

# ANNUAL REPORT: 2023-2024

## Hack slash



Google Developer Student Clubs

A large black circle containing the Hack Slash logo. The logo consists of a red code symbol (</>) followed by the text "hack slash" in white lowercase letters.

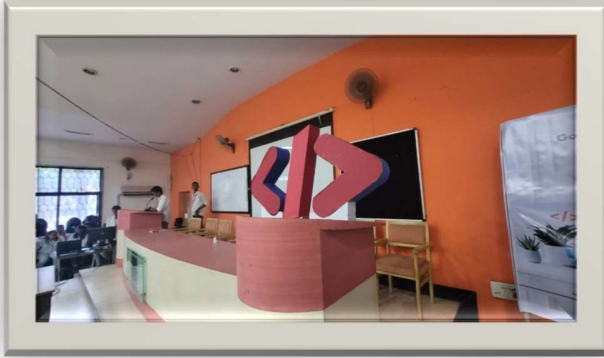
</> hack slash

# About Hackslash

"Team Hackslash" - is the one and only premier coding club of GECA. Now, this club of college is getting popular day by day among students by launching modules and courses on Competitive Programmig, Web Development, UI/UX Design, App development etc. All efforts go to students and the faculty advisor of this club, Dr. Anjana Ghule Ma'am, who are trying continuously to improve this club, and spreading awareness about coding, and create an atmosphere of healthy coding competitions among students. Team Hackslash, with its growing popularity. well-known Google's Developer's Student Club (GDSC) and Algozenith are also working under Hackslash and this community growing very fast.

## Introductory Orientation

A team of enthusiastic and energized students recently hosted an orientation session of HACKSLAH for students for the year 2023–24. Ex, Hackslash President Shashank Shetty and Ex. GDSC Lead Om Duragkar shared the journey of this club and activities conducted for the betterment of students in the past years. Faculty Advisor Dr. Anajana Ghule Ma'am also guided students on this precious program. This club is hoping and trying to achieve new milestones in their journey.



# Glimpses of orientation





# ORIENTATION SESSION

Date: 21st August 2023

Day: Monday

Venue: Electrical Seminar Hall

On 21st August 2023, "Google Developer Student Clubs" i.e, GDSC in association with Hackslash kick started the journey of 2023-24 with the "Orientation Session". Around 150 students showed their active participation in the event. The session began with a fun quiz for students. The event was attended by **Hon. Mrs. Anjana Ghule Ma'am and Hon. Prof. Mr. S.P. Atipamulu sir**. They enlightened the students with their valuable words.

Further, the event host, Sujit Magar introduced the students with what GDSC is and how to join GDSC so that they can be a part of this amazing community. The event proceeded with welcoming the new lead - Riddhi Vernekar and the new core team.



Further, the event was addressed by our first speaker Mr. Om Duragkar- Ex GDSC GECA lead. He shared his journey and experiences with the students and encouraged them to join GDSC. He also shared the path to learn Web Development and to improve technical skills. Then, our next speaker Mr. Shashank Shetty- Ex Hackslash lead guided the students by his experiences and also gave students a brief idea about Product Management. These valuable guidance by the speakers will surely help the students in future and will clearly make a difference.

The crowd was further addressed by the GDSC lead- Riddhi Vernekar and presented the lead note on her behalf. Then the GDSC Cloud lead- Atharva Shete gave students a brief idea about the upcoming opportunities from GDSC. Students were excited to see what all GDSC has planned for the year ahead. In this way, the event was completed successfully with the cooperation of whole team.

# Modules Launched

We've launched our new teaching modules designed especially for students. Modules cover some cool stuff like competitive programming, web development, android programming, and UI/UX development. It's like a treasure chest of knowledge

Milestone Achieved! The leaders of our competitive programming and web development teams have successfully completed the first module. It's like finishing the first level of a video game—pretty awesome.

we're on the lookout for developing the best coders and software developers on this epic journey.

- ✓ Fricode Friday
- ✓ UI/UX Workshop
- ✓ Modules and Introductory Sessions of C and C++ Development
- ✓ Modules and Introductory Sessions of Competitive Programming
- ✓ Module of Sessions of Web Development
- ✓ Projects Built Under Web Development

# Fricode Friday

Fricode Friday stands as an inclusive platform within the HackSlash community, fostering an environment where students can seek clarification and guidance on a wide array of topics encompassing academics, club-related initiatives, and broader issues within the realm of information technology. Rooted in the spirit of collaboration and knowledge sharing, Fricode Friday sessions are structured to accommodate queries ranging from academic coursework to club activities and beyond.

Central to the success of Fricode Friday is its emphasis on coding-related inquiries, reflecting HackSlash's core mission of nurturing technical proficiency and problem-solving skills among its members. Students are encouraged to pose questions pertaining to programming languages, algorithmic challenges, software development methodologies, and other technical subjects. Through interactive discussions and hands-on demonstrations, attendees gain valuable insights into the intricacies of coding and receive practical guidance on overcoming programming hurdles.

Moreover, Fricode Friday serves as a forum for dialogue and engagement between students and the broader college community, particularly the Information Technology department. Participants have the opportunity to address concerns, share experiences, and explore collaborative opportunities with faculty members, fellow students, and industry professionals. By facilitating cross-disciplinary interactions and knowledge exchange, Fricode Friday contributes to a vibrant ecosystem of learning and innovation within the college environment.

Key to the success of Fricode Friday is the collective expertise and dedication of the HackSlash leadership team, including President Amey Kulkarni and Vice President Sujit Magar. As core members of the club, they play an instrumental role in orchestrating and facilitating these sessions, ensuring that all attendees receive comprehensive and insightful responses to their queries. Their leadership and commitment to fostering a supportive and inclusive learning environment underscore the ethos of HackSlash and contribute to the continued growth and success of the club.

Throughout both modalities, the leadership team, led by President Amey Kulkarni and Vice President Sujit Magar, ensured a seamless and enriching experience, underscoring HackSlash's commitment to accessibility, inclusivity, and student-centric learning.

## UI/UX Workshop

The UI/UX Workshop held live on Google Meet served as a pivotal event within the HackSlash community, offering attendees a comprehensive exploration of user interface (UI) and user experience (UX) design principles. Led by Atharva Kulkarni, the esteemed UI/UX Team Lead, this session exemplified HackSlash's commitment to providing high-quality educational experiences led by industry experts.

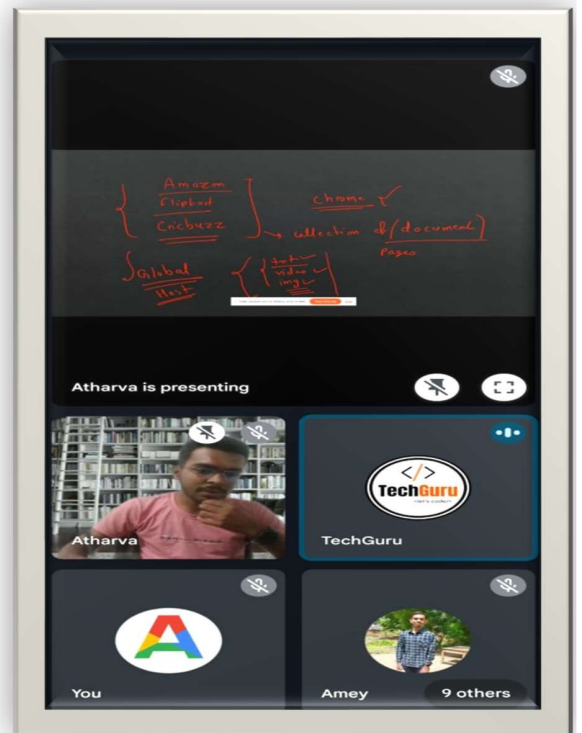
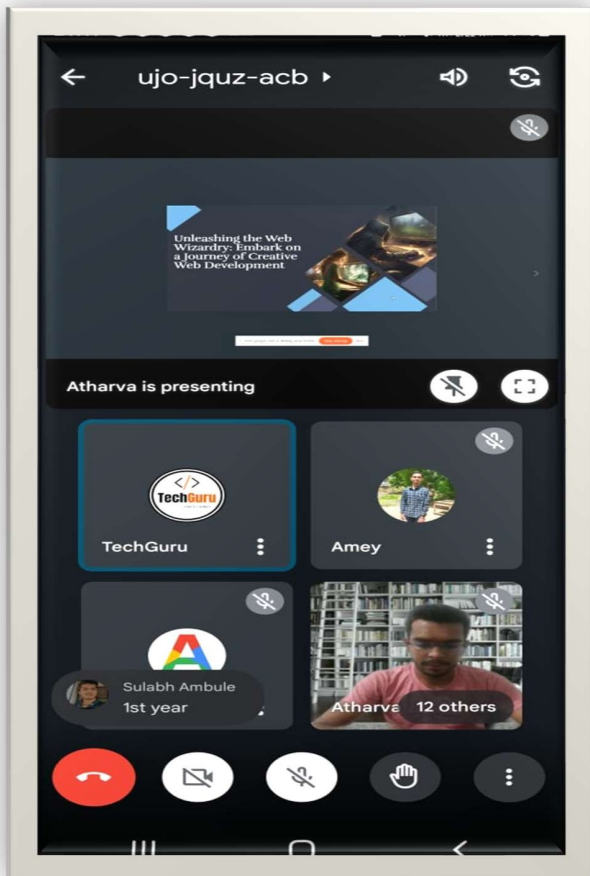
Through dynamic presentations, interactive discussions, and practical exercises, participants delved into the nuances of designing intuitive and visually appealing interfaces that prioritize user satisfaction and engagement.

Moreover, the UI/UX Workshop provided a platform for attendees to explore the intersection of design and technology, highlighting the pivotal role of UI/UX in enhancing the usability and accessibility of digital products and services.

Through case studies and practical examples, participants gained a deeper appreciation for the impact of thoughtful design on user engagement, retention, and overall satisfaction. By immersing themselves in the iterative design process, attendees learned to empathize with users, identify pain points, and iterate on design solutions to create seamless and delightful user experiences.



# Glimpses of UI/UX module



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# Module of Competitive Programming

The Module and Introductory Session of C and C++ held by Akash Shinde, a seasoned competitive programmer renowned for his expertise on platforms like Leet Code and CodeChef, provided participants with a comprehensive introduction to the foundational concepts and practical applications of these programming languages.

This module, designed to equip students with essential coding skills, served as a cornerstone in HackSlash's mission to foster technical proficiency and problem-solving abilities among its members.

the session immersed participants in a dynamic learning environment, combining theoretical insights with hands-on programming exercises to reinforce key concepts. Through interactive discussions and coding demonstrations, attendees gained a solid understanding of the syntax, data types, control structures, and functions inherent to both C and C++.

The Competitive Programming Module in HackSlash provided participants with an immersive and rigorous learning experience, designed to sharpen their algorithmic problem-solving skills and prepare them for success in coding competitions and technical interviews. Led by experienced mentors and competitive programmers within the club, this module delved into advanced algorithms, data structures, and optimization techniques, equipping participants with the tools and strategies needed to tackle complex coding challenges with confidence. Through a combination of lectures, coding exercises, and simulated contests, participants honed their abilities to analyze problems, devise efficient solutions, and implement algorithms under time constraints. Emphasizing hands-on practice and peer collaboration, the module fostered a dynamic learning environment where participants could engage with fellow enthusiasts, share insights, and learn from one another's experiences, ultimately empowering them to excel in the competitive programming arena.

The Module of Sessions of Web Development within HackSlash propelled participants into the realm of practical application, where theoretical knowledge met real-world

implementation. Through a series of meticulously crafted sessions, participants embarked on a journey to conceptualize, design, and develop fully functional web applications that address real-world challenges and serve tangible purposes. These projects, meticulously curated to mimic real-world scenarios, not only honed participants' technical skills but also instilled in them a deep understanding of the complexities and intricacies inherent in modern web development.

The projects undertaken in this module spanned diverse domains, ranging from management software to e-commerce platforms, each meticulously designed to address specific needs and requirements. Participants delved into the development of management systems such as library management, hostel management, and banking systems, leveraging frontend technologies like HTML, CSS, and JavaScript to create intuitive user interfaces that streamline administrative tasks and enhance operational efficiency. Additionally, projects like billing systems, catalog management systems, and appointment systems were crafted with precision, offering practical solutions to common challenges encountered in various industries.

Leveraging a full-stack approach, participants immersed themselves in the intricacies of backend development, employing technologies such as PHP, Node.js, and MongoDB to build robust and scalable server-side architectures. The integration of AJAX and JQuery facilitated dynamic content loading and interaction, while the utilization of MySQL databases ensured efficient data management and retrieval. Furthermore, projects were meticulously tested and optimized to ensure seamless performance and reliability, adhering to industry best practices and standards.

Beyond the technical aspects, these projects exemplified the collaborative spirit and innovative mindset fostered within the HackSlash community. Participants worked in teams, leveraging each other's strengths and expertise to overcome challenges and achieve collective success. The culmination of their efforts resulted in a diverse portfolio of web applications that not only showcased their technical prowess but also demonstrated their ability to translate conceptual ideas into tangible solutions that have real-world impact. Through this module, participants not only acquired valuable technical skills but also cultivated a mindset of creativity, adaptability, and resilience, preparing them to thrive in the dynamic landscape of modern web development.

# Web Development Projects

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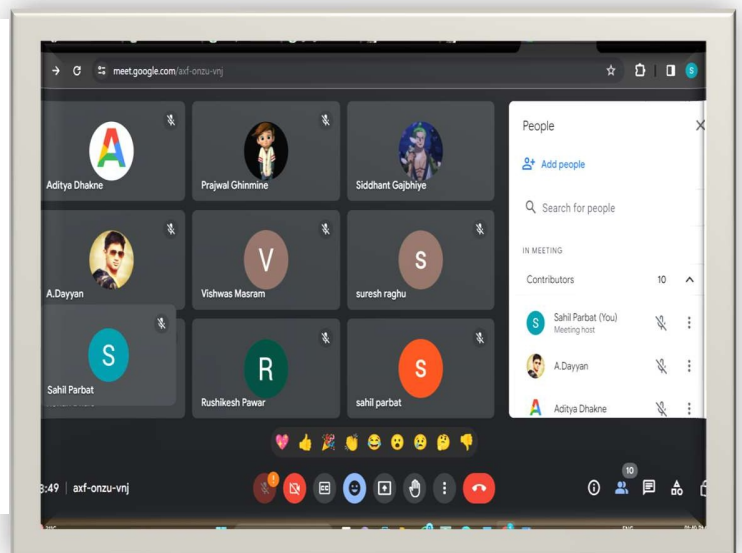
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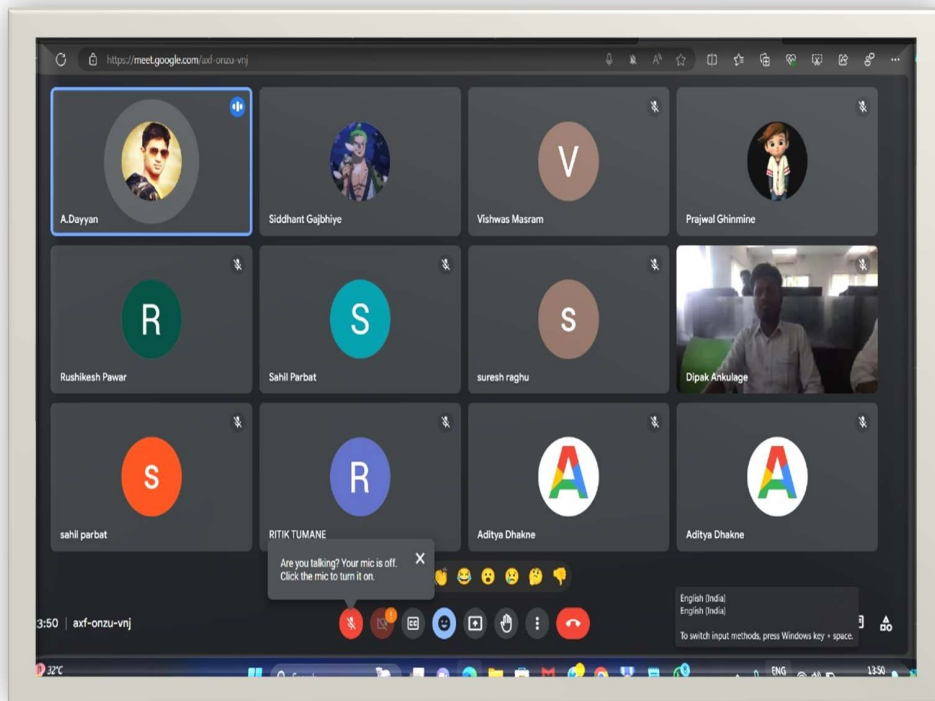
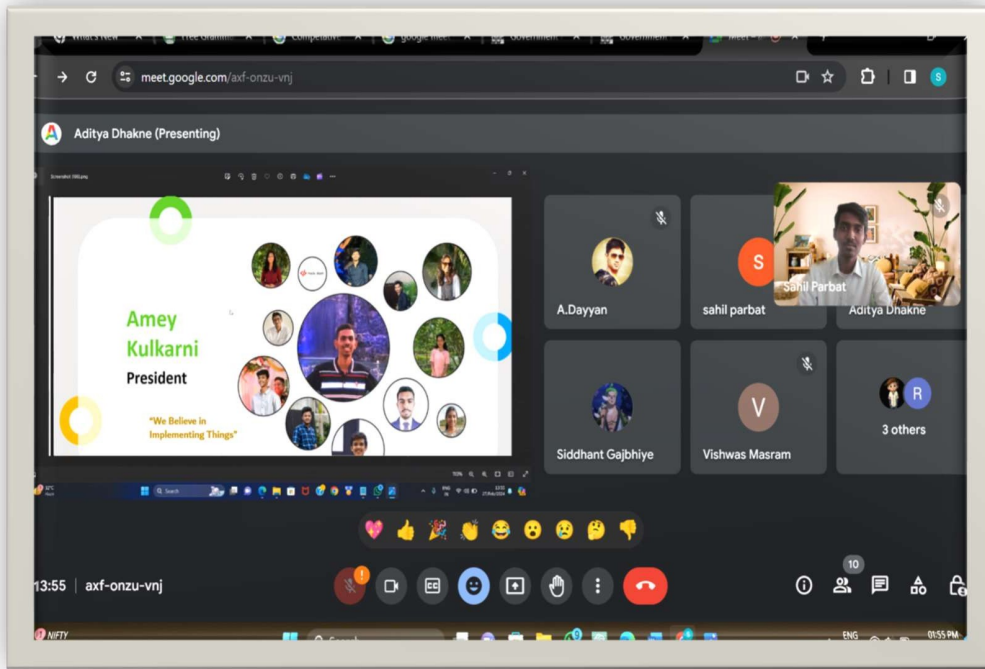
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# Complimentary Session

The complimentary sessions held by HackSlash team members across various domains, including Android, Web Development, Cybersecurity, and Competitive Programming, served as invaluable supplements to the club's core curriculum. These sessions provided participants with specialized insights, advanced techniques, and industry best practices tailored to each respective field. Led by experienced team members with expertise in their respective domains, these sessions offered participants the opportunity to deepen their understanding, refine their skills, and stay abreast of the latest trends and advancements. Whether exploring the intricacies of mobile app development, delving into the nuances of web security, or honing algorithmic problem-solving skills, these complimentary sessions enriched participants' learning experiences and empowered them to excel in their chosen areas of specialization within the vast landscape of technology.

Furthermore, the complimentary sessions served as a platform for team members to share their expertise, passion, and experiences with their peers, fostering a sense of camaraderie and mutual support within the HackSlash community. By leveraging the collective knowledge and resources of its members,





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# Seminar on “What After Engineering?”

The seminar organized under the HackSlash club, titled "What after Engineering," featuring Mayur Makhija, Founder and Chief Mentor at CrossQ, held on March 16, 2024, Saturday, emerged as a pivotal event encapsulating the club's commitment to holistic student development. With an aim to provide students with valuable insights and guidance for their post-engineering endeavors, Mayur Makhija delivered an inspiring and enlightening session, steering attendees towards informed decisions regarding their future paths. Throughout the seminar, Mayur Makhija leveraged his expertise and experience to elucidate various career avenues available to engineering graduates, emphasizing the importance of aligning personal interests and aspirations with professional pursuits. By delving into topics such as higher education options, industry trends, entrepreneurship opportunities, and skill development pathways, Mayur Makhija empowered attendees to navigate the transition from academia to the professional world with confidence and clarity. Furthermore, his motivational discourse instilled a sense of purpose and determination among participants, motivating them to proactively pursue their goals and aspirations beyond the realms of traditional engineering careers. The seminar not only served as a beacon of guidance for students but also epitomized HackSlash's commitment to providing holistic educational experiences that empower individuals to thrive in an ever-evolving landscape.

The seminar transcended mere career counseling, delving into the essence of personal growth, resilience, and adaptability requisite in today's dynamic professional sphere. Mayur's poignant anecdotes and real-world examples resonated deeply with attendees, fostering a sense of purpose and direction amidst the uncertainties of the post-graduate landscape. Moreover, his emphasis on the importance of continuous learning, networking, and seizing opportunities underscored the transformative potential inherent in every engineering graduate.

Beyond imparting knowledge, the seminar fostered a sense of camaraderie and solidarity within the HackSlash community, as students exchanged ideas, aspirations, and concerns in a nurturing environment. Mayur Makhija's unwavering commitment to mentorship and empowerment left an indelible mark on the hearts and minds of attendees, igniting a spark of inspiration that would guide their endeavors long after the event's conclusion.

In essence, the "What after Engineering" seminar epitomized the essence of HackSlash's mission to equip students not just with technical acumen but with the resilience, adaptability, and foresight necessary to carve out meaningful and fulfilling careers in the ever-evolving landscape of technology and beyond.











## Google Developer Student Clubs

### **GOOGLE CLOUD STUDY JAM:**

The Google Cloud Study Jam was a one month educational program aimed at helping participants gain a deeper understanding of Google Cloud Platform (GCP) services and enhance their cloud computing skills. This report provides an overview of the key activities and outcomes of the study jam.

### **Study Jam Overview:**

- **Duration: 03/10/2023 to 03/11/2023**

### **Objectives:**

The primary objectives of the Google Cloud Study Jam were as follows:

- I.** To introduce participants to the core Google Cloud Platform services and tools.
- II.** To provide hands-on experience through labs and practical exercises.
- III.** To facilitate collaboration and knowledge sharing among participants.
- IV.** To prepare participants for Google Cloud certification exams.
- V.** To provide some amazing internship to the participants.
- VI.** To provide students with exciting Google goodies.

### **Activities and Highlights:**

- **"Let's Explore Cloud"**, an online Introduction session for Google Cloud Study Jam (GCSJ) was held on 23rd of September 2023 in which our GDSC GECCS Cloud lead, Atharva Shete explained the students regarding the Cloud and its importance and also about the pathway to complete the Google Cloud Study Jam. Around 100 students were a part of this session.



- **"GOOGLE CLOUD STUDY JAM SESSION ONE: GENERATIVE AI "** was an offline session held on 9th October 2023 in IT Seminar hall which the GDSC GECCS Cloud lead-Atharva Shete provided step-by-step guidance to the students to begin their cloud journey by starting the Generative AI labs. Around 82+students showed their active participation and gained practical hands-on experience by solving real world challenges using Google cloud services.
- **"Google Cloud Study Jam Session 2"** was an online session held on 10th October 2023 which included the lab session and the doubt session as well.
- The labs in Google Cloud Computing Foundations Pathway and GenAI Arcade Game included:
  - i. Performing Foundational Data, ML and AI Tasks in Google Cloud.
  - ii. To build and secure networks in Google Cloud.
  - iii. Performing Foundational Infrastructure tasks in Google Cloud.
  - iv. Creating and managing Cloud Resources.
- To motivate students during a Google Cloud Study Jam and add a bit of friendly competition, GDSC GECCS introduced the **Leaderboard** of our campus on 11th October 2023 which displayed the progress and number of labs completed in the study jam. It was updated daily at 8PM. It fostered a sense of community and accomplishment, which made the learning experience more enjoyable.

<https://gdsc-geca-cloud-leaderboard.pages.dev/>

- Online study jams and -doubts sessions were held regularly. Study groups were formed, where participants could collaborate, ask questions, and discuss concepts. This encouraged peer learning learning and engagement.
- On 23d October 2023, 20 students completed Google Cloud Computing Foundations Pathway and GenAI Arcade Game. The number of students completing the pathways became 22 on 24th October 2023.
- With continuous efforts from the GDSC team, this number was raising day by day. The number became 33 on 27th October 2023 and finally we achieved **Tier 3** by enabling 41 students to complete the course on 28th October 2023.
- On 29th October 2023, we accomplished another milestone by attaining **Tier 2** thereby enabling 60 students to complete the pathways. Now team GDSC was fully motivated and we were a few steps away to achieve the final milestone of this cloud journey.
- Team was fully dedicated to help students in every possible way and the participants also cooperated very well. Finally, on 31st October 2023, we successfully completed **Tier 1** by raising the count to 88.

>On 6th of February 2024, the much awaited **Google Cloud Study Jam Goodies Distribution Event** took place in the IT Seminar hall. The event was addressed by Dr. Anjana Ghule mam, Prof. Santosh Atipamalu sir and Srivastav sir. The event concluded with an inspiring speech from the guests, who emphasized the importance of continuous learning and skill development in the ever-evolving cloud computing landscape. Following the speech, the much-anticipated distribution of Google Cloud Study Jam goodies took place, leaving the participants excited and eager to embark on their learning journeys.

The Google Cloud Study Jam was a resounding success, providing participants with a comprehensive introduction to Google Cloud Platform services and necessary skills to excel in cloud computing. The collaborative learning environment and hands-on labs were particularly appreciated. This program has empowered individuals to harness the power of Google Cloud for personal and professional growth.

## **BAPPA KA PRASAD 1.0 CODING CONTEST**

### **Introduction:**

Google Developer Student Club in association with Algozenith hosted an engaging coding contest **BAPPA KA PRASAD 1.0** on **21st September 2023** to nurture innovation and refine students' coding abilities. This event provided a stage for participants to showcase technical prowess, problem-solving skills, and teamwork.

### **Contest Overview:**

**BAPPA KA PRASAD 1.0** united aspiring programmers, featuring algorithmic challenges spanning various difficulty levels. Open to students of all levels, the contest encouraged both novices and experienced coders to participate. Around 109 enthusiastic coders showed their active participation.

### **Event Highlights:**

- **Thrilling Coding Challenges:** Participants tackled a series of challenging coding problems. Those problems ranged in difficulty, ensuring both beginners and seasoned programmers can participate.
- **Compete Globally:** Bappa ka Prasad 1.0 was open to coders from all around the world. The participants competed with the best and brightest minds in the coding community to prove their mettle.
- **Rewards and Accolades:** Beyond the thrill of competition, top performers had the chance to seize fantastic prizes and gain well-deserved recognition. Winners were prominently featured on our platform, celebrating their coding achievements..
- **Friendly Competition:** During the intense coding battles, the coding community was renowned for its supportive camaraderie. Participants forged connections with fellow coders, shared their coding experiences, and gleaned valuable insights from others in that friendly atmosphere.
- **Festive Theme:** Our coding contest was inspired by the joyful spirit of Bappa Ganesh Chaturthi. There were unique challenges that reflected the theme of this beloved festival, adding an extra element of fun in the coding experience.

### **Conclusion:**

The **BAPPA KA PRASAD 1.0 CODING CONTEST** succeeded in providing a competitive

platform and fostering a sense of community among aspiring developers. It demonstrated GDSC GECCS's commitment to empowering students with the skills needed for success in the dynamic field of technology, contributing significantly to the educational and professional development of the student community.

## **EMPOWERING THE FUTURE WITH WOMEN TECHMAKERS**

### **Study Jam Overview:**

The Women Techmakers event organized by GDSC took place on **20th November 2023**. The event aimed to celebrate and empower women in technology, providing a platform for networking, learning, and inspiration.

### **Objectives:**

#### **1. Promoting Diversity and Inclusion:**

- Encouraging women in tech, fostering a supportive environment for growth.

#### **2. Showcasing Achievements:**

- Featuring successful women sharing tech experiences, challenges, and achievements.

#### **3. Skill Development Workshops:**

- Hands-on sessions to enhance coding and software development skills.

#### **4. Networking Opportunities:**

- Creating connections with professionals, mentors, and industry leaders.

#### **5. Inspiration and Empowerment:**

- Inspiring women for leadership roles, empowering with confidence and skills.

#### **6. Networking Opportunities:**

- Creating a platform for women to connect with professionals, mentors, and industry leaders.

#### **7. Career Guidance and Mentorship:**

- Providing mentorship for women to receive guidance from experienced professionals.

### **Activities and Highlights:**

The inaugural session of GDSC, Women Techmakers was held on 20th November 2023 from 6:16 PM to 7:30 PM on an online platform. In this session, more than 50 girls joined us and showed their active participation.

A trailblazer in the tech industry, Aastha Patel brings a wealth of experience and expertise that resonates with our commitment to empowering women in technology. With a remarkable



career journey and a passion for promoting diversity, she inspired and enlightened our audience. She is an analyst at KPMG and a Google WTM Ambassador. She highlighted the following in the session:

**-What WOMEN TECHMAKERS exactly is:**

Google launched Women Techmakers (WTM), a global network of women working in technology in 2010. WTM aims to recognise, empower, and foster connections among women in technology.

**-Benefits of joining WTM Community:**

To unlock growth, support and opportunities in tech with WTM.

**-Activities under WTM Program:**

Local meetups, coding challenges and webinars for continuous learning.

**-Google WTM scholarship opportunities:**

It is an initiative aimed at supporting and empowering women pursuing careers in technology. Through this program, WTM provides financial assistance, mentorship, and networking opportunities to outstanding women in the field.

**-Announcement of Chh. Sambhajinagar WTM core members application:**

Announcement regarding the application of core members of WOMEN TECHMAKERS Chh. Sambhajinagar.

The Women Techmakers event by GDSC successfully brought together women in technology, providing a platform for learning, networking, and empowerment. The event's focus on diversity and inclusion contributed to creating a supportive community for women pursuing careers in technology.

**DEVELOP,DESIGN,DISCOVER CAMPAIGN**



# Discover, Design, Develop



## >What is Discover, Design, Develop about?

- Opportunity to learn and build together through a series of content on various technologies and dynamic training sessions covering the given cutting-edge technologies.
- A chance to bring forward your innovative solutions solving real world problems in Solutions Challenge.

## **SOLUTION CHALLENGE**

**Date:** 1st December 2023

**Venue:** Google Meet

The GDSC Solution Challenge Introduction Session marked the commencement of an invigorating expedition into problem solving and innovation. Held on 1st of December 2023, this session served as the catalyst for participants to embark on a collaborative adventure addressing real-world challenges.

### **Participants' Insights:**

40+ Attendees gained valuable insights into the transformative impact of technology on addressing global challenges.

### **Problem Statements Unveiling:**

The atmosphere buzzed with excitement as our GDSC lead, Riddhi Vernekar unveiled problem statements encompassing healthcare, education, and environmental sustainability. Participants were introduced to the real-world issues they would be addressing

throughout the Solution Challenge.

### **Hackathon Logistics and Rules:**

Our lead meticulously outlined the hackathon's logistics, covering timelines, submission guidelines, and judging criteria. A comprehensive overview of the rules and guidelines was provided to ensure a fair and smooth competition. She also explained the team formation criteria.

### **Q&A Session:**

A dedicated Q&A session allowed participants to seek clarification on rules, problem statements, and logistical queries. Organizers offered valuable insights and addressed participant queries to ensure a clear understanding of the challenge.

### **Closing Remarks:**

The Introduction Session concluded with motivating closing remarks, inspiring participants to approach problem-solving with creativity and enthusiasm. Participants left the session energized and ready to embark on the hackathon journey.

### **Next Steps:**

Participants were guided on accessing resources, mentorship opportunities, and additional support channels as they entered the Solution Challenge phase. Information about upcoming workshops and mentorship sessions was shared to assist teams in their project development.

### **Conclusion:**

The Info session of Solution Challenge brought together a group of enthusiastic individuals ready to tackle real-world problems with innovative solutions. The Introduction Session successfully ignited a sense of purpose and collaboration among participants.

## **UNLEASHING GIT AND GITHUB: SOLUTION CHALLENGE**



Date: 28/12/2023

Time: 7:00 PM

### Introduction:

The Google Developer Student Clubs (GDSC) GECCS hosted an event titled "Unleashing Git & GitHub," aiming to empower students with the fundamentals of version control and collaborative coding through these powerful tools.

The speaker of the event was Muhammad Ahmar Hilal, Web Dev Lead of GDSC GECCS. He brought a wealth of experience and knowledge to the table, ensuring participants received insightful and practical guidance. There were around 79 attendees in the event.

### Unveiling the Essentials:

The session delved into the core concepts of Git and GitHub, providing students with a comprehensive understanding of these essential tools in the software development world. Key areas covered included:

**Version Control with Git:** Students learned the fundamental principles of version control, understanding how Git tracks code changes and facilitates efficient collaboration.

**Mastering GitHub:** The session explored the functionalities of GitHub, including creating repositories, branching and merging, and collaborating with others on projects.

**Interactive Learning:** The speaker incorporated hands-on exercises to enhance engagement and solidify understanding.

### **Boosting Skills and Confidence:**

By attending the event, students gained valuable skills and insights, including:

- The ability to effectively manage code changes and maintain project history.
- The knowledge to collaborate seamlessly with other developers on software projects.
- Increased confidence in utilizing Git and GitHub for their individual and team-based coding endeavors.
- A foundation for exploring advanced Git and GitHub features in the future.

### **Conclusion:**

The GDSC GECCS Git & GitHub event proved to be a valuable learning experience for participating students. This event empowered them to navigate the world of software development with greater efficiency and confidence.

### **>SELECTION FOR REGIONAL BOOTCAMP**

Students actively participated in this challenge and came up with numerous ideas out of which 5 teams from our institution were selected for the regional bootcamp in Mumbai.

### **What are regional bootcamps?**

In person help sessions for teams to get guidance from experts to enhance the quality of solutions before the final submission of projects for selection under top 100 solutions.

To participate in the regional bootcamp, interested teams must :

1. Have registered for Solution Challenge before submitting the entry for evaluation.
2. Submit a solution for evaluation between Jan 4th - January 20th.
3. Uses Gen AI and Google Cloud as one of the technologies in the project.

The selected teams traveled to Mumbai and actively participated in the India Regional Bootcamp hosted at Vidyalankar Institute of Technology on February 10th, from 8am to 4pm IST. The bootcamp provided in-person guidance from domain experts to enhance project quality before the final submission for the top 100 solutions selection. The students from 1st year, 2nd year and 3rd year from CSE, IT and E&TC department were the active participants.

>Following are the projects of selected teams:

### **PARKSYNC (Parking System):**

An integrated transport routing and fare aggregation system is engineered to revolutionize metropolitan commuting. By combining various transport modes and employing real-time traffic analysis, predictive travel time estimates, and fare aggregation, it offers optimized routes aligned with user preferences. This innovative system reduces congestion, minimizes travel time, and calculates aggregated fares across multiple transport modes, ensuring cost-effective and efficient urban mobility.

#### **STRIVERS (NGO Website):**

A website connects funding to NGOs supporting people in need. It helps raise funds for verified candidates through trusted NGOs for meaningful projects, aiming to empower communities and create a fairer society.

#### **OPTIMETRICS (Gender Equality):**

Implementing an educational curriculum that educates future generations about societal norms and discrimination, aiming to eradicate these issues in the future. By teaching empathy, inclusivity, and the impact of social biases, this initiative seeks to create a more understanding and equitable society, fostering a generation equipped to challenge and dismantle discrimination.

#### **EDUREVOLUTIONERS( Teacher-Student):**

An innovative platform allows college students to choose their professors based on uploaded demo lectures. Teachers showcase their skills through these videos, and students vote to select instructors for specific subjects. This approach empowers students by giving them a voice in their education, ensuring that engaging and effective educators are appointed based on their teaching abilities and resonance with the student body.

#### **SOLAR HARVESTING AND TRACKING:**

This project addresses the challenge of optimizing solar energy utilization by implementing an Arduino-based system for precise measurement, control, and monitoring of solar panels. The goal is to overcome inefficiencies in traditional solar setups, enhance energy yield, and provide a sustainable solution for reliable power generation, contributing to a more efficient and eco-friendly renewable energy landscape.

#### **CRACK THE CODE: ANDROID + INTERNSHIP**

**Date: 12/01/2024 & 13/01/2024**

**Co-hosted by:** LNCT Bhopal & IES Bhopal

**Attendees:** 156

This event, CRACK THE CODE + ANDROID INTERNSHIP, co-hosted by Lakshmi Narain College of Technology (LNCT) - Bhopal and IES College of Technology - Bhopal in collaboration with GDSC GECCS, offered a two-day workshop that aimed at helping individuals land internships in Android development.

The program included:

- **Day 1 [12/01/2024]:** A session led by Ankur Gupta on "Android Development Secrets," providing participants with a comprehensive understanding of the key concepts and tools involved in Android app development.
- **Day 2[13/01/2024]:** A session by Siddharth Khuntwal focused on "Internship Success Strategies," equipping attendees with valuable insights and guidance on securing and thriving in internship opportunities.

### **Key takeaways:**

- \* The event attracted 156 attendees, indicating a strong interest in Android development and internship possibilities.
- \* The workshop provided a structured learning experience, combining technical knowledge with practical advice for navigating the internship application process.
- \* The co-hosting by two educational institutions suggests a collaborative effort to support students in their career development endeavors.

Overall, the "Crack the Code: Android + Internship" event appears to be a valuable initiative for individuals seeking to enter the field of Android development and gain valuable internship experience.

## **MASTERING MACHINE LEARNING WITH TENSOR FLOW**



**Date:** 25/02/2024

**Speaker:** Pratik Woyal, Design Lead at GDSC GECCS

This exclusive workshop, led by Pratik Woyal, delved into the fundamentals and applications of machine learning using TensorFlow. Designed for both beginners and experienced individuals, the program offered a comprehensive learning experience:

**Interactive lecture:** Provided foundational knowledge on machine learning concepts and their practical implementation through TensorFlow.

**Hands-on exercises:** Solidified learning through practical application, allowing participants to code their own examples.

**Real-world case studies:** Showcased the diverse applications of machine learning across various industries, highlighting the real-world impact of this technology.

**Key takeaways:**

- \* The workshop aimed to equip attendees with the necessary skills to navigate the field of machine learning, regardless of their prior experience.
- \* The combination of theoretical knowledge, practical exercises, and real-world applications provided a well-rounded learning experience.
- \* Participants gained valuable insights into utilizing TensorFlow, a popular open-source



library for machine learning.

\* Additionally, attendees benefited from practical demonstrations and hands-on experience with AI/ML, further enhancing their understanding and skillset.

Overall, the "Mastering Machine Learning with TensorFlow" workshop appears to be a valuable learning opportunity for individuals seeking to gain foundational knowledge and practical skills in this rapidly evolving field.



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