

ISSUE 2 | VOL. 1 | 2023-2024

IEEE GTBIT



WHAT DREAMS ARE MADE OF

STANDING ON TOP OF THE WORLD AND
TAKING IN THE AWE-INSPIRING PANORAMIC

TABLE OF CONTENTS



- | | |
|---|-----------|
| From the desk of branch counsellor | 01 |
| Letter from the Chairperson | 02 |
| Glimpse of Editorial Board | 03 |
| About IEEE | 04 |
| Appointment of Execom | 05 |
| Execom Jr. Volunteers | 06 |

TABLE OF CONTENTS

| | |
|--|-----------|
| AGs, Chapters & SIGs | 07 |
| IEEE Day | 08 |
| IC Hack 2.0 - India Council | 09 |
| Jashn - e - Freshers | 10 |
| Nationwide Roadshow on Vega Processor | 11 |
| IEEE Events | 12 |
| Networking Visits and Collaborations | 15 |
| Triumphs of IEEE GTBIT | 17 |
| Project Showcase | 19 |
| IEEE Delhi Section awards | 21 |
| Weekend with WIE | 22 |
| Interships by students | 24 |
| Informative Blogs | 26 |



IEEE GTBIT SB

FROM THE DESK OF BRANCH COUNSELLOR

As the Branch Counsellor of IEEE CTBIT, I am privileged to witness the growth of our student community within a professional framework. Our journey is defined by achievements that underscore our steadfast dedication to excellence. At IEEE GTBIT, we nurture values of ethics, integrity, & a genuine thirst for knowledge. The commitment demonstrated by our students to these principles reflects their character & determination.

Our branches—CS, WIE, FSIG, and Hack GTBIT SIG—collectively enrich our offerings. These chapters provide targeted platforms for skill refinement, personal growth, and the exploration of diverse perspectives, enhancing our student's holistic development. Our educational approach focuses not only on academic and technical proficiency but also on fostering core values and decision-making skills.

Collaborating with fellow IEEE mentors, I am committed to cultivating an environment where these attributes can thrive.

In my role as a branch counsellor, my mission is to foster a culture of integrity, collaboration, and continuous progress. With the support of our dedicated students, we are poised to continue our journey of growth, making positive contributions to the dynamic intersection of technology and education.

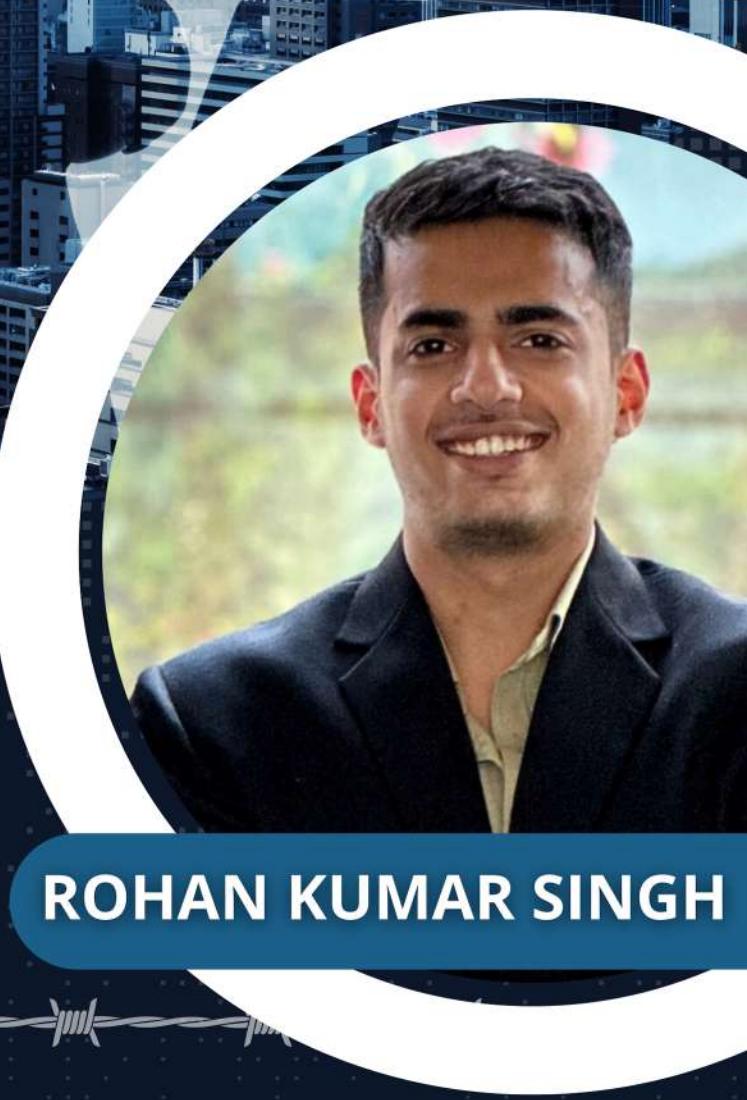
Mr. Mukesh Sahu



<https://www.linkedin.com/in/mukesh-sahu-b087466/>



LETTER FROM THE CHAIRPERSON



ROHAN KUMAR SINGH

AS SOMEONE WITH THE RESPONSIBILITY OF LEADING THE BIGGEST SOCIETY AND STUDENT ORGANIZATION IN THE COLLEGE FOR OVER 2 YEARS, I CAN FIRMLY SAY THAT IEEE HAS HELPED

TO MOLD THE FUTURE OF MYSELF, MY PEERS, MY JUNIORS, AND MANY MORE PEOPLE. WE ALWAYS STRIVE TO BE THE BEST, TEACHING OUR STUDENTS BASIC SKILLS AND SCALING THEM TO ENABLE THEM AND MAKE THEM CAPABLE. OUR IDEOLOGY REVOLVES AROUND THE OVERALL DEVELOPMENT OF THE INDIVIDUAL AND WE PROMOTE IT BY PROVIDING EQUAL OPPORTUNITY TO EVERYONE.

WE HAVE CONDUCTED OVER 300+ MEMBERS AND 70 EVENTS IN THE LAST 2 YEARS, DISTRIBUTED PRIZES WORTH 5,00,000+, HELPED STUDENTS GET OVER 20 INTERNSHIPS, WON NUMEROUS ACCOLADES GLOBALLY, AND PROUDLY REPRESENTED OUR COLLEGE ON THE NATIONAL AS WELL AS GLOBAL STAGE. IT FILLS ME WITH IMMENSE PLEASURE AND A PROUD FEELING TO STATE

THAT JOINING IEEE AND STAYING DEDICATED OVER TIME IS THE SINGLE MOST IMPORTANT THING YOU CAN DO FOR YOURSELF WHILE ENJOYING YOUR COLLEGE LIFE AS A STUDENT. FOR A PERSON WHO DEDICATED ALL 8 SEMESTERS OF HIS COLLEGE LIFE TO THIS SOCIETY, I WOULD ENCOURAGE ALL OF YOU TO PURSUE YOUR DREAMS WITH YOUR BEST INTERESTS AND JOIN US SO WE HELP YOU GROW THEM.





A GLIMPSE OF The Editorial Board



Greetings and welcome to the latest edition of our IEEE magazine, marking another significant half-yearly milestone. We proudly present this collaborative effort shaped by dedicated editorial coordinators who contributed event highlights & crafted the magazine's engaging design, resulting in a testament to our community's spirit.

Within these pages, readers venture on a quest to uncover how IEEE nurtures personal growth. As you delve into the content, you'll see that IEEE nurtures technical prowess and provides a platform for self-expression. IEEE empowers people to pursue their passions, whether in intricate coding or creative pursuits.

Our journey remains committed to the triumph of IEEE GTBIT SB. Just as last year, our collaborative efforts will shape vision into reality. The bonds we cultivate, ideas we exchange, & collective experiences shape IEEE community. As we embark on another year of growth & innovation, we extend heartfelt gratitude to Mukesh Sahu sir for his guidance.

"Like stars in the night sky, our individual brilliance shines brighter when we come together."





IEEE
GTBIT SB

ABOUT IEEE



In the year 1963, a dedicated group of technology enthusiasts collaborated to establish something truly exceptional – the Institute of Electrical and Electronics Engineers, known by its acronym IEEE. This collective is no ordinary assembly; it has a global mission to harness technology for the collective well-being. Their expertise spans diverse technological realms, ranging from enhancing electrical systems' performance to delving into the intriguing domains of AI and data analytics. However, their impact transcends mere gadgets, encompassing the pivotal role of ensuring seamless device compatibility and optimal functionality.



Beyond safeguarding their technological expertise, IEEE offers illuminating conferences, innovative workshops, and enlightening research papers. They stand as pioneers of innovative communication methods, shaping the evolution of robotics and environmentally conscious technologies. Their role extends beyond tech enthusiasts; they assume the role of architects, orchestrating safety and reliability through well-defined regulations.



Adding to their multifaceted influence, IEEE emphasizes a principled approach. Their commitment to ethics steers technology toward a friendlier, more harmonious future. This manifests in their pursuit of groundbreaking innovations and thought-provoking events that amplify the benefits of technology for both humanity and the planet.

IEEE GTBIT SB EXECOM '23

| | |
|---|---------------------|
| Chairperson | Rohan Singh |
| Vice-Chairperson | Mohan Kaushik |
| General Secretary | Nancy Khushwaha |
| Treasurer | Sahib Preet Singh |
| HR Lead | Gursimar Kaur Sodhi |
| HR Coordinator | Gurnoor Kaur Bindra |
| Event Management Lead | Hemant |
| Event Management Coordinator | Shivani Mehta |
| Editorial Coordinator | Dhruv Chopra |
| Editorial Coordinator | Suchitra Sahoo |
| Editorial Coordinator | Eshaa Bhasin |
| Social Media Coordinator | Japjot Singh |
| Social Media Coordinator | Amitoj Singh Chawla |
| Technical and Networking Committee Coordinator | Vudit Dalmia |
| Technical and Networking Committee Coordinator | Prableen Singh |
| Technical and Networking Committee Coordinator | Avneet Kaur |
| Creative Design Lead | Prabhleen Kaur |
| Creative Design Coordinator | Brahmjit Singh |
| Creative Design Coordinator | Shubh Goel |
| Creative Design Coordinator | Nitish Kumar Mahto |
| Webmaster | Chanpreet Kaur |
| Webmaster | Gursagar Singh |
| CS Chapter Chairperson | Binal Singh |
| CS Chapter Vice-Chairperson | Amrit Gaur |
| CS Chapter General Secretary | Devanshi Sharma |
| CS Chapter Event Management Coordinator | Meet Kataria |
| CS Chapter Social Media Coordinator | Aryan Bains |
| WIE Affinity Group Chairperson | Sneha Soniwal |
| WIE Affinity Group Vice-Chairperson | Bhavika |
| WIE Affinity Group General Secretary | Diya Sehgal |
| WIE Affinity Group Event Management Coordinator | Tanjeet Kaur |
| WIE Affinity Group Social Media Coordinator | Yamini Sah |
| Hack GTBIT Lead | Prabhjot Singh |
| Hack GTBIT Co-Lead | Tanu Tomar |
| Hack GTBIT Event Management Coordinator | Avneet Kaur |
| Fintech SIG Lead | Yash Pandey |

IEEE GTBIT SB JR.VOLUNTEERS'23

| |
|----------------------------|
| Agam singh |
| Agampreet Kaur |
| Alisha Chaudhary |
| Angaddeep Singh |
| Arshdeep Singh |
| Arshpreet Singh Ahaluwalia |
| Ashnoor Singh |
| Asis Kaur |
| Dhairyajeet singh |
| Ekas Bhui |
| Falkeet Singh |
| Gagandeep Kaur |
| Gunisha Kaur |
| Gurasees Singh |
| Hargun Kaur |
| Harjas Singh |
| Harmeet singh |
| Hunar Batra |
| Ishika Ahuja |
| Jasdeep Singh |
| Jasmeet Kaur |
| Kulreet kaur |
| Navjyot Kaur |
| Ravinder singh |
| Shyla Kaur |
| Sneha Singh |
| Supret RJ Kaur |
| Tisha Kaur |
| Yash Jain |

EMPOWERING INNOVATION TOGETHER



Women In Engineering Affinity Group

IEEE Women in Engineering (WIE) GTBIT is a chapter within IEEE, dedicated to empowering women in engineering. The main goal is to motivate and increase the positive impact women have in this field.

Computer Science Chapter

The IEEE CS Chapter, also known as the Computer Society, is one of the oldest societies within IEEE. It's centred around computer science and aims to provide every member worldwide with a comprehensive toolkit designed to drive innovations in the field.

Fintech SIG

IEEE FSIG stands for Fintech Special Interest Group at IEEE GTBIT. It is one of the newest additions to IEEE GTBIT SB. It was founded in early 2022 to address topics related to Financial Technology, Financial Literacy, and Financial Independence, especially among young people.

HackGTBIT SIG

The first SIG established in IEEE GTBIT SB was HackGTBIT, also known as the Hackathon and Coding SIG. It was founded in 2021 to nurture a coding culture in higher education. The primary focus is to encourage student participation in hackathons and ideathons, fostering the growth of skilled and competitive programmers among our youth.

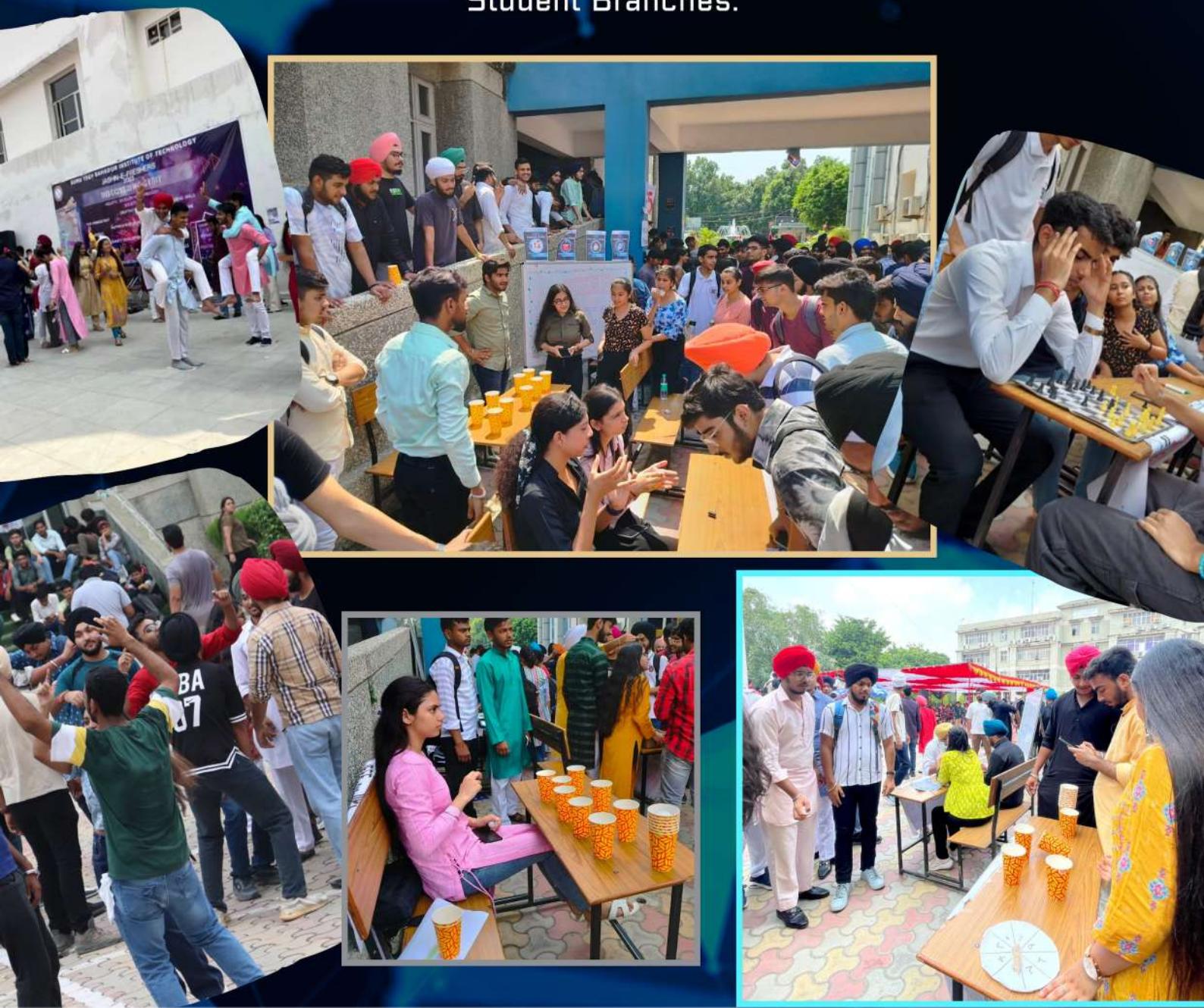
IEEE DAY- A BLISSFUL CELEBRATION

IEEE Day honours the historic occasion of the inaugural gathering of IEEE members in 1884, during which they united to exchange their pioneering technical ideas. Inaugurated in 2009 with a remarkable 80 events spanning the globe.

A core objective of IEEE Day is to spotlight how IEEE members come together within their communities to synergize ideas that harness technology for a more promising future.

Annually, IEEE Day is observed to foster student innovation, inspire new ideas, and facilitate the progress of technical knowledge.

The IEEE Ambassador program offers a unique chance to volunteer within an international team, opening doors to global exposure. Ambassadors play a pivotal role in advancing IEEE Day by promoting it across their corresponding IEEE Regions, Sections, Chapters, Affinity Groups, and Student Branches.



IC HACK 2.0 - INDIA COUNCIL

The IEEE Delhi Section hosted the exhilarating IC Hack 2.0 Phase 1, a 48-hour coding marathon, with GTBIT as the vibrant center for this exciting hackathon. Students from various backgrounds converged at the GTBIT campus, courtesy of IEEE GTBIT SB and the college, for an intense coding and innovation spree.

The event provided round-the-clock resources and an electrifying atmosphere, fostering collaboration and creativity among participants as they worked tirelessly to bring their ideas to life. The celebration included more than 150 Students all across Northern India that had registered for the pan-India Hackathon and joined us on the journey



IEEE GTBIT SB ON JASHN-E-FRESHERS



NATIONWIDE ROADSHOW ON DIGITAL INDIA RISC-V VEGA PROCESSOR

The two-day event, commencing on November 17, began with a virtual Tech talk by Prof. V. Kamakoti, Chief Architect of the DIR-V Program.

Distinguished speakers, including Prof. Krste Asanovic and Mr. Balaji Baktha, delivered enlightening Technical Presentations, providing valuable insights into DIR-V VEGA processors. The event included a 2 Day workshop with over 150 participants registering and our college being the center for Delhi-NCR region. 2 Scientists from CDAC were also invited to teach in the workshop



IEEE EVENTS – WHERE TALENT MEET OPPORTUNITIES

BELOW IS A CONCISE OVERVIEW OF THE EVENTS ORGANIZED BY THE IEEE GTBIT STUDENT BRANCH IN 2023 THAT OFFERED VALUABLE OPPORTUNITIES FOR LEARNING, NETWORKING, AND GROWTH TO THE PARTICIPANTS.

❖ FINANCIAL QUIZ

Date: 30 May 2023

The "Financial Quiz" event, a collaborative effort between the WIE Affinity Group and Fintech SIG of IEEE GTBIT, was a resounding success. Event was hosted by Yash Pandey and Shivam Nagpal. It featured engaging discussions and a gripping quiz, testing participants' financial knowledge.



❖ FINANCE FOR COLLEGE STUDENTS

Date: 31 May 2023

The "Finance for College Students" event, a successful collaboration between the WIE Affinity Group and Fintech SIG of IEEE GTBIT, proved to be highly informative and engaging. Hosted by Bhavika and Diya Sehgal, the event featured Mrs. Astha Gupta, a dedicated finance enthusiast, as the keynote speaker. Mrs. Gupta shared invaluable insights on finance management, stock markets, and the fundamentals of trading, simplifying complex concepts for all attendees.



❖ INTRO TO COMPETITIVE CODING UNDER ROAD TO XTREME

Date: 15 June 2023

The Intro to Competitive Coding was an event organised as part of the Road to Xtreme initiative. The speaker of this event was Siddhant Rai Viksit, IIIT Delhi's Coding Club Administrator. Attendees received essential tools and strategies to excel in competitive coding.

❖ CODE TO XTREME

Date: 16 June 2023

The event 'Intro to Competitive Coding', led by Siddhant Rai Viksit, Coding Club Admin of IIIT Delhi and Chairperson of the IEEE Signal Processing Society at IIIT Delhi, was a coding boot camp aligned with IEEE's 'Road to Xtreme' initiative.



❖ IOT THINK TANK

Date: 25 July 2023

The IoT Think Tank was an exciting and informative online quiz that spanned 30 minutes, featuring a new IoT-related question every minute. This engaging competition was hosted on the Unstop platform and organised by the WIE affinity group of IEEE GTBIT.

❖ DESIGNATHON

DATE: 16 OCT 2023

EEE GTBIT Student Branch hosted Designathon, which included a competition where participants showcased their best designs created on various platforms such as Figma and Canva. Participants crafted compelling visual experiences, fostering collaboration and skills enhancement in the vibrant world of design.



❖ DEVATHON

Date: 17OCT 2023

An exhilarating event hosted by IEEE GTBIT Student Branch in which participants were given different tracks and they had to make websites UI in a short deadline . Devathon was a basic front end development competition where the participants were expected to design the best looking websites with pure HTML and CSS. This competition pushed their technical limits, fostering innovation and collaboration. Participants embraced the opportunity to craft engaging and user-friendly web experiences, making Devathon a thrilling test of coding and design expertise..



❖ CHESS TOURNAMENT

Date: 17OCT 2023

Date: 17 October 2023

Hosted by IEEE GTBIT SB the Chess Tournament featured numerous participants engaging in matches. The tournament provided a platform for strategic gameplay and intellectual competition, showcasing the analytical skills of the participants. The collaborative efforts of IEEE GTBIT SB in organizing this event contributed to its success, fostering a spirit of healthy competition and intellectual engagement among the participants.



NETWORKING VISITS AND COLLABORATIONS

❖ DSSSYWC'22 AT DTU

DATE: 17 September 2022

The IEEE Delhi Section Students - Young Professionals - Women in Engineering Congress 2022 (DSSSYWC '22) was skillfully organized at DTU.. Rohan Singh was a core team member in the Delhi Section and played a pivotal role in the flagship conference. Mohan Kaushik received the Best Campus Ambassador award for his outstanding contributions.



❖ CSIS'23 AT CHANDIGARH UNIVERSITY

DATE: 26th to 27th August 2023

IEEE Student Branch of GTBIT actively participated in CSIS'23 (Computer Society Symposium) at Chandigarh University. The event included expert talks, sessions, an E-Waste Extravaganza, a paper presentation competition and panel discussion on topics such as Advancing Research and development in AI-ML, Integration of AI with blockchain, cyber security, remote sensing and geospatial technology. During the event, Sahib Preet Singh was awarded the Best Campus Ambassador award for his outstanding contributions and dedication to the event.

❖ WIE FEST 2023

DATE: 13 March 2023

IEEE GGSIPU WIE, in collaboration with the IEEE GTBIT WIE Chapter and IEEE ADGITM Student Branch, successfully organized WIE FEST'23. The highlight was the WIE Idea-thon, where participants worked in two stages to come up with creative solutions for challenges faced by women in the industry which included proposing practical solutions and business ideas and improving these concepts further. During the event, Sahib Preet Singh, Prabhjot Singh, Gursimar Kaur and Prabhleen Kaur secured the second position in the Ideathon competition.



NETWORKING VISITS AND COLLABORATIONS



❖ IC HACK

Date: 7th October 2023

The IEEE Delhi Section hosted the exhilarating IC Hack 2.0 Phase 1, a 48-hour coding marathon, with GTBIT as the vibrant center for this exciting hackathon. Students from various backgrounds converged at the GTBIT campus, courtesy of IEEE GTBIT SB and the college, for an intense coding and innovation spree. The event provided round-the-clock resources and an electrifying atmosphere, fostering collaboration and creativity among participants as they worked tirelessly to bring their ideas to life.

❖ EMPOW'HER'

Date: 16 June 2023

EmpowHER was a hackathon centered on women and organised by IEEE GTBIT SB and IEEE IIITD SB, occurred at IIITD. The primary goal of this event was to empower women in the field of engineering. Teams of four participants were tasked with developing practical solutions for specific problems. Spanning 24 hours, the hackathon included both ideation and innovation phases.



❖ Nationwide roadshow on digital India RISC-V Vega Processors

Date: 17th November 2023

The two-day event, commencing on November 17, began with a virtual Tech talk by Prof. V. Kamakoti, Chief Architect of the DIR-V Program. Distinguished speakers, including Prof. Krste Asanovic and Mr. Balaji Baktha, delivered enlightening Technical Presentations, providing valuable insights into DIR-V VEGA processors. s.

THE TRIUMPHS OF IEEE GTBIT SB



The list of IEEE GTBIT members who took part in college competitions organized by IEEE and secured various positions:-

- Sahib Preet Singh, Bhumika Rana, and Anushka Janoti won 2nd prize at the Think and Blink competition organized by IEEE JMI.
- Sahib Preet Singh, Prabhjot Singh, Prabhleen Kaur and Gursimar Kaur won 2nd prize at ideathon WIE-Fest organized by GGSIPU main campus.
- Sahib Preet Singh, Rohan Singh, and Prabhjot Singh secured the second prize in the Vihaan 6.0 Hackathon organized by DTU.
- Prabhleen Kaur, Gursimar Kaur, Tanu Jha and Avneet Kaur won the award of Best WIE Team at Vihaan DTU 6.0.
- Sahib Preet Singh has been appointed as the Editorial Coordinator for IEEE Delhi SSN for the year 2023-24.
- Prabhjot Singh has been chosen for the TAC Committee at IEEE Delhi SSN for the term 2023-24.

THE TRIUMPHS OF IEEE GTBIT SB

- Prabhleen Kaur won 2nd prize at Code To Xtreme organized by IEEE GTBIT.
- Sneha Soniwal won 3rd prize at Code To Xtreme organized by IEEE GTBIT.
- Sahib Preet Singh won the Best Volunteer Award at Technorax by IEEE ADGITM.
- Rohan Singh was felicitated with IEEE Delhi Section Student Network Award in IEEE Delhi Section Award ceremony, 2023.
- Himika Prabhat was felicitated with IEEE Delhi Section Outstanding Volunteer Award in IEEE Delhi Section Award ceremony, 2023.
- Sneha Soniwal was felicitated with IEEE Delhi Section Outstanding WIE Volunteer Award in IEEE Delhi Section Award ceremony, 2023.
- Sahib Preet Singh won the best Campus Ambassador Award at IEEE CSIS 2023 by IEEE CU.
- Bhavika secured the 1st position in a public speaking contest "Goonj" organized by IEEE BITP WIE AG.
- Eshaa Bhasin secured the first position in a general knowledge quiz organized by IEEE WIE GTBIT.
- Vanshika Gupta secured the third position in a general knowledge quiz organized by IEEE WIE GTBIT.
- Suchitra Sahoo secured the first position in Quizedia 2.0 organized by IEEE GTBIT.
- Brahmjot Singh, Shubh Goel, Avneet kaur Dhingra and Jasmeet Singh won the award of Best Idea Team at Empow'Her' IIITD.
- Devanshi Sharma, Gursimar Kaur Sodhi and Gurnnor Kaur Bindra won the award of Best WIE Team at Empow'Her' IIITD.

PROJECT SHOWCASE SECTION

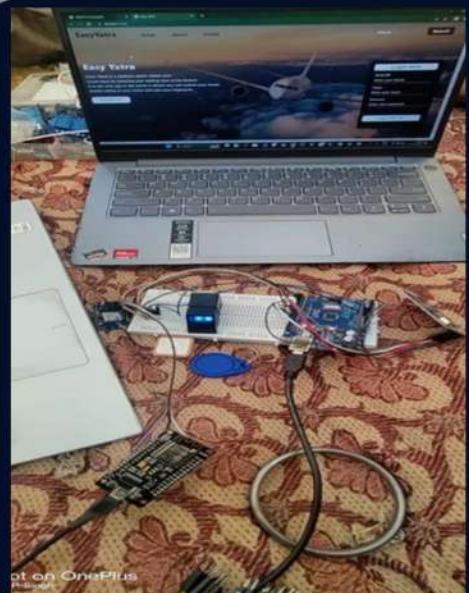
EasyYatra

Team details - Kailash Maurya, Rohan Singh, Sahib Preet Singh and Prabhjot Singh

Project overview - Making travel easy by converting offline check-ins into secure web check-ins and using IoT to track baggage.

Problem statement:

Currently, more than 40 lakhs+ bags are replaced daily, causing significant congestion and delays at airports during the check-in process due to long queues and extensive document verification



Solution:

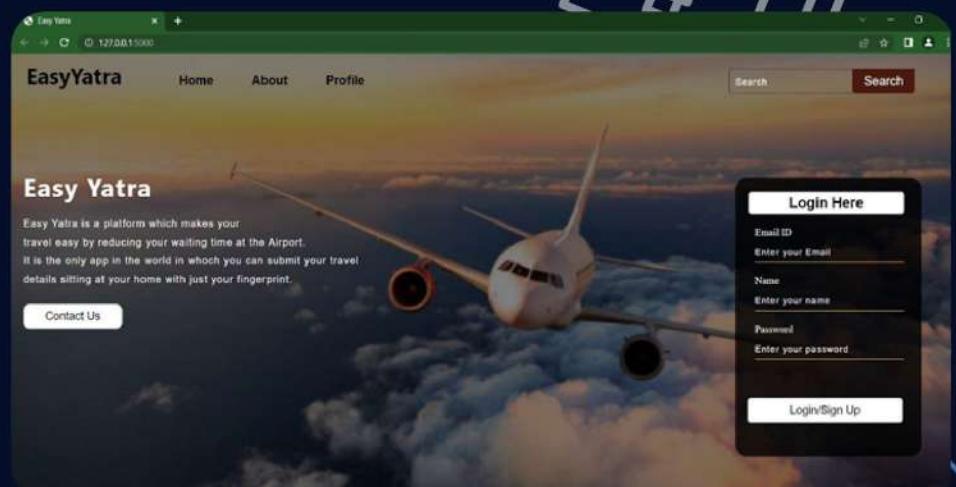
At EasyYatra, a secure web check-in solution using biometrics from the comfort of your home is provided. When arriving at the airport, travellers can simply scan their fingerprints to complete the check-in process. All documents are pre-verified, and for enhanced security, an OTP is issued during the scanning process. Additionally, RFID tags are attached to baggage on the conveyor belt, enabling easy smartphone tracking of luggage location.

Features:

- A user-friendly website and a secure IoT-based setup for travellers.

Tech stack:

- Utilizing Python, HTML, CSS, JS, Flask,
- MySQL, Arduino, and
- Computer Vision technologies



India Detour

Team Name: Dare Divas

Team Members: Avneet Kaur, Gursimar Kaur, Prabhleen Kaur, Tanu Jha.

Problem Statement: Currently, tourists have to navigate various websites and sources to gather information and resources for their trips. This scattered approach often leads to confusion and frustration.

Solution: Our solution involves the creation of a comprehensive website that offers a one-stop platform for both foreign and local tourists. This platform will provide access to a wide range of travel-related information and services, all conveniently available in the user's preferred language.

Benefits:

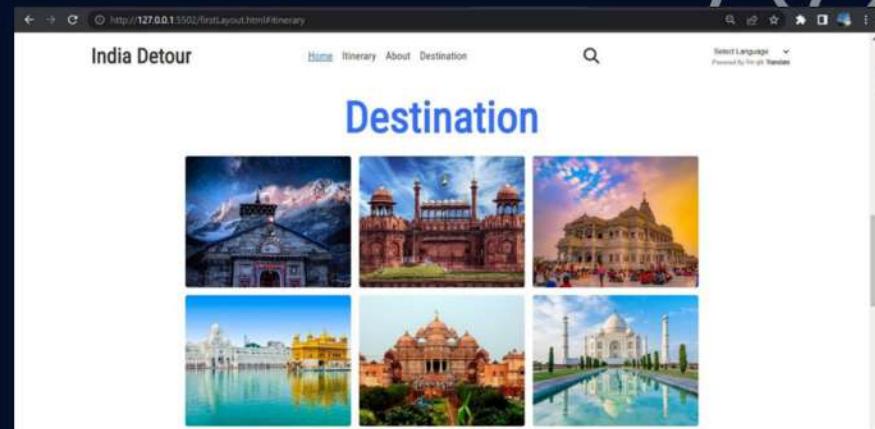
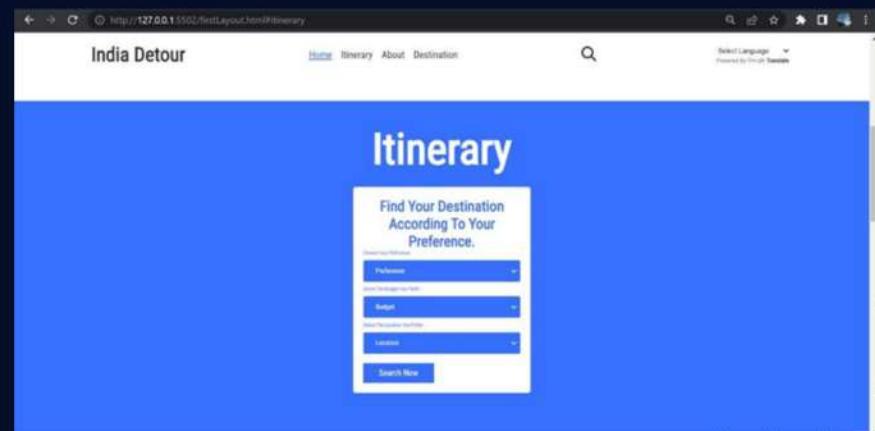
- Streamlined Trip Planning: Tourists can plan their trips efficiently, eliminating confusion and frustration.
- Hidden Gem Discovery: We highlight lesser-known, underrated places that are often overlooked by conventional travel sources.

Features:

- Personalized Recommendations: Tailored suggestions to enhance the user's travel experience.
- Budget Tracking: Tools to help travellers manage their expenses effectively.
- Customized Itinerary: A feature that allows users to create their own personalized travel plans.
- Travel Alerts: Stay informed with real-time travel updates.

- Tech Stack: HTML, CSS, JavaScript, Python.

- Project link:
<https://devfolio.co/projects/india-detours-abce>



IEEE DELHI SECTION AWARDS

In the world of technology and engineering, where groundbreaking innovations are the driving force behind progress, there exists a group of exceptional individuals and teams whose contributions stand out like beacons of brilliance. These luminaries, celebrated by the IEEE Delhi Section Awards, exemplify the spirit of innovation, dedication, and excellence. These award winners represent the pinnacle of volunteering achievement, and their stories inspire us all.



ROHAN SINGH

IEEE Delhi Section Student Network Award

In the words of Rohan Singh, "Our journey is not only about reaching the destination but also about paving the way for others to follow." His mentorship and generous sharing of knowledge have cast an enduring influence on all the members of IEEE GTBIT, leaving an indelible legacy of inspiration.



SNEHA SONIWAL

IEEE Delhi Section Outstanding WIE Volunteer Award

HIMIKA PRABHAT

IEEE Delhi Section Outstanding Volunteer Award

It's the work of visionaries like Rohan Singh, Himika Prabhat & Sneha Soniwal that brings us closer to this reality. Their remarkable contributions serve as a testament to the endless possibilities that innovation, dedication, and excellence can unlock.

WEEKEND WITH



"Weekend With WIE" is an initiative driven by the IEEE GTBIT WIE AG team on the LinkedIn platform. It's dedicated to fostering knowledge and collaboration by sharing insightful posts every weekend. Following are some of the major topics where "Weekend With WIE" has shed light:



• WOMEN-FOCUSED

- Choice-Chance-Change: In today's digital age, women boldly embrace tech, shatter stereotypes, excel in diverse fields, and empower future generations to foster gender equality in technology.
- Women in STEM: Discover inspiring stories of strong women breaking barriers and inspiring progress across various fields. They unite in a supportive community to redefine empowerment.

- Empowering Women: Expanding Roles in the Armed Forces: Harnessing diversity to strengthen our armed services.

- Celebrate Women in Science and Technology: Together, we foster inclusivity, unlocking the full potential of female innovators and forging a brighter future where gender is no barrier to progress.

• TECHNICAL

- Explore the dynamic connection between robotics, education, and healthcare, shaping a brighter, smarter, and healthier future.

- Navigating the React.js Journey: Your roadmap to success in the world of React.js.



- **FUN QUIZZES**

-Challenge yourself with a brainstorming quiz on Angular vs. React, perfect for web developers.

- Test your knowledge with a General Knowledge quiz because the perpetuation of liberty relies on the dissemination of general knowledge among the people.



- **OPPORTUNITY AWAITS**

- Empowering Women: Unlocking Opportunities in Government Sector Internships.

- **HOT TOPICS**

- Stay updated on Chandrayaan-3, where women scientists and engineers continue to play crucial roles in India's lunar exploration efforts.

INTERNSHIPS



Interned at



Harmeet Kaur
Batch of 2021-25



Interned at



Silver Touch Tech

Shivam Nagpal
Batch of 2021-25



Interned at



Chanpreet Kaur
Batch of 2022-26



Interned at



Shreyansh Swami
Batch of 2021-25



Interned at



CyberSmith Secure



Acciojobs

Rohan Singh
Batch of 2020-2024



Interned at



Meet Kataria
Batch of 2021-25



Interned at



Gaurav Singh Kalra
Batch of 2021-25



Interned



Defense Research and Development Organization



Bharat Heavy Electricals Limited

Sneha Soniwal
Batch of 2020-24



Interned at



Collegedunia



Punjab National Bank



Interned at



Yotika Israni
Batch of 2020-24



Interned at



AccioJob

Dhruv Chopra
Batch of 2021-25



Interned at



Medoc

Tanu Tomar
Batch of 2021-25

INTERNSHIPS





DR. TESSY THOMAS

KALPANA CHAWLA

CHAMPIONING CHANGE WITH WOMEN IN STEM

In the realm of Science, Technology, Engineering, and Mathematics (STEM), women have shattered glass ceilings and made remarkable contributions globally. India, a nation known for its diversity and innovation, proudly boasts of several exemplary women who have left an indelible mark in STEM fields.

One outstanding example is Dr. Tessy Thomas, often referred to as the "Missile Woman of India." As the Director of the Advanced Systems Laboratory, she played a pivotal role in the development of India's indigenous ballistic missile defence systems, showcasing women's prowess in aerospace engineering. Another remarkable figure is Kalpana Chawla, an astronaut who emigrated from India to the United States. She became the first woman of Indian origin in space and made significant strides in aeronautical engineering.

These women epitomize the potential and resilience of women in STEM, proving that gender is no barrier to success in the pursuit of knowledge and innovation. Their achievements continue to inspire countless others to follow in their footsteps, ushering in a brighter future for women in STEM in India and beyond.

THE ESSENCE OF DATA MINING



- Data mining is the process of extracting valuable insights from raw data, serving as a crucial bridge between data and decision-making. It employs specialized techniques such as classification, clustering, regression analysis, association rule mining, and anomaly detection.
- These methods categorize data, unveil patterns, make predictions, discover relationships, and pinpoint anomalies. The applications of data mining span various fields, including business, healthcare, finance, and more. Its ability to provide actionable knowledge empowers organizations to make informed decisions, optimize processes, and drive innovation.

NAVIGATING THE CYBERSECURITY LANDSCAPE: SAFEGUARDING YOUR DIGITAL WORLD

In an era where sensitive information and critical operations are conducted online, cybersecurity has become a cornerstone of modern society. The interconnected nature of our digital world demands robust protection against a wide range of threats, from malicious software to sophisticated hacking attempts.



To navigate the cybersecurity landscape effectively, it's essential to recognize the various threats that exist in the digital realm. These threats range from phishing attacks, where criminals impersonate legitimate entities to extract personal data, to ransomware attacks that encrypt vital files until a ransom is paid. As technology has given rise to cyber threats, it also provides tools to combat them. Artificial intelligence and machine learning algorithms are being used to detect and mitigate potential security breaches in real-time, enhancing the effectiveness of cybersecurity defences.

As technology evolves, so too will cyber threats. To avoid these cyber threats, a proactive approach is imperative. It involves a commitment to continuous learning, being informed about emerging threats, and adapting security strategies accordingly. We can all work together to create a more secure online environment by being updated with emerging technology, following industry best practices, and being educated.



ROAD MAP TO LEARN DSA AND ALGOS

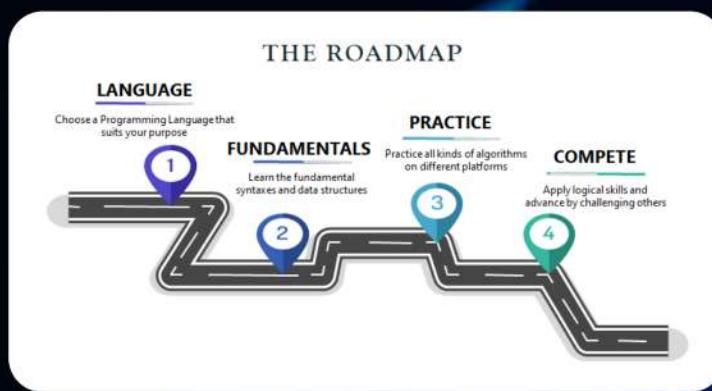
A roadmap to Data Structures and Algorithms (DSA) involves a step-by-step plan to progressively learn and master the fundamental concepts, techniques, and problem-solving skills in this field. Here is a comprehensive plan to navigate you through the steps:

1. Choosing a Programming Language:

Learning a programming language is essential for excelling in Data Structures and Algorithms (DSA) interviews.

Your chosen language is the tool that connects your DSA understanding to practical solutions. It showcases your problem-solving skills and technical abilities.

Pick a language that suits you best, whether it's Python, Java, C++, or another. This language will help you express your solutions effectively and impressively during interviews.



2. Time and Space Complexity Analysis:

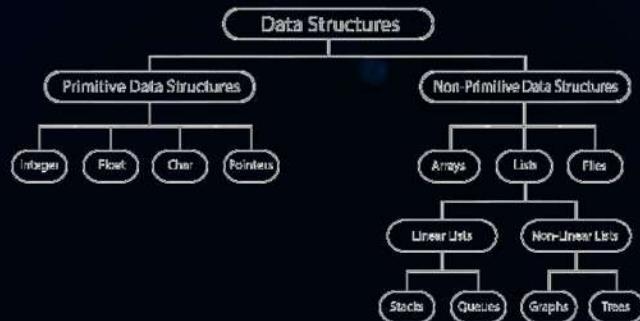
Time complexity measures an algorithm's execution time as input grows, while space complexity gauges its memory usage. These concepts are vital for interviews, where you might optimize algorithms. Practice analyzing complexities of common algorithms, like sorting or searching, and selecting the best approach based on time and space factors.

ROAD MAP TO LEARN DSA AND ALGOS

A3. Master Data Structures and Algorithms:

To address challenging problems, start by understanding fundamental tools like arrays, linked lists, stacks, queues, trees, and graphs.

Understand how they work and affect time/memory. Also, master algorithms like sorting, searching, dynamic programming, and graphs. Select the most effective methods for problem-solving.



4. Problem Solving:

- Practice solving coding problems on various platforms like LeetCode, HackerRank, and Codeforces.



- Solve problems related to a wide range of topics you've learned.



When practicing, diversify your difficulty levels. Avoid restricting yourself to a single level; instead, tackle a range of challenges. This strategy broadens your exposure and prevents limited familiarity with higher-difficulty questions.



5. Participating in Contests:

Join coding contests on platforms like LeetCode and Codeforces to enhance your problem-solving skills.

JOIN
IEEE
TODAY



This is where a student is either highly motivated to join us or still thinking about his success as a prominent entrepreneur. The case can be either, but you should know that the IEEE Students team is always active and recruiting. If you want to join us or have any doubts regarding the cell, its activities, etc.

Please contact us today on:-

Mr. Mukesh Sahu(Branch Counsellor, IEEE-GTBIT):

+91 9212425434

Rohan Singh(Chairperson, IEEE-GTBIT):

+91 9718447777

Sahib Preet Singh(Treasurer, IEEE-GTBIT):

+91 9718779910