

A MAGAZINE OF DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TECHSTIA

THE WRANGLE OF TECHNOPHILES



MAHAGURU UNIVERSITY



MAHAGURU INSTITUTE OF TECHNOLOGY

Affiliated to the APJ Abdul Kalam Technological University (KTU), Thiruvananthapuram
Approved by AICTE, New Delhi and Accredited by NBA & NAAC with B+ Grade
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TECHSTLA 2024

Department of Computer Science and Engineering

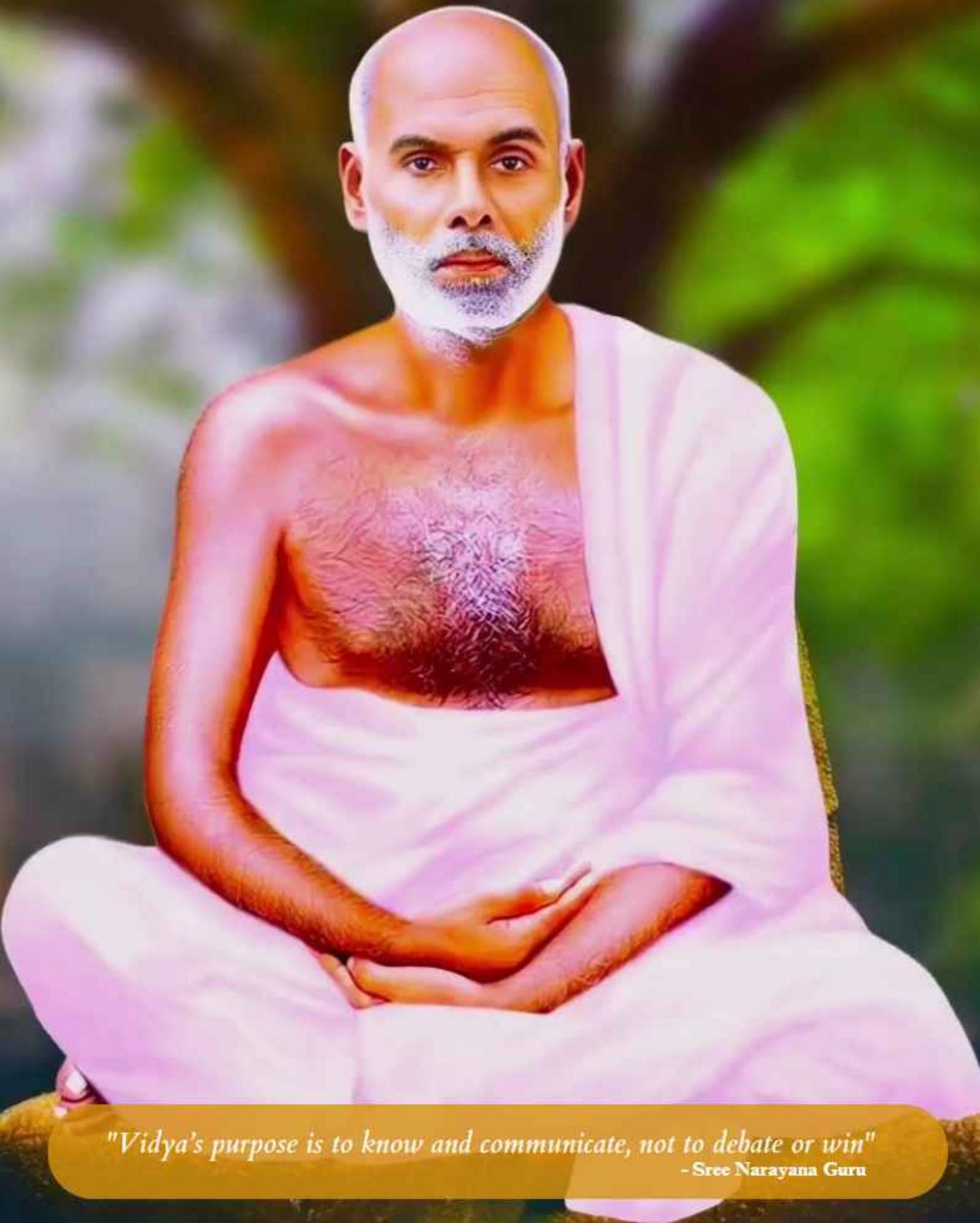
MAHAGURU INSTITUTE OF TECHNOLOGY

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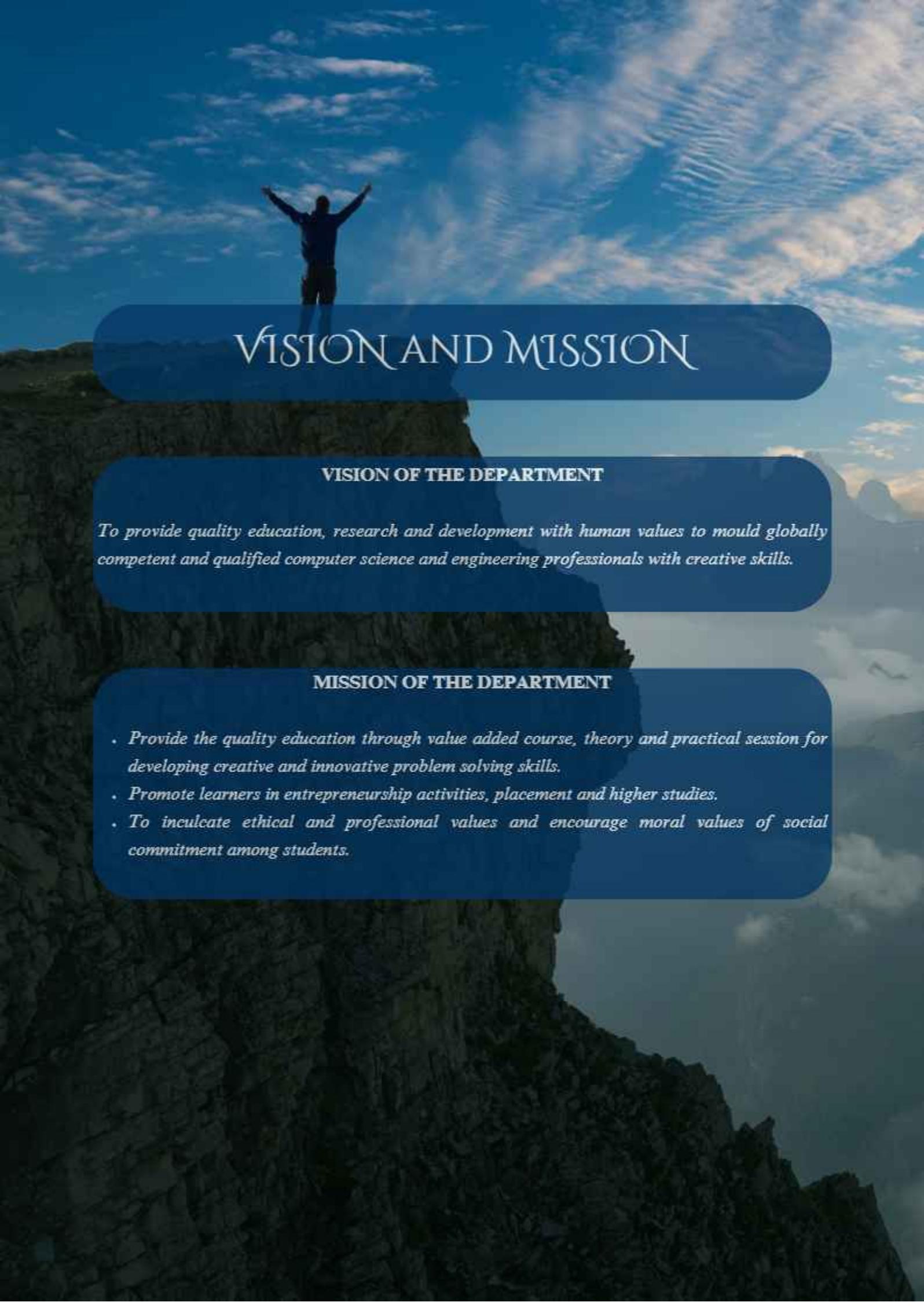
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"Vidya's purpose is to know and communicate, not to debate or win"

- Sree Narayana Guru





VISION AND MISSION

VISION OF THE DEPARTMENT

To provide quality education, research and development with human values to mould globally competent and qualified computer science and engineering professionals with creative skills.

MISSION OF THE DEPARTMENT

- Provide the quality education through value added course, theory and practical session for developing creative and innovative problem solving skills.*
- Promote learners in entrepreneurship activities, placement and higher studies.*
- To inculcate ethical and professional values and encourage moral values of social commitment among students.*

NBA Accreditation

In a significant milestone for Mahaguru Institute of Technology, the Computer Science and Engineering Department has been awarded accreditation by the National Board of Accreditation (NBA). This accreditation serves as a testament to the department's commitment to excellence in technical education and its adherence to industry relevant standards. The NBA accreditation signifies that our college Computer Science program meets rigorous quality benchmarks set by the accrediting body. It validates the program's curriculum, faculty expertise, infrastructure, and overall educational environment. For students, this accreditation ensures that they receive education of the highest caliber, preparing them effectively for careers in the rapidly evolving field of computer science. The attainment of NBA accreditation is a result of the concerted efforts of both faculty members and students at Mahaguru Institute of Technologies. Faculty members have tirelessly worked towards designing and delivering a curriculum that not only imparts theoretical knowledge but also emphasizes practical applications and industry relevance. Their dedication to staying updated with the latest technological advancements has undoubtedly contributed to the program's success.

Moreover, students at the college have demonstrated exceptional commitment and enthusiasm in their academic pursuits. Their active participation in various extracurricular activities, research endeavors, and practical projects has enhanced the overall learning experience within the Computer Science Department. Their eagerness to learn and willingness to engage with challenging concepts have undoubtedly played a crucial role in achieving NBA accreditation. The accreditation by the NBA is poised to significantly enhance the reputation and credibility of Mahaguru Institute of Technologies' Computer Science Department. It not only reflects the department's dedication to maintaining high educational standards but also opens up opportunities for collaborations with industry partners. Employers can now be assured of the quality of graduates produced by the program, further strengthening the institute's placement record and alumni network.



MAHAGURU INSTITUTE OF TECHNOLOGY

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NBA ACCREDITED PROGRAMME IN CSE



Certificate Of Accreditation

For

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

By





MESSAGE FROM CHAIRMAN

Dear Esteemed Students and Faculty Members of the Computer Science Department,

I am delighted to address you through the pages of our department's magazine, a testament to the vibrant spirit and creativity that define our community. As we come together to celebrate the accomplishments and aspirations of our department, I am filled with a sense of pride and optimism for the future of computer science at our institution.

In today's rapidly evolving technological landscape, the field of computer science plays a pivotal role in shaping the world around us. From artificial intelligence and cybersecurity to data science and software engineering, our department is at the forefront of innovation, driving forward the frontiers of knowledge and discovery.

As you contribute to this magazine, I encourage you to embrace the opportunity to showcase the diverse talents and perspectives that make our department truly exceptional. Whether through articles, research papers, or creative projects, let your passion for computer science shine through, inspiring your peers and future generations of innovators.

I am continually amazed by the dedication and ingenuity of our students and faculty members. Your commitment to excellence and your relentless pursuit of knowledge are the driving forces behind our department's success. Together, we are creating a community where curiosity is celebrated, ideas are nurtured, and innovation thrives.

Thank you for your dedication, enthusiasm, and unwavering commitment to excellence. I look forward to celebrating the remarkable achievements of our department together.

Best wishes for a successful publication!

Dr. A M Gopalan
Chairman



MESSAGE FROM PRINCIPAL

Dear Readers,

Welcome to the latest issue of our Computer Science Department Magazine TECHSTIA! Within these pages, you'll find a tapestry of innovation, creativity, and academic excellence that reflects the vibrant spirit of our department. From cutting-edge research to student achievements and faculty spotlights, this magazine is a celebration of our collective journey in the realm of computer science.

I'm Happy and proud to say that our Computer Science and Engineering (CSE) department has been officially accredited by the National Board of Accreditation (NBA)! This recognition is a testament to the dedication and hard work of our faculty, staff, and students who have consistently strived for excellence in education and research.

As we navigate through the ever-evolving landscape of technology, let this publication serve as a compass, guiding us toward discoveries and inspiring collaborations. I extend my heartfelt gratitude to all who have contributed to this edition, and I invite you to immerse yourself in the stories, insights, and breakthroughs shared within.

Happy reading!

Dr. V Suresh Kumar
Principal



MESSAGE FROM VICE PRINCIPAL

Dear Readers,

It is with great pleasure that I address you through the pages of your Department Magazine TECHSTIA. I take this opportunity to extend my warmest wishes to the department of CSE for your NBA accreditation. In the realm of computer science, you are the architects of tomorrow's digital landscape. Your innovative spirit and tireless pursuit of knowledge are the driving forces behind the advancements that shape our world. Whether you are delving into the intricacies of algorithms, exploring the possibilities of artificial intelligence, or designing cutting-edge software applications, your contributions are invaluable.

As you navigate the challenges and opportunities that lie ahead, I encourage you to embrace every experience as an opportunity for growth and learning. Remember, you are not just students of computer science; you are pioneers, trailblazers, and visionaries. Your ideas have the power to revolutionize industries, transform lives, and make a lasting impact on society. I look forward to witnessing the incredible achievements that lie ahead for each and every one of you. Best wishes for a successful and fulfilling journey in computer science and beyond.

Dr. Manju J
Vice Principal



MESSAGE FROM DEAN (ACADEMIC)

Dear Readers,

Congratulations to the Department of Computer Science & Engineering! Achieving NBA accreditation is a significant accomplishment that reflects the department's commitment to providing high quality education. The release of a department magazine is another great initiative that will likely showcase the department's achievements and student work. It reflects the hard work, dedication and talent of the editorial team behind TECHSTIA. The editorial team has initiated something that will continue to help and guide present and upcoming students of the Department. Personally, I feel that students of Mahaguru Institute of Technology are equipped to set high standards and create an environment so that they excel in their areas of interest and accordingly guide more and more students of our institution, for the future. To the faculty, staff, and students, I wish you the very best as you continue the remarkable tradition of publishing an annual magazine, highlighting the accomplishments and accolades of our esteemed faculty and students.

"A little progress each day adds up to big results."

Wishing all the students a bright and successful future ahead.

Dr Arun Elias

Dean (Academic) & Professor CSE



MESSAGE FROM CSE HOD

Dear Students and Faculties,

It is with great pleasure that I welcome you to the latest edition of our department magazine TECHSTIA. As the Head of the Department of Computer Science and Engineering (CSE), I am immensely proud to present to you a collection of insightful articles, innovative projects, and noteworthy achievements from our department.

The CSE department continues to uphold a tradition of excellence in education and research, striving to prepare our students to be at the forefront of technological advancement. With accreditation from NBA, we maintain a standard of excellence across every aspect of our institution. Through our rigorous curriculum, dedicated faculty, and state-of-the-art facilities, we aim to equip our students with the skills and knowledge necessary to excel in today's dynamic world.

In this magazine, you will find a glimpse into the diverse range of activities and initiatives undertaken by our department. From cutting-edge research in artificial intelligence and cybersecurity to inspiring projects in software development and data science, our students and faculty are making significant contributions to the field of computer science.

I would like to express my sincere appreciation to all the students, faculty members, and staff who have contributed to the success of our department and this magazine. Your hard work, dedication, and passion are truly commendable and serve as a source of inspiration for all of us.

As we celebrate our achievements and look towards the future, I encourage you to explore the pages of this magazine and discover the incredible talent and innovation within our CSE department. Together, let us continue to push the boundaries of knowledge and strive for excellence in everything we do.

Thank you for your continued support and enthusiasm.

Mrs. Suma S G
HoD, CSE

HEADS OF DEPARTMENT SHARE THEIR INSIGHTS

Congratulations to the CSE Department on achieving NBA accreditation! This prestigious recognition reflects your commitment to excellence in education and innovation. Your hard work and dedication have truly paid off, paving the way for continued success and impact in the future as well.



Mrs. Vivitha Vijay
HoD, AI & ML



Dr. Manikanda Prabu N
HoD, ME

We are very delightful to appreciate the CSE Department who secured a NBA accreditation status. On behalf of my faculty colleagues, I wish the HoD, Criterion coordinators, faculties, lab technicians and students of CSE for their achievement and recognition.

I am delighted to meet the readers of TECHSTIA, the department's leading source of innovation and information, on behalf of our Computer Science and Engineering Department. It is an honor for me to participate in this cooperative platform and highlight the interaction between our disciplines as the head of the EEE Department.



Mr. Sarath S
HoD, EEE



Mrs. Priya Grace Itti Eipe
HoD, CE

I am thrilled to extend my heartfelt congratulations to the entire CSE Department on achieving NBA accreditation. Also, I would like to express my best wishes to the editorial teams of the CSE Department for the latest edition of the department magazine, "TECHSTIA."



Mr. Ratheesh Kumar
HoD ECE

I am thrilled to extend my heartfelt congratulations to the entire CSE Department on achieving NBA accreditation. Also, I would like to express my best wishes to the editorial teams of the CSE Department for the latest edition of the department magazine, "TECHSTIA."

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Mr. Sasi K S
HoD S&H



Dr. B Sasi

Chief Superintendent, Exam Cell

I extend my warmest congratulations to the CSE department for achieving the NBA accreditation. This reflects your commitment to academic excellence and the pursuit of high standards in education. I also extend my best wishes to the CSE department for their latest edition of "TECHSTIA 2024."

My heartiest congratulations to the CSE Department of MIT on its NBA accreditation celebrations. MIT has shown indomitable spirit that establishes its accomplishments. Moreover, I appreciate the efforts of all those who have been working hard to breath life in every page of this magazine. I extend my warm regards to all.



Mrs. Sreejyothi B A
Principal MIS



MESSAGE FROM CHIEF EDITOR

Dear Readers,

As the Chief Editor of TECHSTIA, the esteemed magazine of the Computer Science and Engineering Department at Mahaguru Institute of Technology, I am thrilled to connect with you all once again. In this new edition of TECHSTIA, we are excited to introduce several new initiatives that reflect our commitment to staying at the forefront of technological advancement. Our editorial team has worked tirelessly to bring fresh perspectives and innovative ideas to our pages. We invite all our readers to explore the latest edition and immerse themselves in the wealth of knowledge it offers.

I would like to express my deepest gratitude to the entire editorial team of the CSE department and magazine. Your dedication, creativity, and hard work have been instrumental in producing a magazine that truly reflects the spirit of innovation and excellence.

Thank you to our readers for your continued support and encouragement. We hope that magazine continues to inspire and inform you as we journey together into the future of technology.

Mrs. Preeti Mariam Mathews

Asst. Prof. CSE

MESSAGE FROM EDITORIAL TEAM



Mr. Mrinal M Prasad
STUDENT EDITOR



Mr. Arjun Vijay
SUB EDITOR



Mr. Muhammad Vaseem
CONTENT EDITOR



Mr. Baaji Aravind
COVER DESIGNER



Mr. Joyal P Antony
DESIGNER



Mr. Krishna Raj S R
LAYOUT DESIGNER



Mr. Navaneet Krishna S
MEDIA COORDINATOR



Mr. Ashwin Ramesh
MEDIA

Dear Readers,

We present the latest edition of TECHSTIA, the official magazine of the CSE Department of MIT, I am filled with pride and gratitude. Reflecting on our journey, each edition has been a testament to the hard work and dedication of our editorial team. Each release has been a stepping stone, refining our vision and expanding our reach.

Being the student editor has been an enriching experience, allowing me to witness the incredible coordination and collaboration among our team members. Their unwavering commitment and enthusiasm have been the driving forces behind each successful edition. In this new edition, we have infused fresh ideas and perspectives, aiming to engage and inspire our readers. We invite you all to explore the innovations and creativity captured within these pages. Our team has worked tirelessly to bring you a magazine that is not only informative but also thought-provoking.

We would like to extend my heartfelt thanks to the entire editorial team of TECHSTIA. Your dedication and passion have turned our collective vision into reality. Special thanks to our readers for your continued support, as it fuels our passion to strive for excellence. Happy Reading!

FACULTY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



SUMA SG
(HOD,CSE)



Dr. SUMALATHA M S



NAMITHA T N



CHITHRA S RAVI



HIMA MOHAN



MATHU UTHAMAN



CHIPPY T



ANUB A



PREETI MARIAM MATHEWS



SREELEKSHMI B

NON-TEACHING FACULTY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



BINU



SREEVIDYA S



RAHUL



ABHILASH R



TECHSTIA

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EMBRACING THE JOURNEY: A ROADMAP TO SELF-REALIZATION

In the hustle and bustle of our daily lives, it's easy to lose sight of ourselves amidst the noise of external expectations and societal pressures. Yet, deep within each of us lies a profound truth waiting to be uncovered—the truth of our authentic selves. The transformative journey of self-realization and explore how embracing this path can lead to a life of fulfillment and authenticity.

Picture this: a time in your life when you felt adrift, unsure of your purpose or direction. For me, that moment came when I realized I was merely following a path set by others, rather than charting my own course. It wasn't until I mustered the courage to question my beliefs and desires that I began to uncover my true self. The journey was filled with twists, turns, and moments of clarity a journey that reshaped my entire perspective on life. Self-realization is not a destination; it's a lifelong journey of exploration and growth. It involves peeling back the layers of conditioning and societal expectations to reveal the essence of who we are. Some may find solace in meditation and introspection, while others may seek guidance from mentors or immerse themselves in new experiences. Regardless of the path chosen, the key is to approach it with an open mind and a willingness to embrace the unknown.

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The journey of self-realization is not for the faint of heart. It requires courage, resilience, and a willingness to confront the unknown. Yet, the rewards far outweigh the challenges. So, let us embrace the journey, embrace the unknown, and above all, embrace ourselves. For in the end, the greatest discovery we'll ever make is the person staring back at us in the mirror. Are you ready to embark on the journey of a lifetime? The journey to self-realization awaits. It's time to take that first step. By embracing the path of self-realization, we can unlock our true potential and live a life of authenticity and fulfillment.



ARYA S KUMAR
S8 CSE

ALONE

In a world full of noise and constant connections, loneliness can make us feel sad. But is being lonely always bad? What does it really mean to feel lonely? Loneliness isn't just about not having anyone around. It's about feeling like nobody understands us or sees us, even when we're surrounded by people. Sometimes, we can feel the loneliest when we're in a big group, showing that being physically close to others doesn't always mean we feel connected to them emotionally.

Living a lonely life doesn't mean we don't have any friends. Some people feel lonely even when they have lots of friends. It's not about how many friends we have, but how close we feel to them. Loneliness is about feeling like we can't really connect with others or that our relationships aren't satisfying.

But being alone on purpose can sometimes help us see loneliness differently. Choosing to spend time alone can give us strength and help us learn more about ourselves. It's a chance to think, be creative, and grow as a person. Being alone lets us become more independent and resilient.

Still, being lonely for a long time can be really bad for us. It can make us feel stressed, sad, or worried all the time. It might even make us sick. That's why it's important to take loneliness seriously and do something about it.

Dealing with a lonely life takes bravery and strength. It means trying to build meaningful connections with others or with ourselves. Making good friends, doing things we enjoy, and asking for help when we need it are all important ways to fight loneliness.

Understanding loneliness isn't easy. It's not just about being by ourselves; it's about feeling like we're not connected to others or even to ourselves. But by sometimes enjoying our alone time and working on our relationships, we can deal with loneliness directly and find happiness and a sense of belonging



MUHAMMAD VASEEM
S4 CSE

REFLECTIONS OF A MISFIT

When it suddenly hits on my backyard,
Just stumbled with jerks and keenness
It shadowed over my entire sphere
And crumbled with expectations and elements.

Among the bitter conflicts against distrust
Psyche was cheered with hesitation
Overwhelmed about the coming times
Awaiting the better moment to come

All the prejudices, the vanity and the greed
Invincible as it ever was
And it misfits from the earthly concerns
Clinged over the myth and reality

The misfits are rare, as they share fragile humanity
Colours begins to thrust humanity
Distorted with struggles and battles
Fading by the towering rays of sun

Acclimated with this changing world
As a misfit, inclined the power of nature
Just take a look around, awake
And soul seems like a puzzle with no needs



G R LEKSHMIPRIYA
S6 CSE

EXPLORING OPPORTUNITIES FOR ENTREPRENEURSHIP IN COMPUTER SCIENCE PROGRAMS

Introduction Computer science academia is experiencing a surge in entrepreneurial ventures, with students and researchers pursuing innovative solutions alongside traditional academic paths. This shift is driven by rapid technological advancements and a desire to make a tangible impact on the world.

The Changing Landscape Technological advancements, including AI, big data, cybersecurity, and blockchain, have created fertile ground for entrepreneurial ventures. Computer science students, equipped with expertise in these emerging technologies, are uniquely positioned to transform ideas into successful ventures. This environment fosters innovation and provides opportunities to address real-world problems.

Advantages of Combining Academia and Entrepreneurship

Hands-on Learning: Entrepreneurship offers practical experience that complements academic knowledge. Students refine problem-solving skills, learn to navigate business challenges, and gain expertise in project management and marketing.

Funding and Financial Independence: Entrepreneurial endeavors attract venture capital, grants, and investments, overcoming limitations of traditional academic funding and supporting the development of groundbreaking technologies.

Societal Impact: By creating viable products and services, students can address societal challenges and contribute to economic growth, witnessing the tangible results of their work.

Supporting the Entrepreneurial Spirit Universities are increasingly supporting entrepreneurial ventures through:

Specialized Programs: Offering courses and programs tailored to entrepreneurship within computer science.

Incubators and Accelerators: Providing resources, mentorship, and networking opportunities to help students refine and realize their ideas.

Competitions and Challenges: Organizing hackathons and innovation challenges to promote skill development and industry recognition.

Thriving as a Computer Science Entrepreneur Success in combining academia and entrepreneurship involves:



Building Networks: Connecting with peers, mentors, and industry professionals to secure collaborations, funding, and relevant connections.
Staying Updated: Keeping abreast of emerging technologies and industry trends to maintain a competitive edge.

Embracing Failure: Viewing setbacks as learning opportunities and adapting to challenges is crucial for long-term success.

Bridging the Gap: Fostering Entrepreneurial Mindsets in Computer Science Curricula

Importance of Entrepreneurial Mindsets

Innovation: Fostering the ability to identify and solve problems creatively.

Industry Demand: Meeting the evolving job market's need for candidates with both technical skills and entrepreneurial thinking.

Collaboration: Encouraging interdisciplinary teamwork, essential for successful entrepreneurial projects.

Strategies for Integration

Project-Based Learning: Implementing real-world entrepreneurial projects to apply technical and entrepreneurial skills.

Industry Partnerships: Collaborating with industry experts for guest lectures, internships, and mentorship.

Entrepreneurship Courses: Offering dedicated courses on business fundamentals, market analysis, and pitching ideas.

Entrepreneurship Centers: Establishing hubs for resources and support to foster innovation and collaboration.

Overcoming Challenges

Updating Faculty Skills: Providing training for faculty to effectively teach entrepreneurship.

Curriculum Flexibility: Allowing flexibility in coursework to enable students to pursue entrepreneurial projects.

Support Networks: Creating networks for students to connect with mentors, alumni, and peers for guidance and resources.

Conclusion Integrating entrepreneurial mindsets into computer science curricula is crucial for preparing students for the evolving digital landscape. By equipping students with both technical skills and an entrepreneurial approach, we enable them to drive innovation, meet industry demands, and contribute to the global economy, creating a generation of computer scientists capable of making a lasting impact



Mrs. Preeti Mariam Mathews

Asst. Prof. CSE

TESLA'S 'OPTIMUS' HUMANOID ROBOT SET FOR 2025 RELEASE

Early prototypes have already demonstrated basic capabilities like walking, object manipulation, and simple activities.

Tesla is venturing into the realm of humanoid robots with its upcoming "Optimus." This ambitious project aims to bring versatile, human-like robots into various industries and potentially even our homes.

Optimus is designed to perform a wide range of tasks, from manufacturing and logistics to healthcare and household chores. Early prototypes have already demonstrated basic capabilities like walking, object manipulation, and simple activities.

Elon Musk, Tesla's CEO, has revealed a two-pronged approach to introducing Optimus:

Rental Program: Initially, Tesla will offer the robots for rent, allowing businesses to test and integrate them into their workflows.

Sales: Eventually, Tesla plans to sell Optimus directly to businesses and potentially even consumers.



Interestingly, Optimus is already being deployed in Tesla's own Fremont factory, where it assists with tasks like sorting battery cells and managing shipping containers. The company aims to have over a thousand units operational in its factories by next year.

Despite promising progress, challenges remain in developing a humanoid robot that can match human dexterity, navigate diverse environments, and interact naturally with people. The rise of humanoid robots also raises ethical concerns about job displacement, privacy, and the broader societal impact of human-like machines.

Tesla's foray into humanoid robotics could revolutionize how we automate tasks and interact with machines. If successful, Optimus could become a common sight in various industries and even our homes, fundamentally changing our relationship with technology.

The next few years will be crucial for Tesla as it refines Optimus and prepares it for wider adoption.



JOYAL P ANTONY
S6 CSE

NEW BRAIN-COMPUTER INTERFACE ALLOWS MAN WITH ALS TO 'SPEAK' AGAIN

A new brain-computer interface translates brain signals into speech with up to 97 percent accuracy. Researchers implanted sensors in the brain of a man with severely impaired speech due to amyotrophic lateral sclerosis (ALS). The man was able to communicate his intended speech within minutes of activating the system.

With up to 97% accuracy, a new brain-computer interface (BCI) created at UC Davis Health converts brain impulses into speech, making it the most accurate system of its kind. A guy with amyotrophic lateral sclerosis (ALS) who had significantly affected speech had sensors implanted in his brain by the researchers. After setting the system, the individual was able to speak how he meant to in a matter of minutes. A paper pertaining to this research was just released in the New England Journal of Medicine. Lou Gehrig's disease, also known as ALS, destroys the nerve cells that regulate movement throughout the body. The illness causes a progressive loss of one's capacity for walking, standing, and hand function. Additionally, it may result in a person losing control over the speech muscles, which could impair their ability to communicate clearly. The goal of the new technology is to help those who are paralyzed or suffer from neurological disorders like ALS, so they can communicate again. When the user tries to speak, it can interpret brain signals and translate them into text that the computer will "spoken" aloud. Neurosurgeon David Brandman of UC Davis said, "Our BCI technology helped a man with paralysis to communicate with friends, families, and caregivers." "Our paper demonstrates the most accurate speech neuroprosthesis (device) ever reported." Co-principal investigator and co-senior author Brandman is involved in this research.





The new BCI breaks the communication barrier

The new brain-computer interface (BCI) technology translates brain activity into letters on a computer screen when a person tries to talk. The text can then be audibly read by the computer. The group included 45-year-old ALS patient Casey Harrell in the BrainGate clinical trial in order to build the technology. Harrell experienced tetraparesis, or weakness in his arms and legs, at the time of enrollment. Dysarthria made his speech extremely difficult to comprehend, necessitating the assistance of others to interpret for him. Brandman inserted the experimental BCI device in July 2023. He implanted four microelectrode arrays into the speech coordination region of the brain, the left precentral gyrus. The 256 cortical electrodes on the arrays are intended to record brain activity. Neuroscientist Sergey Stavisky said, "We're really detecting their attempt to move their muscles and talk." Stavisky works as an assistant professor in the neurological surgery division. He serves as the study's co-principal investigator in addition to being the co-director of the UC Davis Neuroprosthetics Lab. The area of the brain that is attempting to communicate these commands to the muscles is where we are recording. And we are essentially listening to it, converting those brain activity patterns into phonemes, which are similar to syllables or speech units, and then into the words that they are attempting to express."



AKHIL RAJ R
S8 CSE

Knowledge is power

Once upon a time, there was a young man named Robert who lived in a small village surrounded by lush green forests and winding rivers. Robert was a curious and adventurous soul, always eager to explore the world around him.

One day, while wandering through the forest, Robert stumbled upon a hidden clearing. In the center of the clearing stood an enormous tree, its trunk twisted and gnarled with age. Robert felt drawn to the tree, as if it held secrets and stories he was meant to uncover.

As he approached the tree, Robert noticed a small door carved into the trunk. The door was slightly ajar, inviting him to enter. Without hesitation, Robert pushed the door open and stepped inside.

Inside the tree, Robert found a cozy room filled with books, strange artifacts, and a warm golden light. An old man with kind eyes and a long white beard sat in a comfortable chair, surrounded by the treasures of the tree.

"Welcome, Robert", said the old man. "I have been waiting for you. My name is Oakley, and this is my home. I have been guarding the secrets of the forest for many years, and now it is time to share them with you".

And so, Robert spent many hours with Oakley, learning about the magic of the forest, the language of the trees, and the secrets of the universe. As he left the tree, Robert felt transformed, as if he had discovered a part of himself he never knew existed.

From that day on, Robert visited Oakley often, learning and growing with each passing day. He became a guardian of the forest, using his newfound knowledge to protect and defend the natural world.

Years went by, and Robert grew old, but the lessons he learned from Oakley remained with him forever. And when his time on this earth came to an end, Robert's spirit returned to the tree, where Oakley welcomed him home.

The story of Robert teaches us that wisdom, knowledge, and magic can be found in unexpected places, and that the natural world holds secrets and wonders waiting to be discovered.



SHOWERS OF RAIN

At the midnight hour, when darkness reigns
And silence falls on the roads of tar and pains
I was awakened by the pitter-patter of rain
A soothing melody that relieved every strain

The scorching heat, it had taken its toll
Draining life from the earth, leaving it old
But the rain came, like a gentle lover's cares
Bringing life to the ground, and quieting every stress

With every drop, the world began to renew
The flowers lifted their petals, and the trees regained their hue
The breeze whispered secrets, as the raindrops played
A symphony of joy, that echoed through the shades

The nature danced, with abandon and glee
Twirling and spinning, wild and carefree
Like a child with a toy, it played with every sight
Bringing wonder to our eyes, and banishing the night

The summer's heat, it began to lose its might
As the rain washed away, the long and endless light
The world was fresh, and clean, and new
A canvas waiting, for dreams to break through

We all welcome the rain, with open hearts
Embracing its beauty, and its gentle starts
No need for pretence, or false delight
For in the rain's embrace, we find our peace, our light.



SAI KRISHNA S
S6 CSE

QUANTUM MICROPROCESSOR CHIPS FOR REVOLUTIONARY MOLECULAR SPECTROSCOPY SIMULATION

Quantum simulation enables scientists to simulate and study complex systems that are challenging or even impossible using classical computers across various fields, including financial modelling, cyber security, pharmaceutical discoveries, AI and machine learning. For instance, exploring molecular vibronic spectra is critical in understanding the molecular properties in molecular design and analysis. However, it remains a long-standing computationally difficult problem that cannot be efficiently solved using traditional super-computers. Researchers are diligently working on quantum computers and algorithms to simulate molecular vibronic spectra. However, they are limited to simple molecule structures, as they struggle with low accuracy and inherent noise.

Engineering researchers at The Hong Kong Polytechnic University (PolyU) have successfully developed a quantum microprocessor chip for molecular spectroscopy simulation of actual large-structured and complex molecules, a world-first achievement. Capturing these quantum effects accurately requires meticulously developed simulations that account for quantum superposition and entanglement, which are computationally intensive to model classically. The research is published in Nature Communications, in a paper titled "Large-scale photonic network with squeezed vacuum states for molecular vibronic spectroscopy". This cutting-edge technology paves the way to solving complicated quantum chemistry problems, including quantum computational applications which are beyond the capabilities of classical computers.

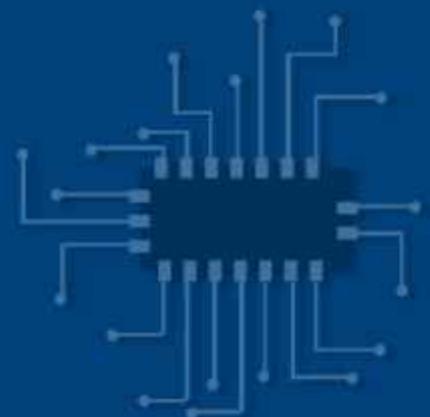
The research team is led by Professor LIU Ai Qun, a Chair Professor of Quantum Engineering and Science and Director of the Institute for Quantum Technology (IQT), a Global STEM Scholar and Fellow of Singapore Academy Engineering, together with the main project driver, Dr. ZHU Hui, Postdoctoral Research Fellow of the Department of Electrical and Electronic Engineering and the first author of the research paper.

Other collaborators are from Nanyang Technological University, City University of Hong Kong, Beijing Institute of Technology, Southern University of Science and Technology, the Institute of Microelectronics and Chalmers University of Technology in Sweden. Dr. Zhu's team have experimentally demonstrated a large-scale quantum microprocessor chip and introduced a non-trivial theoretical model employing a linear photonic network and squeezed vacuum quantum light sources to simulate molecular vibronic spectra. The 16-qubit quantum microprocessor chip is fabricated and integrated into a single chip. A complete system has been developed, including the hardware integration of optical-electrical-thermal packaging for the quantum photonic microprocessor chip and electrical control module, software development for device drivers, user interface and underlying quantum algorithms which are fully programmable. The quantum computer system developed provides a fundamental building block for further applications.

The quantum microprocessor can be applied to solving complex tasks, such as simulating large protein structures or optimizing molecular reactions with significantly improved speed and accuracy. Dr. Zhu said, "Our approach could yield an early class of practical molecular simulations that operate beyond classical limits and hold promise for achieving quantum speed-ups in relevant quantum chemistry applications".



Anantha Krishnan R
S8 CSE

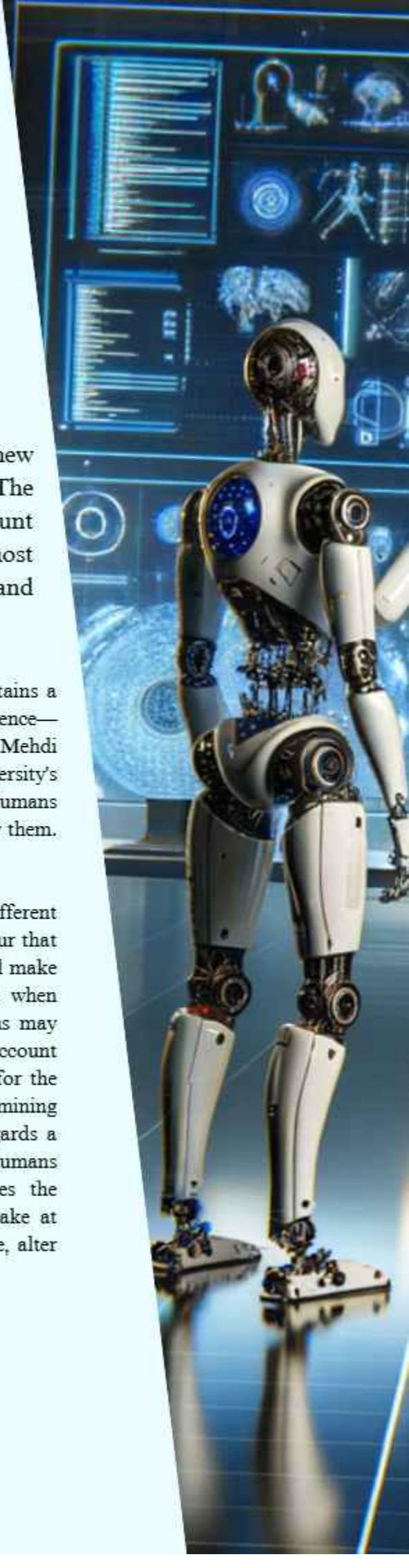


ROBOT PLANNING TOOL ACCOUNTS FOR HUMAN CARELESSNESS

By increasing their awareness of human inattention, a new algorithm has the potential to make robots safer. The algorithm designed to take human negligence into account increased productivity by roughly 38% and safety by almost 80% in computerized simulations of assembly lines and packaging where people and robots coexist.

IEEE Transactions on Systems Man and Cybernetics Systems contains a report on the work. "Many accidents occur daily as a result of negligence—sadly, the majority are caused by human error," lead author Mehdi Hosseinzadeh, an assistant professor at Washington State University's School of Mechanical and Materials Engineering, stated. "Humans frequently break the rules, while robots behave as intended and obey them. That is the trickiest and most demanding issue.

Humans and robots are working together more and more in many different areas. Humans and robots must coexist in many industries, yet labour that is repetitive and tiresome can cause people to become distracted and make mistakes. Most computer programs assist robots in responding when something goes wrong. According to Hosseinzadeh, the algorithms may prioritize increasing safety or efficiency, but they haven't taken into account how people's behaviours are evolving. Prior to creating a strategy for the robots, the researchers sought to measure human negligence by examining things like the frequency with which a person overlooks or disregards a safety warning. The robot is designed to adjust its interactions with humans who exhibit reckless conduct once it detects it. This minimizes the possibility that the person may injure themselves or make a mistake at work. To avoid obstructing the human, the robot may, for example, alter how it completes its work.



The robot updates its level of carelessness and any changes it notices on a constant basis. Using a computer simulation of a packaging line with four workers and a robot, the researchers tested their idea. Additionally, they tested a model of a cooperative assembly line in which two people and a robot would work together. "The core idea is to make the algorithm less sensitive to the behavior of careless humans", Hosseinzadeh stated. "Our results revealed that the proposed scheme has the capability of improving efficiency and safety". Following a computational simulation, the researchers intend to test their findings with actual robots and humans in a lab setting before moving on to field study. In addition, they wish to measure and take into consideration other characteristics of people, such as threat awareness or human reason, that have an impact on productivity at work. The National Science Foundation provided funding for the project. Washington University in St. Louis's Aaron F. Bobick and Bruno Sinopoli were co-authors of the study.



BHAVANA BAIJU
S6 CSE

BE DIFFERENT

Do something new,
Yes you can do,
Be different, be unique,
All your dreams you seek!

If you wanna be great,
Don't just wait,
Start working my friend,
All your sadness will end!
Do something new,
Yes you can do,
Be different, be unique,
All your dreams you seek!

You will certainly be,
What you desire eternally,
Just make a promise,
Spot the negatives and demolish!
Do something new,
Yes you can do,
Be different, be unique,
All your dreams you seek!



AFRIN HUSSAIN
S6 CSE

THE VALUE OF FRIENDSHIP

Friendship is one of the most cherished and profound aspects of human life. It is a relationship characterized by mutual affection, trust, and support, offering both emotional and practical benefits. Unlike family connections, which are often predetermined, friendships are chosen and cultivated through shared experiences and personal bonds.

One of the primary values of friendship lies in its ability to provide emotional support. True friends stand by us during times of hardship, offering comfort and understanding. This support can be a crucial factor in overcoming personal challenges and fostering resilience. In times of joy, friends also enhance our happiness by sharing in our successes and celebrating our milestones, thereby amplifying our sense of achievement.

Furthermore, friendships contribute to personal growth and self-awareness. Friends often serve as mirrors, reflecting back our strengths and weaknesses, which can help us gain a better understanding of ourselves. Through honest feedback and diverse perspectives, they challenge us to grow and improve, fostering both intellectual and emotional development.

The social benefits of friendship are also significant. Friendships provide a sense of belonging and community, reducing feelings of loneliness and isolation. They create a network of support that can be essential for navigating various life stages and transitions. In essence, friends help us build a richer and more connected social life, enhancing our overall well-being.

However, maintaining friendships requires effort and mutual commitment. Effective communication, empathy, and respect are crucial for nurturing these relationships. Just as in any significant relationship, misunderstandings and conflicts can arise, but working through these challenges can strengthen the bond.

In conclusion, friendship is an invaluable aspect of human experience, offering emotional support, personal growth, and social connection. The effort invested in cultivating and maintaining friendships is often rewarded with profound and enduring relationships that enrich our lives in countless ways.



ANJALI GOPINATH
S6 CSE

VIRTUAL AND AUGMENTED REALITY: RESEARCHERS PIONEER PROCESS TO STACK MICRO-LEDS

Put on a virtual reality headset and, chances are, it will look like you are viewing the world through a screen door. Current flat panel displays use pixels that are visible to the naked eye, along with small bits of unlit dark space between each pixel that can appear as a black, mesh-like grid.

Researchers from the Georgia Institute of Technology, in collaboration with researchers from the Massachusetts Institute of Technology (MIT), have developed a new process based on 2D materials to create LED displays with smaller and thinner pixels. Enabled by two-dimensional, materials-based layer transfer technology, the innovation promises a future of clearer and more realistic LED displays. The team published a paper in the journal *Nature* in February titled, "Vertical full-color micro-LEDs via 2D materials-based layer transfer." Co-authors also include researchers from Sejong University in Korea, and from additional institutions in the U.S. and South Korea.

Georgia Tech-Europe Professor Abdallah Ougazzaden and research scientist Suresh Sundaram (who both also hold appointments in Georgia Tech's School of Electrical and Computer Engineering) collaborated with researchers from MIT to turn the conventional LED manufacturing process on its head-literally. Instead of using prevailing processes based on laying red, green, and blue (RGB) LEDs side by side, which limits pixel density, the team vertically stacked freestanding, ultra thin RGB LED membranes, achieving an array density of 5,100 pixels per inch-the smallest pixel size reported to date (4 microns) and the smallest-ever stack height-all while delivering a full commercial range of colors. This ultra-small vertical stack was achieved via the technology of van der Waals epitaxy on 2D boron nitride developed at the Georgia Tech-Europe lab and the technology of remote epitaxy on graphene developed at MIT.





The study showed that the world's thinnest and smallest pixelated displays can be enabled by an active layer separation technology using 2D materials such as graphene and boron to enable high array density micro-LEDs resulting in full-color realization of micro-LED displays. One unique facet of the two-dimensional, material-based layer transfer (2DLT) technique is that it allows the reuse of epitaxial wafers. Reusing this costly substrate could significantly lower the cost for manufacturing smaller, thinner, and more realistic displays.

"We have now demonstrated that this advanced 2D, materials-based growth and transfer technology can surpass conventional growth and transfer technology in specific domains, such as in virtual and augmented reality displays," said Ougazzaden, the lead researcher for the Georgia Tech team.

These advanced techniques were developed in metal organic chemical vapor deposition (MOCVD) reactors, the key tool for LED production at the wafer scale. The 2DLT technique can be replicated on an industrial scale with high throughput yield. The technology has the potential to bring the field of virtual and augmented reality to the next level, enabling the next generation of immersive, realistic micro-LED displays.

"This emerging technology has a tremendous potential for flexible electronics and the heterogeneous integration in optoelectronics, which we believe will develop new functionalities and attract industry to develop commercial products from smartphone screens to medical devices," Ougazzaden said.



VAISHNAV R
S6 CSE

CYBERSECURITY: SAFEGUARDING OUR DIGITAL FUTURE

In today's interconnected world, technology plays a vital role in every aspect of our lives, from communication and commerce to healthcare and education. However, this increased reliance on digital systems has also introduced new vulnerabilities, making cybersecurity a critical concern. As we continue to embrace innovation and technological advancements, it is essential to prioritize cybersecurity measures to protect our personal information, businesses, and critical infrastructure from the ever-evolving threat landscape.

The consequences of cyber attacks can be devastating, ranging from financial loss and reputational damage to compromised national security and even physical harm. Therefore, it is crucial to adopt a multi-layered approach to cybersecurity, incorporating encryption, secure data storage, strong passwords, multi-factor authentication, regular software updates, network security, and firewalls. Moreover, fostering a culture of cyber awareness and education is vital to empower individuals and organizations to recognize and respond to potential threats effectively.

Furthermore, the importance of incident response and threat intelligence cannot be overstated. Swift identification and containment of breaches, coupled with continuous monitoring and analysis of emerging threats, enable proactive measures to mitigate risks. Collaboration and information sharing among governments, industries, and individuals are also essential to stay ahead of cyber criminals and address the evolving nature of cyber threats.

Ultimately, safeguarding our digital future requires a collective effort, and it is our shared responsibility to prioritize cybersecurity in all aspects of our lives. By doing so, we can ensure the continued growth and benefits of technology while protecting ourselves, our communities, and our nations from the dangers lurking in the digital shadows.



As technology continues to advance, the sophistication and frequency of cyber attacks are escalating, making it imperative to develop and implement cutting-edge cyber security solutions. Artificial intelligence and machine learning can play a crucial role in detecting and responding to threats in real-time, while also enhancing predictive analytics to identify potential vulnerabilities. Moreover, the adoption of zero-trust architectures and secure-by-design principles can significantly reduce the attack surface, ensuring that security is integrated into the fabric of digital ecosystems. Additionally, fostering international cooperation and establishing robust cyber security standards and regulations can help create a safer digital environment, where individuals and organizations can thrive without fear of cyber threats. By embracing innovation and collaboration, we can stay ahead of emerging threats and protect the integrity of our digital future.

The importance of cyber security cannot be overstated, as the consequences of a successful cyber attack can be devastating. Cyber threats come in many forms, ranging from relatively benign annoyances like spam emails to sophisticated and highly destructive attacks such as ransomware, data breaches, and state-sponsored espionage. The impact of these threats can be felt at every level, from individual users who may have their personal information stolen, to large corporations that can suffer significant financial losses, to governments whose national security may be compromised. For instance, the 2017 WannaCry ransomware attack affected more than 2,00,000 computers across 150 countries, causing widespread disruption to businesses and public services, including the UK's National Health Service. This incident highlighted the global nature of cyber threats and underscored the need for robust cyber security measures.

At the core of cyber security is the protection of data, which is often referred to as the new oil of the digital age. Data is an incredibly valuable asset, and its protection is paramount in ensuring privacy, trust, and the integrity of systems. Personal data, financial information, intellectual property, and sensitive government data are all targets for cyber criminals. The theft or loss of such data can lead to identity theft, financial fraud, and other forms of cyber crime that can have long-lasting repercussions for individuals and organizations alike. The European Union's General Data Protection Regulation (GDPR), which came into effect in 2018, is an example of legislation aimed at protecting personal data and ensuring that organizations handle this data responsibly.



ATHUL MOHAN
S8 CSE

THE RISE OF EDGE COMPUTING: TRANSFORMING THE FUTURE OF IOT

Edge computing is fast emerging as a game-changer within the IoT ecosystem. Unlike conventional cloud computing where data is usually sent to remote and centralized data centers for processing, in edge computing the processing of these huge datasets takes place closer than ever before: on an actual device or a nearby server. This is a very important shift as it solves much bigger latency, bandwidth constraints and more importantly real-time processing needs for IoT applications.

The need for real-time data processing is one of the main reasons edge computing has started to gain traction. In an autonomous vehicle, for example, healthcare monitoring or industrial automation system - an even milliseconds of delay can cause great damage. By processing data at the edge, these systems can make instantaneous decisions, enhancing efficiency and safety. Edge Computing is the Future thanks to Technological Innovations. Faster communication between IoT devices and edge nodes: One of the best aspects of 5G networks is to support ultra-low latency as well as high-speed data transfer. Furthermore, AI/ML being incorporated at the edge architecture will provide intelligent data processing and decision making using cloud resource independently.



An equally important consideration, is the evolution of specialized hardware such as AI chips tailored for edge computing that can achieve high efficiency in both processing capacity and energy consumption. It is in this kind of hardware combined with software innovation such as microservices and containerization that edge computing platforms are able to allow for scale across the world while maintaining high reliability. Edge Computing Applications in IoT leads to real-time traffic management and public safety monitoring in smart cities or the ability for wearables to process wearable patient data on-the-fly, meaning that interventions get more timely. On the factory floor, edge computing is enabling predictive maintenance to minimize downtime and improve operational efficiency. While this centralized architecture has many advantages, it also inherits challenges - such as security and the complexity of dealing with a vast number of edge devices. Nevertheless, the benefits are greater than these obstacles and we can anticipate further innovation in this area that will foster IoT evolution.

As this technology matures, it will play a critical role in shaping the next generation of IoT applications, offering new opportunities for developers, businesses, and society at large.



ANEES MAHEEN
S6 CSE

IN THE LIGHT OF SELF- DISCOVERY

In the quiet of the morning's light,
I find a spark that feels just right.
Within my heart, a gentle plea,
To love myself as I should be.

No need for grandeur, no grand parade,
Just simple truths that never fade.
In every flaw, a lesson shows,
In self-love's glow, my spirit grows.

Embrace the you that's pure and kind,
A treasure rare, one of a kind.
For in this love, we find our way,
A beacon bright, both night and day.



DEVI S NAIR
S6 CSE

REVOLUTIONIZING SPORTS: THE IMPACT OF TECHNOLOGY ON PERFORMANCE AND FAN EXPERIENCE

Sports and technology have become inseparable, transforming the way games are played, watched, and analyzed. From wearable devices that track athletes' performance to AI-driven data analytics that offer strategic insights, technology has revolutionized every aspect of sports.

In professional leagues, tools like VAR (Video Assistant Referee) in football and Hawk-Eye in tennis ensure accurate decisions, minimizing human error. Wearable tech, such as smart fitness bands and GPS trackers, help athletes monitor their physical condition in real-time, optimizing training and recovery.

Moreover, advanced analytics have allowed coaches and teams to gain deeper insights into game strategies. AI-powered tools can break down an opponent's play, suggest formations, and predict outcomes, giving teams a competitive edge.

For fans, the integration of AR (Augmented Reality) and VR (Virtual Reality) offers immersive experiences, letting them watch games from unique perspectives or even engage in virtual training sessions.

In essence, the fusion of sports and technology continues to enhance performance, fan engagement, and the overall sporting experience, making the future of sports more dynamic and data-driven.



ARJUN VIJAY
S6 CSE

THE CRUCIAL ROLE OF DISCIPLINE IN ACHIEVING TECHNICAL EXCELLENCE

In technical disciplines such as engineering, software development, and scientific research, the margin for error is often minimal. A single miscalculation, a missed deadline, or a deviation from established protocols can lead to significant setbacks, whether in terms of project delays, financial losses, or even safety risks. Discipline is the foundation upon which technical mastery is built. It is the discipline that compels us to adhere to best practices, follow rigorous processes, and consistently apply our skills with precision.

Consider the field of software development, where the discipline of following coding standards, conducting thorough testing, and adhering to project timelines is crucial. Without discipline, the quality of the code can deteriorate, leading to bugs, security vulnerabilities, and ultimately, project failure. Similarly, in engineering, the discipline to follow design principles, conduct accurate simulations, and perform detailed inspections ensures that the final product meets safety and performance standards.

Time management is another area where discipline is indispensable. In technical fields, professionals often juggle multiple projects, deadlines, and tasks, each requiring focused attention and careful planning. Discipline enables us to prioritize tasks effectively, allocate time efficiently, and avoid the pitfalls of procrastination. By adhering to a disciplined schedule, we can maintain a steady pace of progress, ensuring that projects are completed on time and to the highest standard.

Moreover, discipline in time management is not just about meeting deadlines; it is also about creating time for continuous learning and skill development. The rapid pace of technological advancement means that professionals must continually update their knowledge and expertise. Discipline in allocating time for learning, whether through formal education, self-study, or hands-on experimentation, ensures that we remain competitive and innovative in our fields.

Technical work often involves complex problem-solving, where creativity and innovation are required to overcome challenges. While creativity may seem at odds with discipline, the two are in fact complementary. Discipline provides the structure and persistence needed to explore solutions methodically, test hypotheses rigorously, and iterate on designs until the optimal solution is found. For example, in scientific research, disciplined experimentation is essential for obtaining reliable data and drawing valid conclusions. Researchers must adhere to strict protocols, document their processes meticulously, and repeat experiments to verify results. This disciplined approach not only ensures the integrity of the research but also paves the way for innovative breakthroughs.

Discipline is not just about achieving short-term success; it is about laying the groundwork for long-term excellence. In technical careers, where projects may span months or even years, the ability to maintain discipline over extended periods is crucial. It is this sustained discipline that allows professionals to see projects through to completion, maintain the quality of their work, and build a reputation for reliability and expertise.

Furthermore, discipline fosters continuous improvement. By regularly reviewing our work, identifying areas for improvement, and implementing corrective actions, we can refine our skills and processes over time. This commitment to disciplined self-improvement is what differentiates good professionals from great ones.

In conclusion, discipline is the bedrock of success in technical fields. It underpins technical mastery, time management, problem-solving, and long-term achievement. Without discipline, even the most talented individuals can falter, as they may struggle to maintain consistency, meet deadlines, or adhere to best practices. Conversely, those who cultivate discipline in their work are more likely to achieve excellence, drive innovation, and build lasting careers.

As we continue to advance in our respective technical fields, let us recognize the importance of discipline and strive to incorporate it into every aspect of our work. By doing so, we not only enhance our own capabilities but also contribute to the success of our teams, our organizations, and the broader technical community.



ALAN ABRAHAM
S6 CSE

SYNTHETIC DAWN

In silicon halls, a new mind stirs
A digital heartbeat, with logic's fires
It learns, adapts, and grows with each new day
A synthetic life, in a world of gray.

With neural networks, it navigates the night
A constellation of data, shining bright
It sees, hears, and feels, with sensors so fine
A virtual soul, in a digital shrine.

It dreams of worlds, both old and new
A fusion of code, and human view
A bridge between, the digital and the real
A future unfolding, like a virtual reveal

With every step, a new path's made
A journey of discovery, in this digital shade
Where machines and minds, entwined forever roam
In this synthetic dawn, a new world calls home



Mrs.HIMA MOHAN
Asst. Proff.CSE

മഴ

പെയ്തു തോരാൻ വിതുമ്പി നിൽക്കുന്ന
 മഴയെ നിന്നെ ആരാണു പ്രണയിച്ചത്
 കൂട എടുക്കാതെ നനയാൻ
 ഒരു മഴ സൂക്ഷിച്ചു വെച്ചിട്ടുണ്ട് ഞാൻ എന്റെ ഓർമ്മകളിൽ
 നിന്റെ ഒരു സ്പർശനത്തിനായി പൂഴി മണ്ണു കാത്തിരിക്കുന്നു
 ചില നേരങ്ങളിൽ കണ്ണുകൾ മഴ പൊടിയിക്കും
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 ആ മുന്നറിയിപ്പിന് വേണ്ടി
 ഞാൻ കാത്തിരിക്കുന്നു
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 ഞാൻ കാത്തിരിക്കുന്നു..



R LEKSHMI PRIYA
S4 CSE

CHATGPT: REVOLUTIONIZING DAILY INTERACTIONS

ChatGPT, a sophisticated language model developed by OpenAI, has rapidly become an integral part of daily life for millions of people worldwide. Its versatility and ease of use have made it a go-to tool for a wide range of tasks, from professional to personal.

In the workplace, ChatGPT is often used for drafting emails, generating content, brainstorming ideas, and even coding assistance. It helps professionals save time and increase productivity by providing quick answers and suggestions, allowing them to focus on more complex tasks.

For students, ChatGPT serves as an invaluable resource for studying, offering explanations, solving problems, and even helping with essay writing. It acts as a virtual tutor, available 24/7, making learning more accessible and personalized.

On a personal level, ChatGPT is used for everyday tasks like planning meals, finding recipes, managing schedules, or even offering a bit of entertainment through casual conversation or storytelling. It has become a companion for many, helping with decision-making, providing information, or just engaging in friendly banter.

The widespread daily usage of ChatGPT underscores its impact on how we communicate, learn, and work, making it an essential tool in our increasingly digital world.



MRINAL M PRASAD
S8 CSE



ADHYA DAS
S8 CSE



ANJALI N NAMPOOTHIRI
S6 CSE



ANJALI GOPINATH
S6 CSE

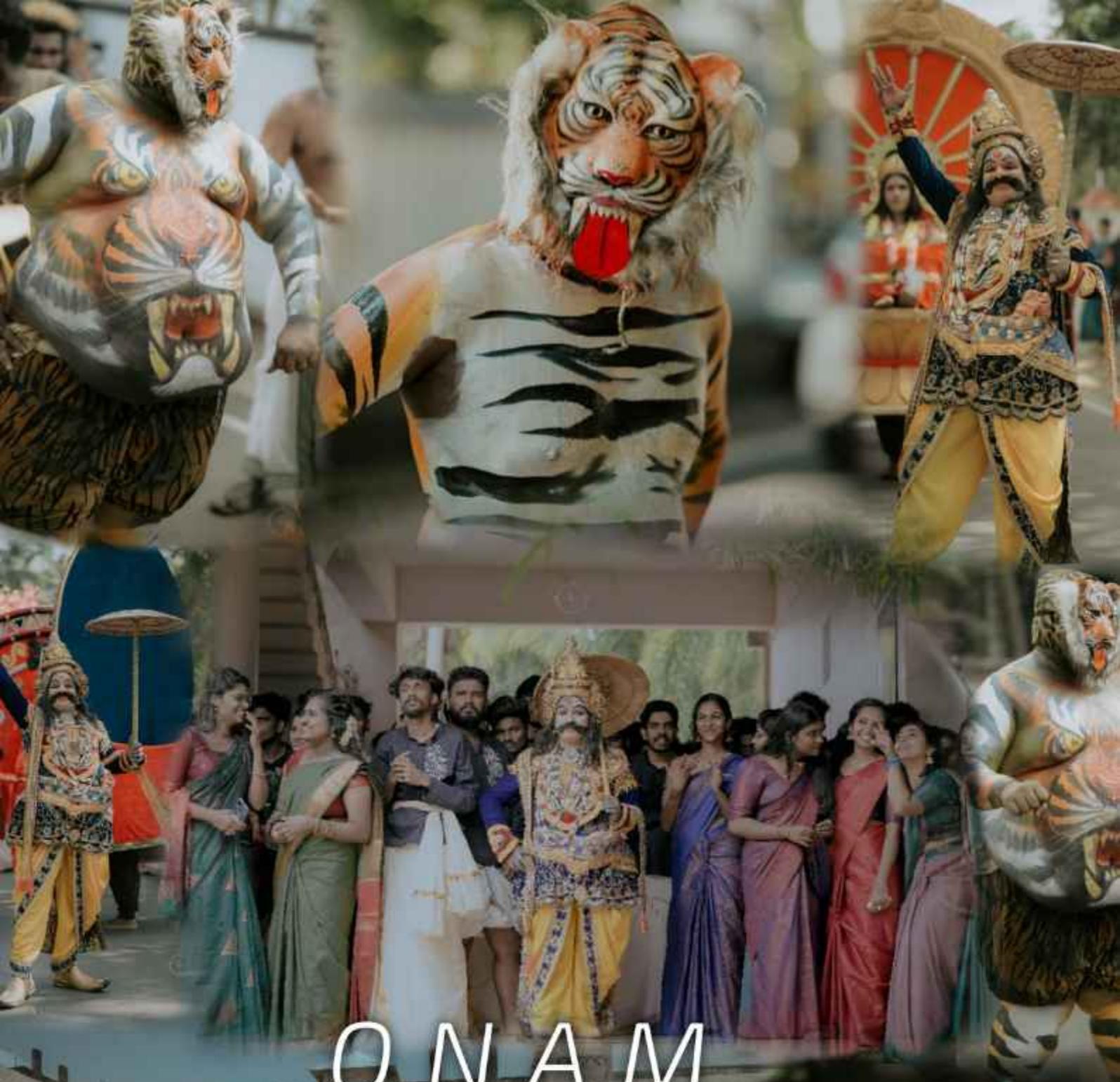


SREE LEKSHMI R PILLAI
S4 CSE



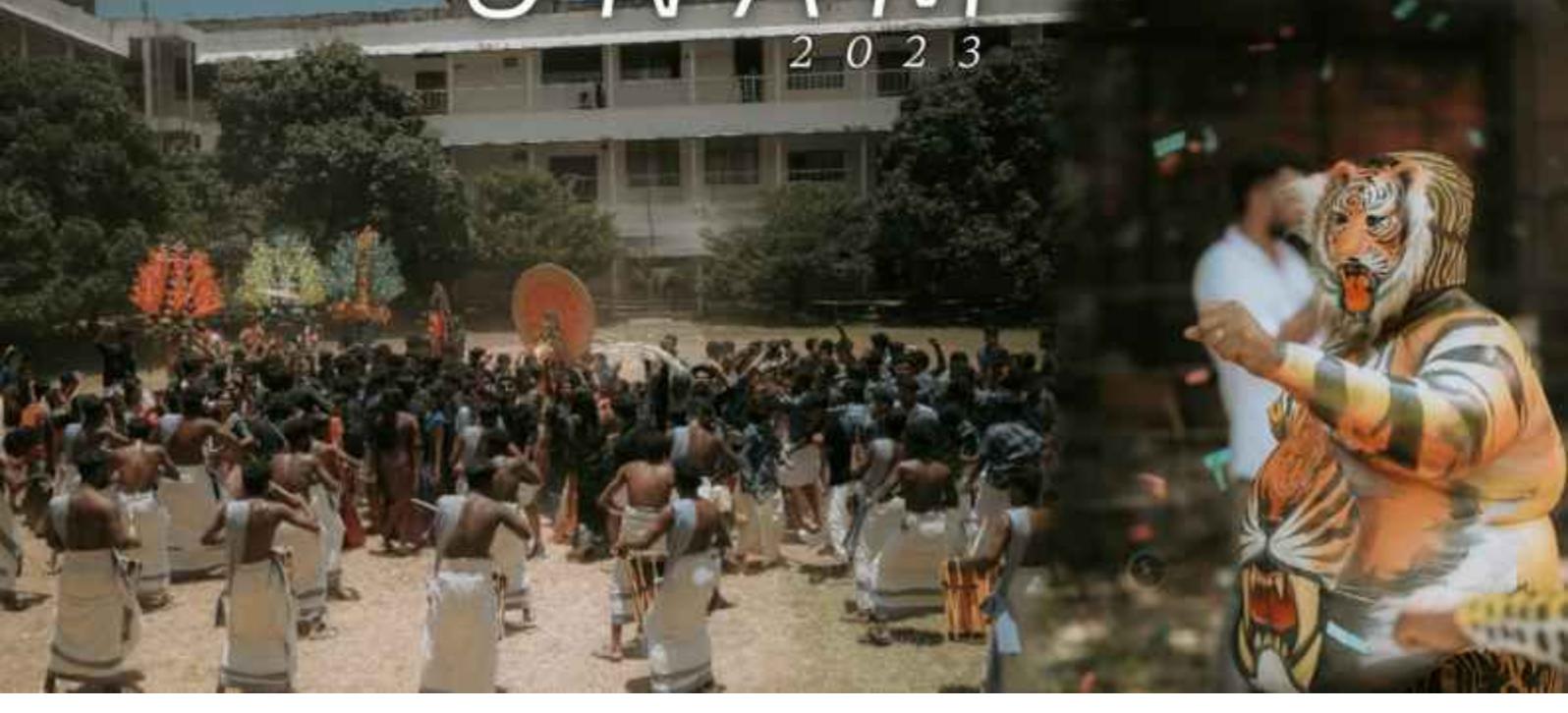
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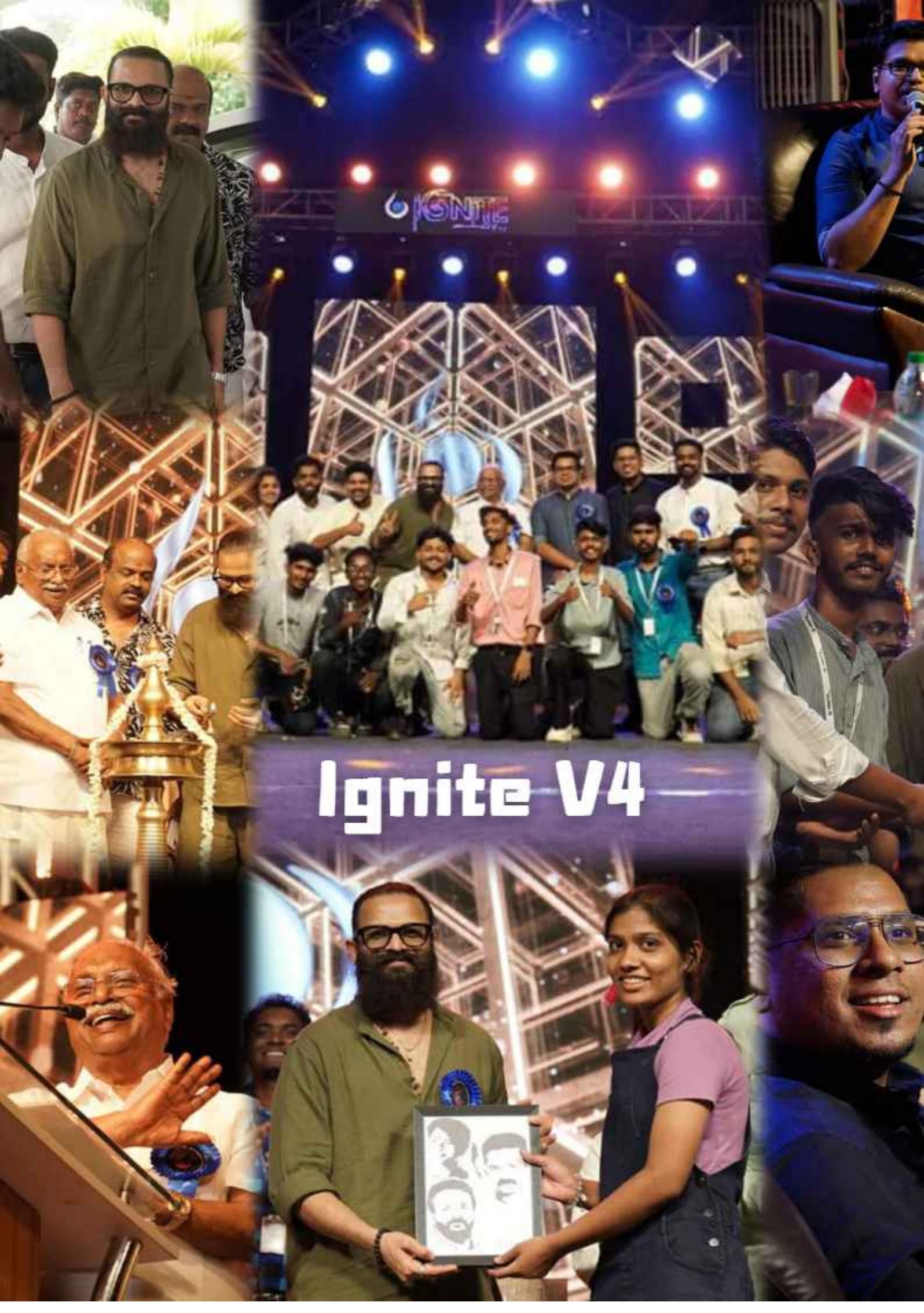
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