears in a controlled setting, enhancing exposure therapy. Case studies have shown that significant reduction of anxiety.

Additionally, AR tools facilitate self-management and psychoeducation, helping patients visualize coping mechanisms and mood patterns effectively. The symptoms dropped down among college students by allowing them to practice social interactions safely.

MEDICAL TRAINING

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. Case studies highlight AR's efficacy in teaching anatomy through interactive 3D visualizations and applications. Thus improving understanding and skill development among medical students.

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.

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.

And promote relaxation. 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.

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

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

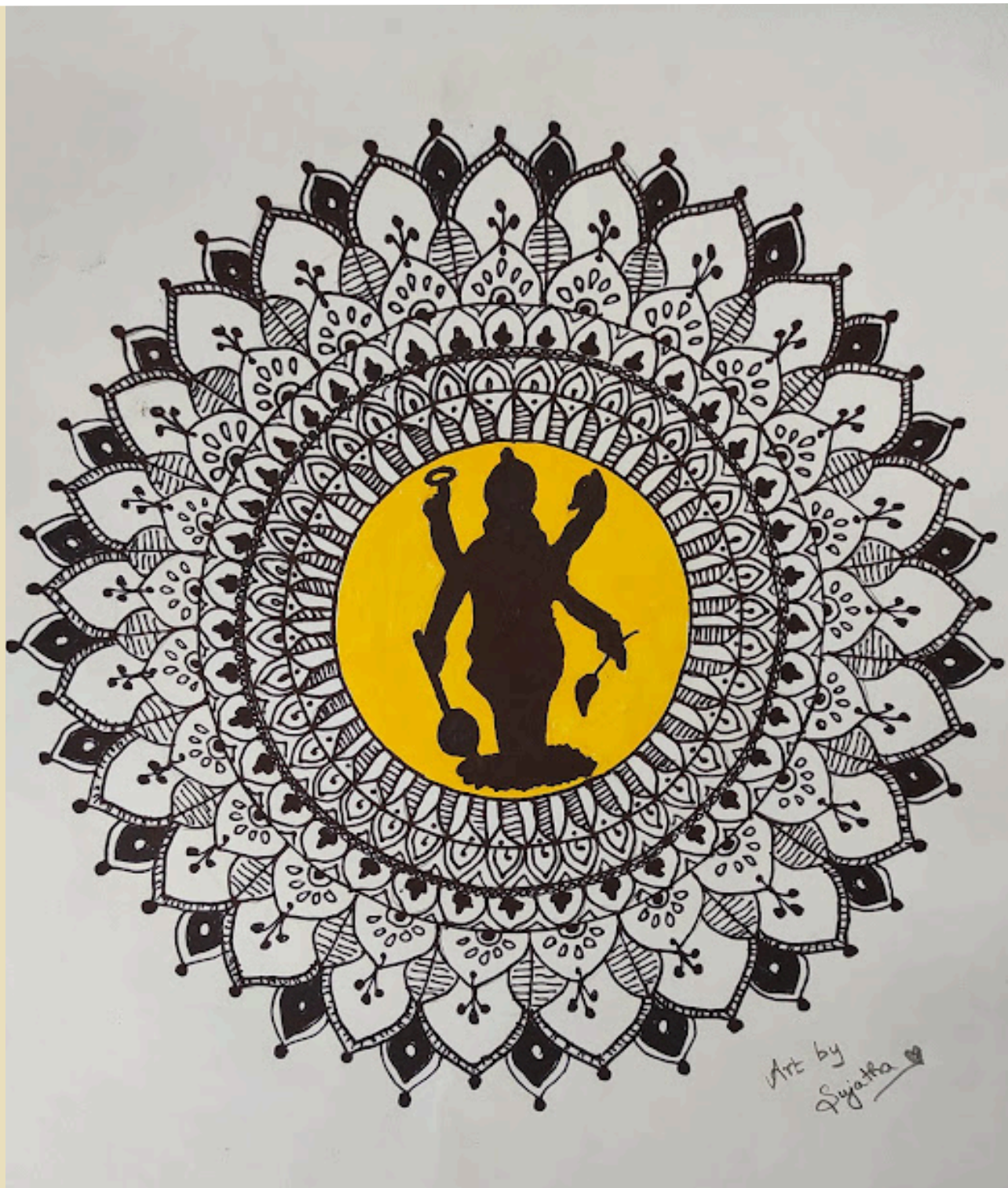
Specific applications include chronic pain management, burn wound care, and cancer treatment. Studies have shown that VR can effectively decrease pain intensity during medical procedures.

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.

(views expressed are personal)



ARTS



B. SUJATHA

Office Assistant, Dept of CSE



GROWING AHEAD OF TIME

LOCATION

Rajarajeshwarinagar, (off Mysore Road), Ideal Homes Township, Bangalore-560098,
Karnataka, India 560098

CONTACT

+91-95915-10211 +91-91082-75635
+91-92431-90105 +91-80-28603158

VISIT

info@gat.ac.in
admissions@gat.ac.in
