



Date: 20th June 2023

Subject: SOSC conducted its Induction Program.

Here's a revised version combining both the induction program and tech domain information:

The induction program at SOSC began with the President welcoming participants and introducing the new leads, familiarizing them with their roles. Following this, an overview of SOSC's objectives, past projects, and future plans was provided. A Q&A session clarified participants' queries, while a CTF competition added an element of fun and encouraged engagement. The tech leads then presented their respective domains: Web Development, Competitive Coding and DSA, App Development and Python, Internet of Things and Computer Vision, Artificial Intelligence and Machine Learning, and Cybersecurity.

A Kahoot session followed for team bonding, with stickers awarded to the winners. The program concluded with a group photograph, capturing the camaraderie. Overall, the program effectively integrated new leads, fostering teamwork and setting the stage for a collaborative work environment at SOSC, while anticipating the contributions of the new recruits.

No. of participants: 150+ participants





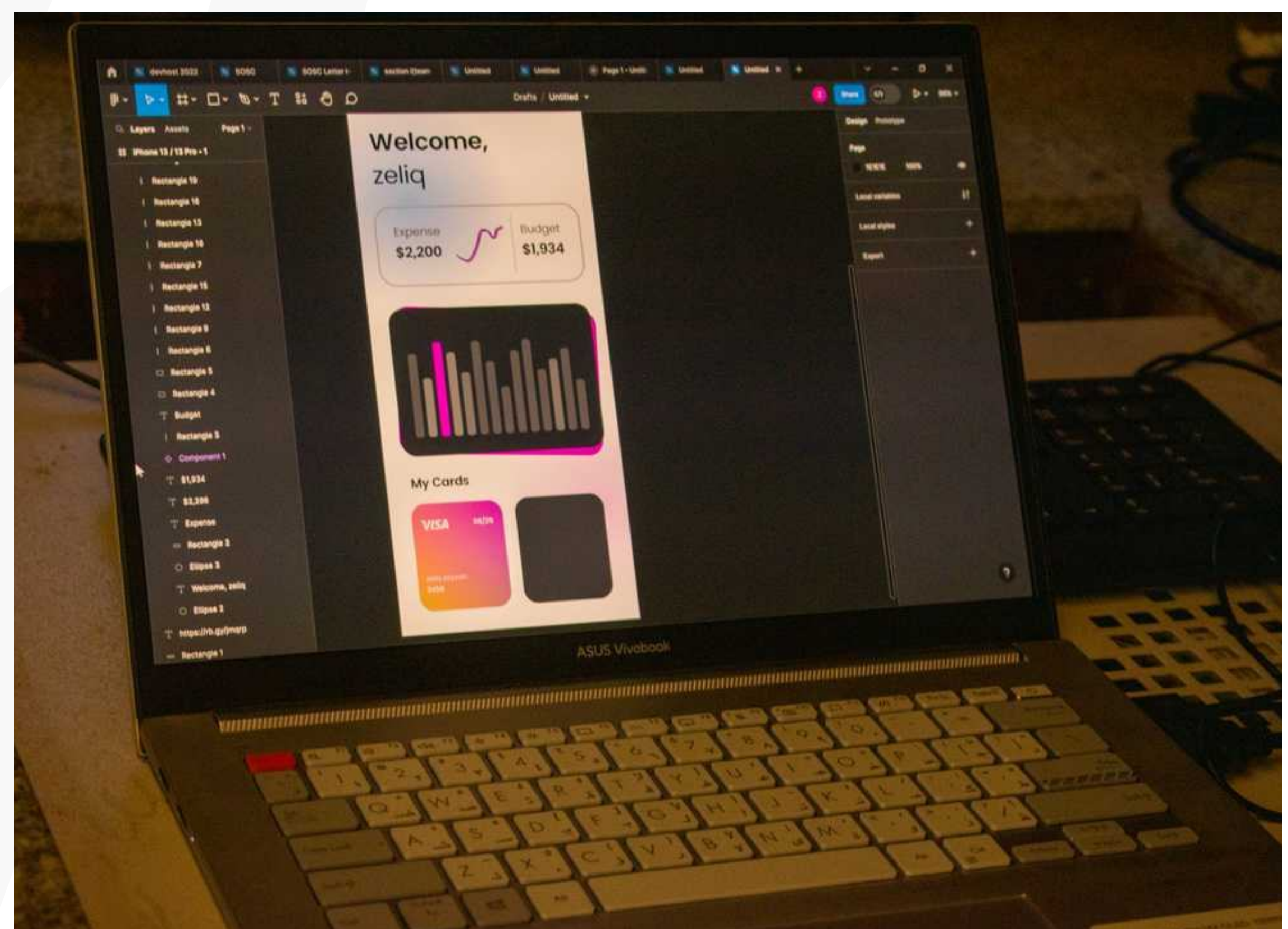
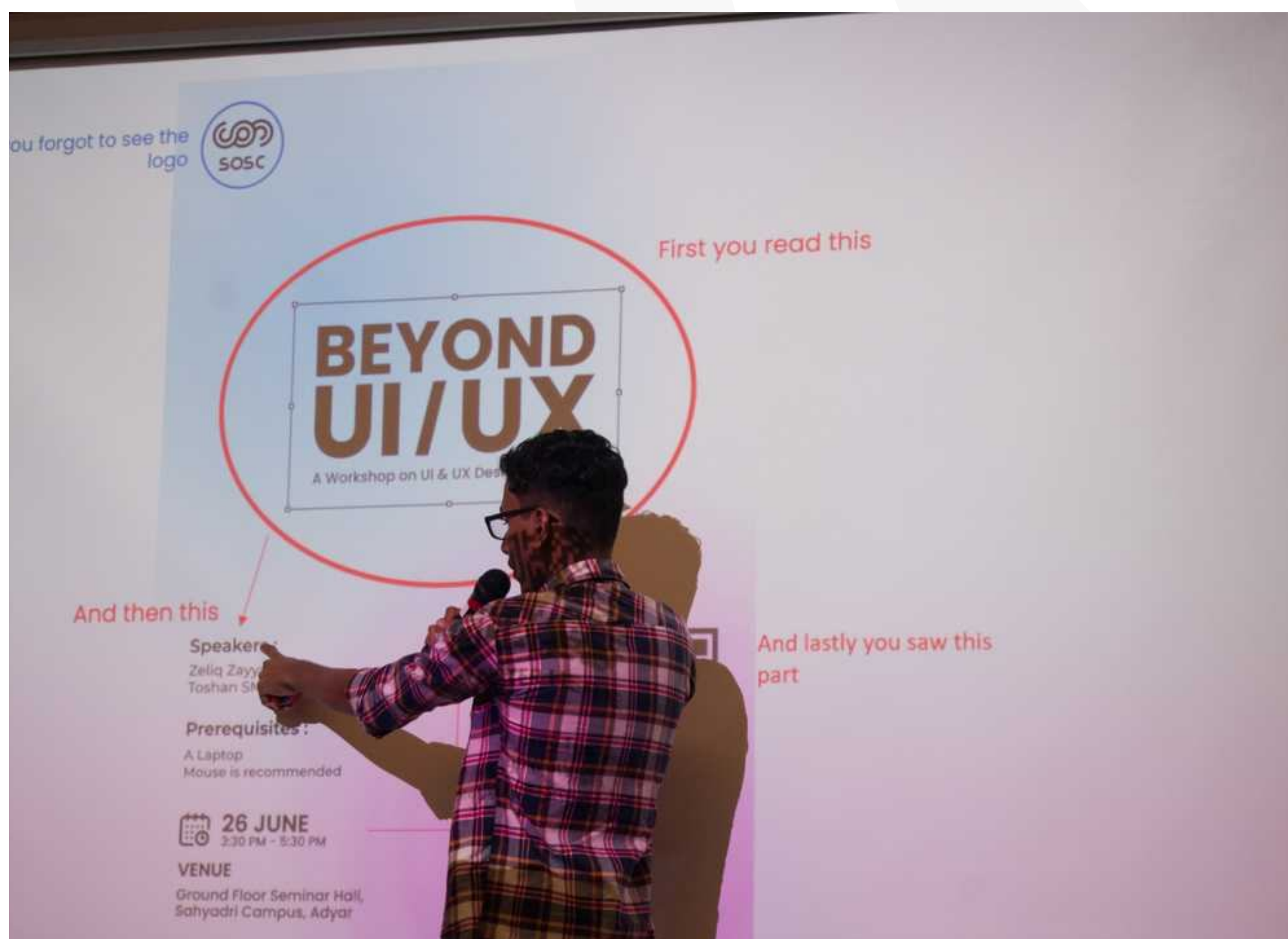
Date: 26th June 2023

Subject: SOSC conducts 2 day workshop on UI/UX design principles.

The UI/UX workshop, led by SOSC design leads Zeliq Zayyan and Toshan S.M, was an engaging and interactive session that provided participants with a comprehensive understanding of UI and UX design principles.

They learned about user research, wireframing, prototyping, and usability testing, gaining hands-on experience in creating wireframes and prototypes using industry-standard tools. They explored design principles such as typography, color theory, layout, interaction design and user flow. The workshop emphasized the iterative nature of UI/UX design and the importance of user feedback. By the end, participants had a solid foundation in UI/UX design principles and practical skills to create visually appealing and user-friendly digital experiences.

No. of participants: 80+ participants over 2 days





Date: 14th July 2023

Subject: SOSC organised a workshop on Git and GitHub.

Led by Deveesh Shetty, the President of SOSC, the Git and GitHub workshop was an interactive session which focused on version control and collaboration in software development.

Participants gained a comprehensive understanding of Git and GitHub, essential tools for managing and tracking code changes. They learned fundamental concepts such as creating repositories, tracking changes through commits, and resolving conflicts. Hands-on practical exercises enabled participants to apply these concepts in real time. The workshop also covered advanced topics like branching, pull requests, and using GitHub for issue tracking and project management. By the end of the session, participants had acquired the skills necessary to effectively track changes, collaborate, and maintain well-organized code repositories.

No. of participants: 100+ participants over 2 days



Date: 28th July 2023

Subject: SOSC conducted 'Beyond the Bounds' : a workshop on Cybersecurity.

Led by Cyber Security leads Rishab and Sushruth. Attendees were captivated by their insightful exploration of cybersecurity challenges, including live demonstrations of software vulnerabilities such as buffer overflow.

The workshop offered an in-depth look at low-level programming concepts like stack and registers, helping the audience grasp the technical foundations of cybersecurity threats. The discussions on the significance of IP addresses in cyber attacks sparked interest in network security, while attendees were equipped with safe coding practices to bolster their digital defenses. An interactive Q&A session further engaged the participants, leaving them confident in their ability to protect against cyber threats. The workshop had a clear impact, cultivating a vigilant and informed cybersecurity community ready to defend against potential threats, marking a meaningful step toward strengthening the digital landscape. To support continuous learning, participants were also provided with valuable resources to aid their ongoing education in cybersecurity.

No. of participants: 80+ participants



Date: 1st August 2023

Subject: SOSC conducted a workshop on Computer Vision in collaboration with IEEE.

The Sahyadri Open Source Community, in collaboration with IEEE, organized the 'EnvisionX: Exploring the world of Computer Vision' Workshop on August 1st at 3:30 pm. The event commenced with a formal function attended by dignitaries including Dr. Manjappa Sarathy, Dr. Mustafa Basthikodi, and Mr. Gurusiddhaya. After a lamp lighting ceremony and inspiring words from the dignitaries, the workshop, led by Srujan Rai, commenced.

The workshop covered insights into Computer Vision concepts, including YOLO object detection algorithm, methods, and applications such as traffic monitoring and medical imaging. Participants engaged in hands-on sessions, practicing face detection and hand tracking using PyCharm, with interactive quizzes to boost engagement. The workshop concluded with a demonstration of the YOLO model implementation, marking a successful collaboration between SOSC and IEEE, igniting enthusiasm for Computer Vision exploration among participants.

No. of participants: 60+ participants





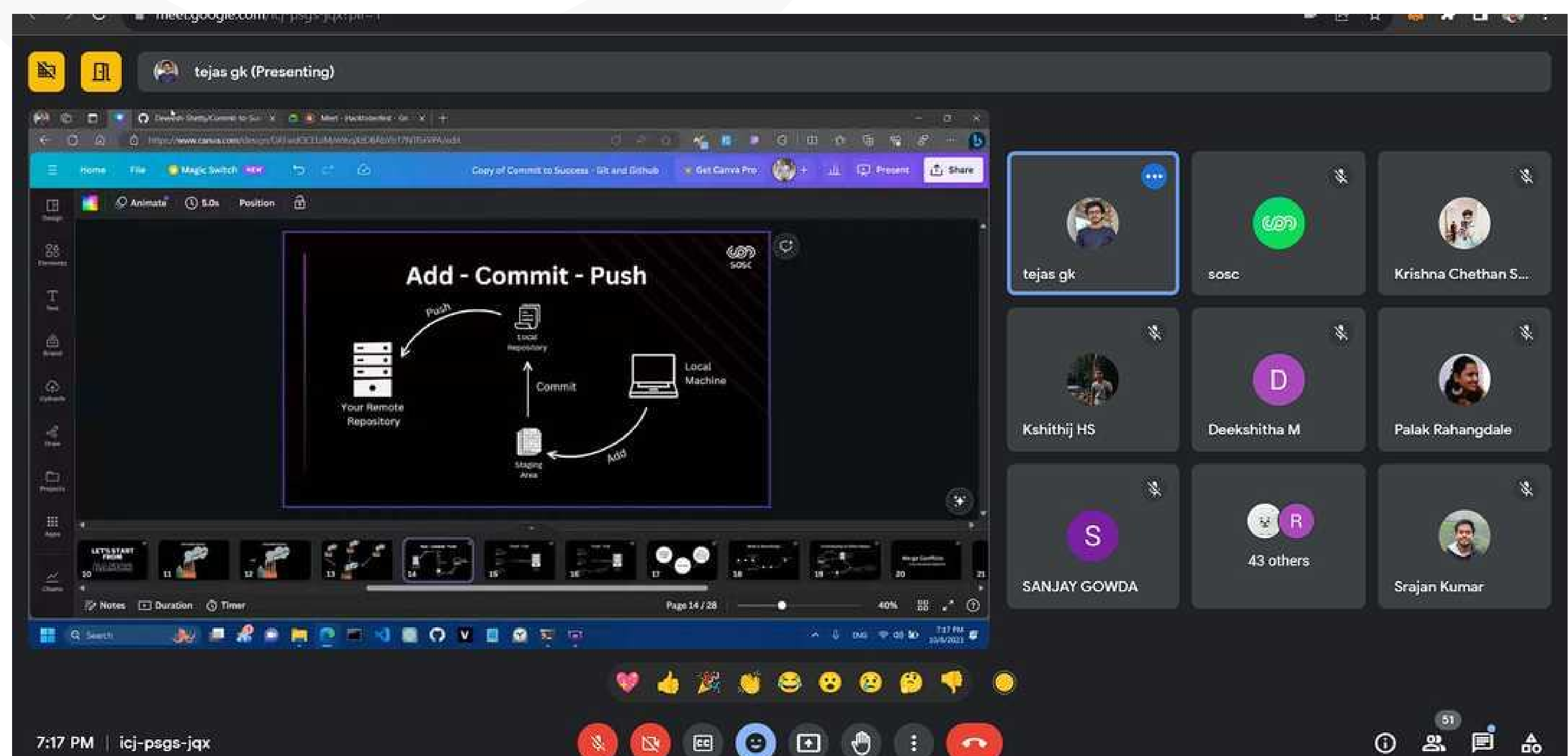
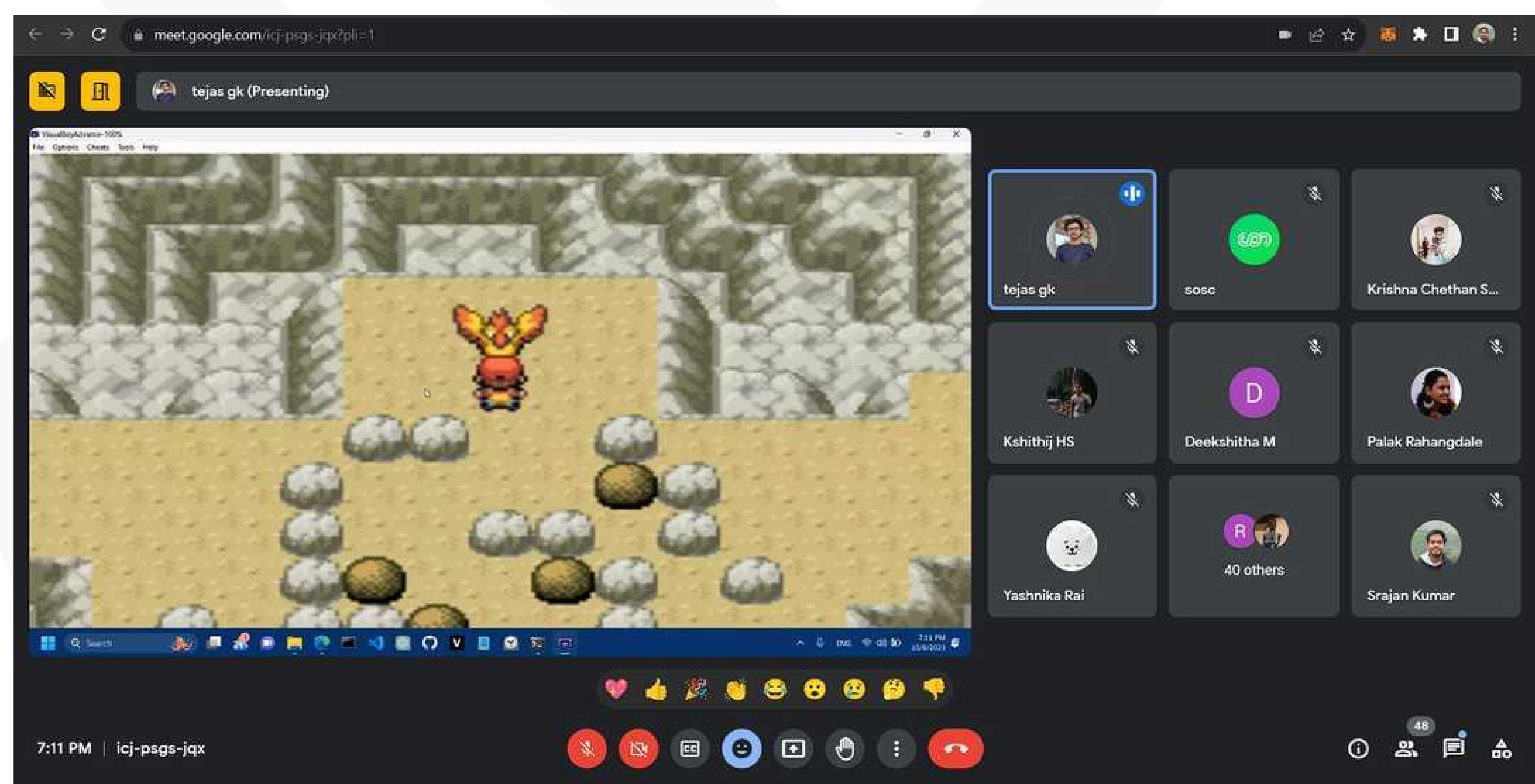
Date: 8th October 2023

Subject: SOSC conducted a virtual workshop on Git and GitHub as part of HacktoberFest.

Kickstarting Hacktoberfest with a comprehensive workshop on Git & GitHub led by SOSC's web development lead, Tejas G.K, set the tone for the month-long festivities, aligning with the essence of open-source at the heart of both Hacktoberfest and SOSC.

Conducted via Google Meet for wider accessibility, the session began with a warm welcome from our marketing lead, Pratheeksha, introducing Hacktoberfest and SOSC's commitment to open source. Tejas then delved into version control concepts, employing colorful visuals and real-life examples to enhance understanding. Participants were guided through basic Git commands in a hands-on segment, followed by an interactive Q&A session to address queries. Resources were shared for further exploration, culminating in attendees leaving equipped with a solid grasp of version control and a readiness to contribute to open-source repositories, marking the workshop as a highly informative and impactful experience.

No. of participants: 40+ participants





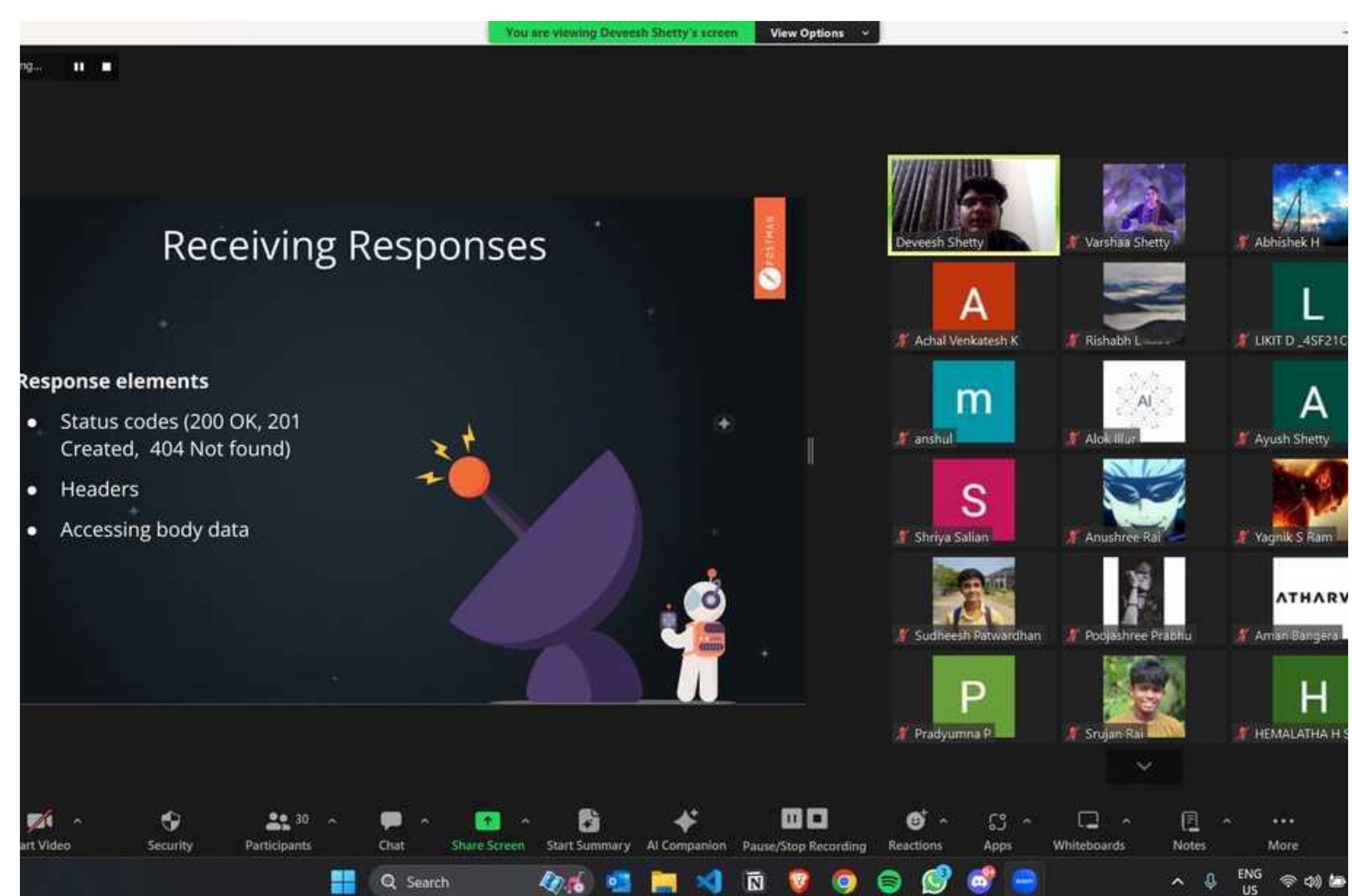
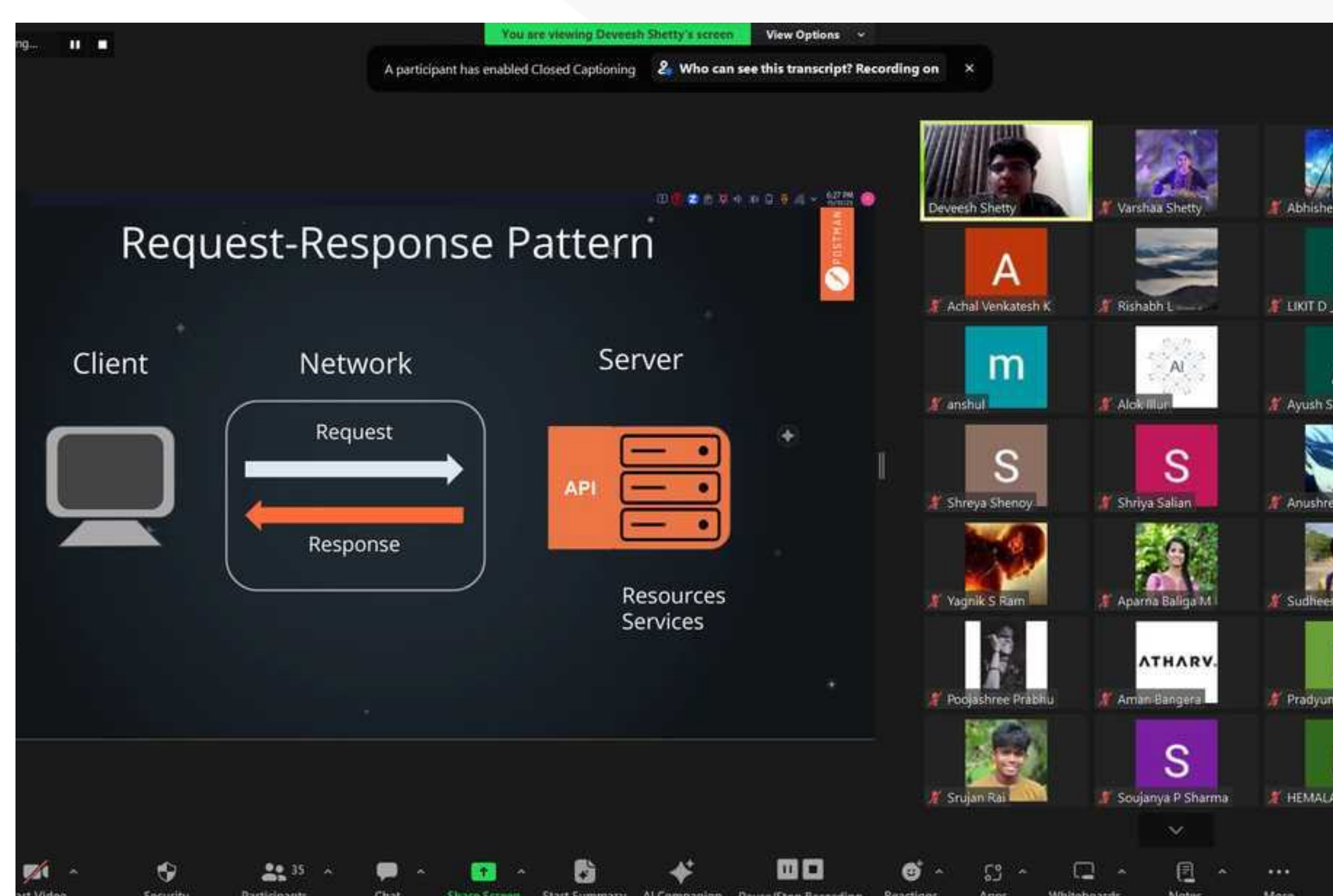
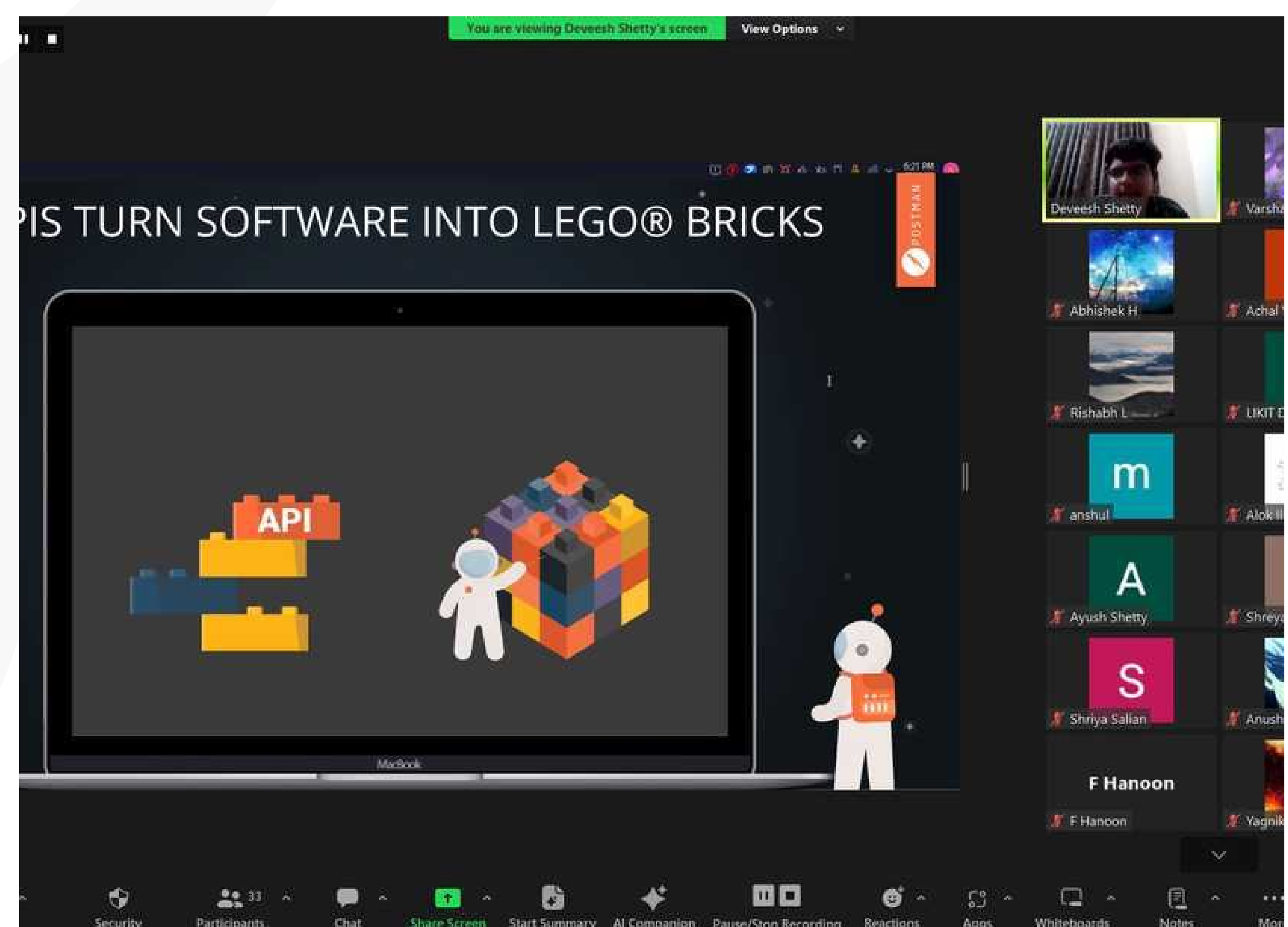
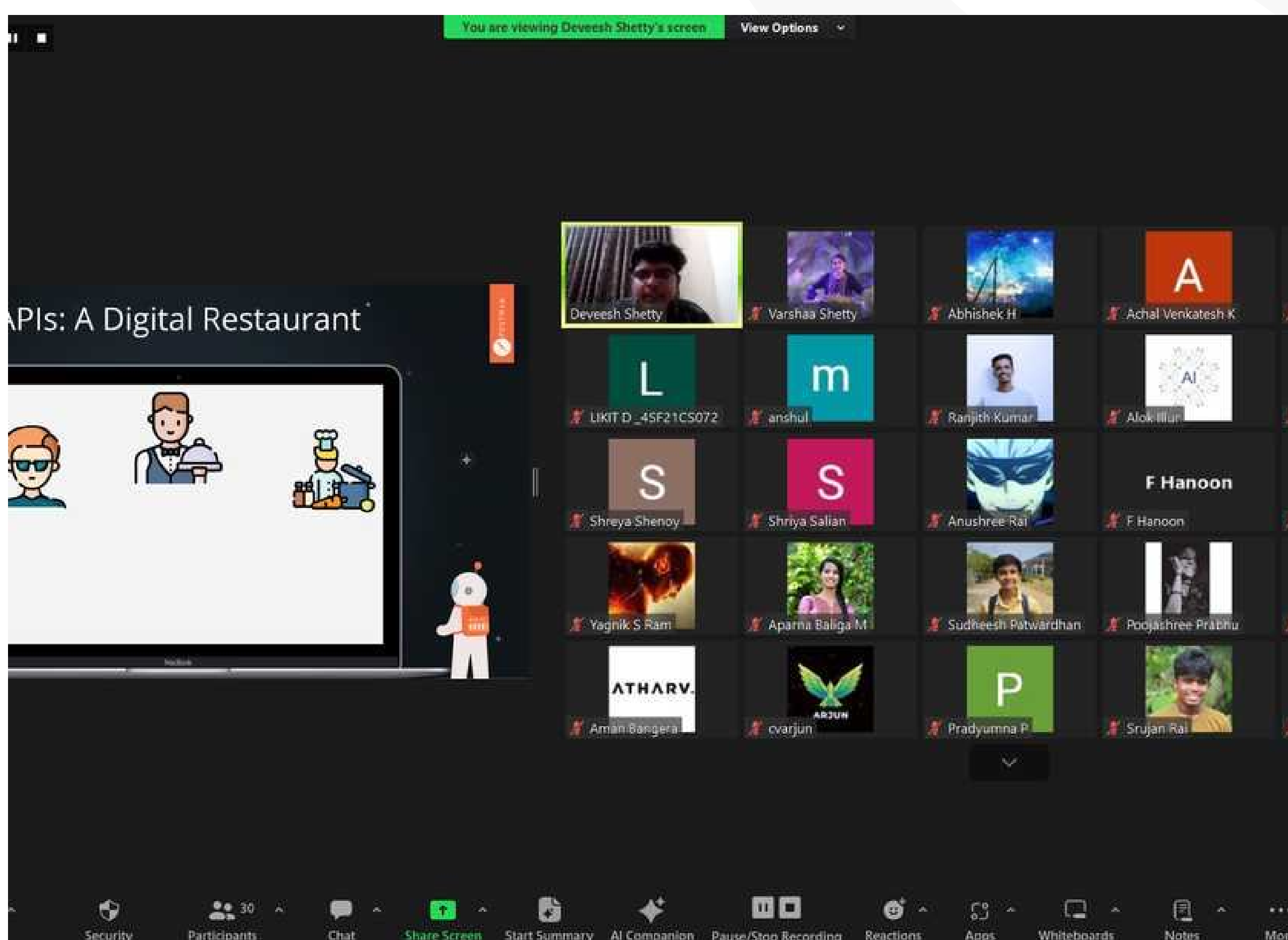
Date: 15th October 2023

Subject: SOSC conducted an online workshop on APIs as part of HacktoberFest.

Following the completion of part one of Hacktoberfest, the next SOSC X Hacktoberfest event featured a workshop titled 'API 101: with Postman,' led by Deveesh Shetty, President of SOSC and a Postman Student Expert. Held virtually via Zoom, the workshop introduced attendees to APIs, highlighting their significance in software development and showcasing Postman as a collaborative platform for creating and testing APIs efficiently.

Through engaging visuals and real-life examples, the session explained key concepts such as API functionality, the request-response mechanism, and the components of a request. Participants were guided step-by-step through Postman's interface, learning how to construct API requests effectively. The workshop concluded with a Q&A session, providing attendees an opportunity to clarify doubts and expand their understanding. Additionally, the participants were introduced to the Postman Student Expert Program, which offers valuable resources and certification badges. By the end of the workshop, participants left with a solid understanding of APIs and practical skills for deploying them in personal projects.

No. of participants: 45+ participants





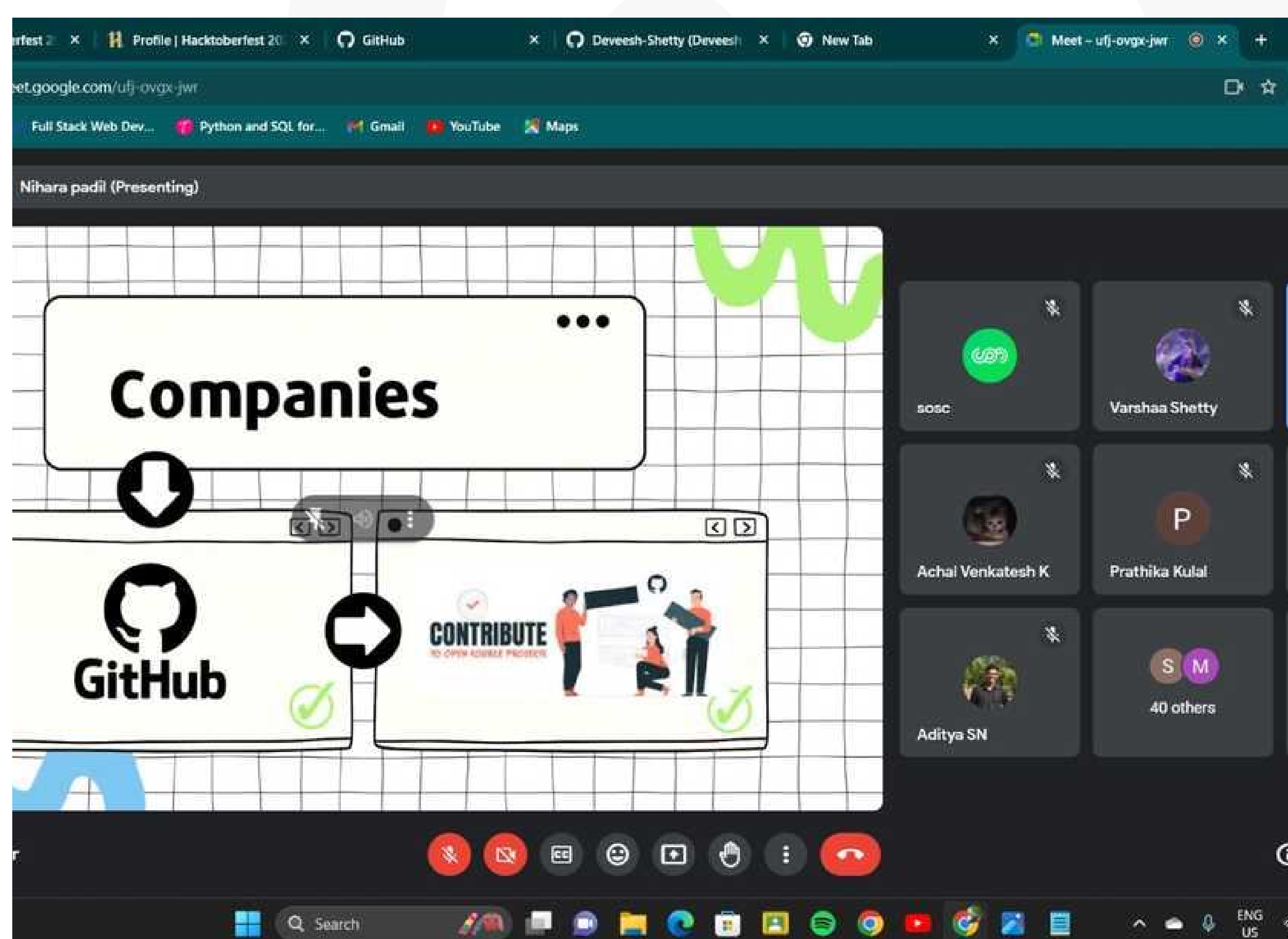
Date: 21st October 2023

Subject: SOSWC conducted an Online workshop on Open Source and HacktoberFest.

Led by Nihara, SOSWC President, and Hamshini, SOSWC Secretary, the event began with an introduction to SOSWC's mission, focusing on the importance of open source and the global Hacktoberfest. Nihara shared insights into open source technology, highlighting its significance and the growing value companies place on contributions.

Participants were introduced to GitHub's role in managing and contributing to open source projects. Hamshini then outlined Hacktoberfest objectives, guiding participants on making meaningful contributions and finding projects aligned with their interests. A lively Q&A session followed, offering attendees the chance to interact with speakers and clarify their doubts. With shared learning resources, participants left empowered to embark on their open source journey, marking a successful inaugural workshop by SOSWC, leaving a lasting impact on attendees' understanding and enthusiasm for open source development.

No. of participants: 40+ participants





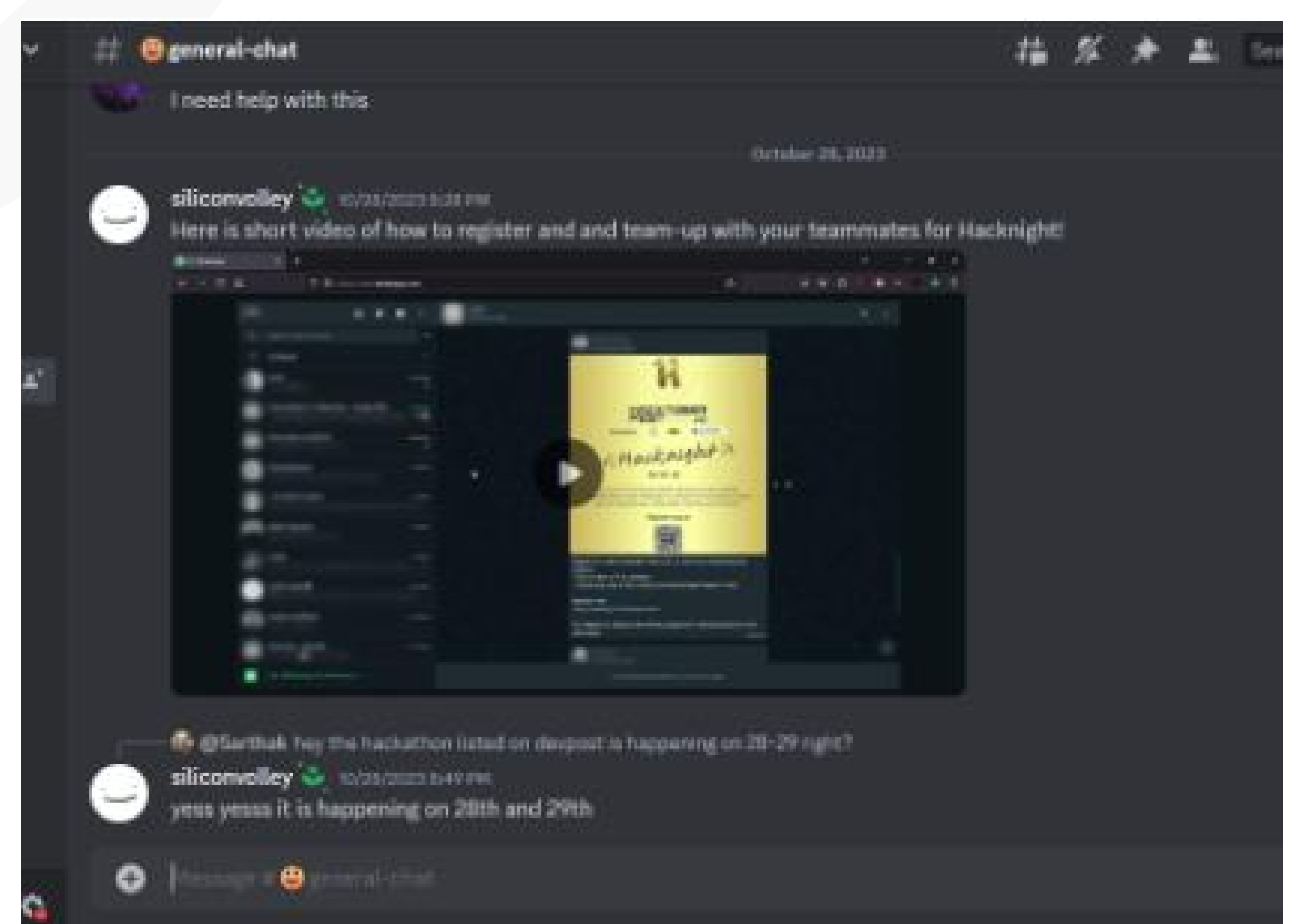
Date: 28th October 2023

Subject: SOSC conducted a virtual hackathon : Hacknight as part of HacktoberFest.

Hacknight, a 24-hour online hackathon organized by the Sahyadri Open Source Community (SOSC), concluded the month-long Hacktober Fest celebrations with remarkable success in October 2023. The event featured themes in Education, Healthcare, Finance, Agriculture, and Sustainability, conducted entirely online.

The inauguration ceremony introduced esteemed judges and outlined the rules and submission guidelines. Participants had 24 hours to develop prototypes, collaborating through a dedicated Discord server, with submissions made via Devpost. Projects were judged on Idea Quality, Implementation, Impact, Novelty, and Code Optimization, with results announced by November 3rd, 2023. Prizes totaling over ₹10,000 were offered, along with exclusive SOSC swags and certificates for winning teams and the participants, showcasing the global impact and success of the event in fostering learning, collaboration, and innovation in the tech community.

No. of participants: 300+ participants



Date: 20th November - 1st December

Subject: SOSC conducted HackHarbour - a technical upskilling programme for 2nd year students.

SOSC organized 'HackHarbor', a week-long hands-on training and internship session for incoming second-year students focusing on C++ and Python during the last two weeks of November. The initial three-day covered C++ fundamentals, including syntax, conditional statements, and object-oriented programming concepts.

Students then engaged in practical sessions, working on mini-projects like Number Guessing Game and Student CGPA Calculator. The session then shifted to Python, where students explored library packages like pandas and NumPy, and developed projects such as a Password Generator and Animated Bar Graph. Visual demonstrations aided comprehension, especially for students with a biology background, and interactive activities kept the class engaged. Solutions like laptop sharing and online compilers were implemented to overcome logistical challenges. Overall, HackHarbor was well-received, with students appreciating the organizers' efforts to make learning enjoyable and accessible.

No. of participants: 600+ participants

No. of speakers : 30+ seniors



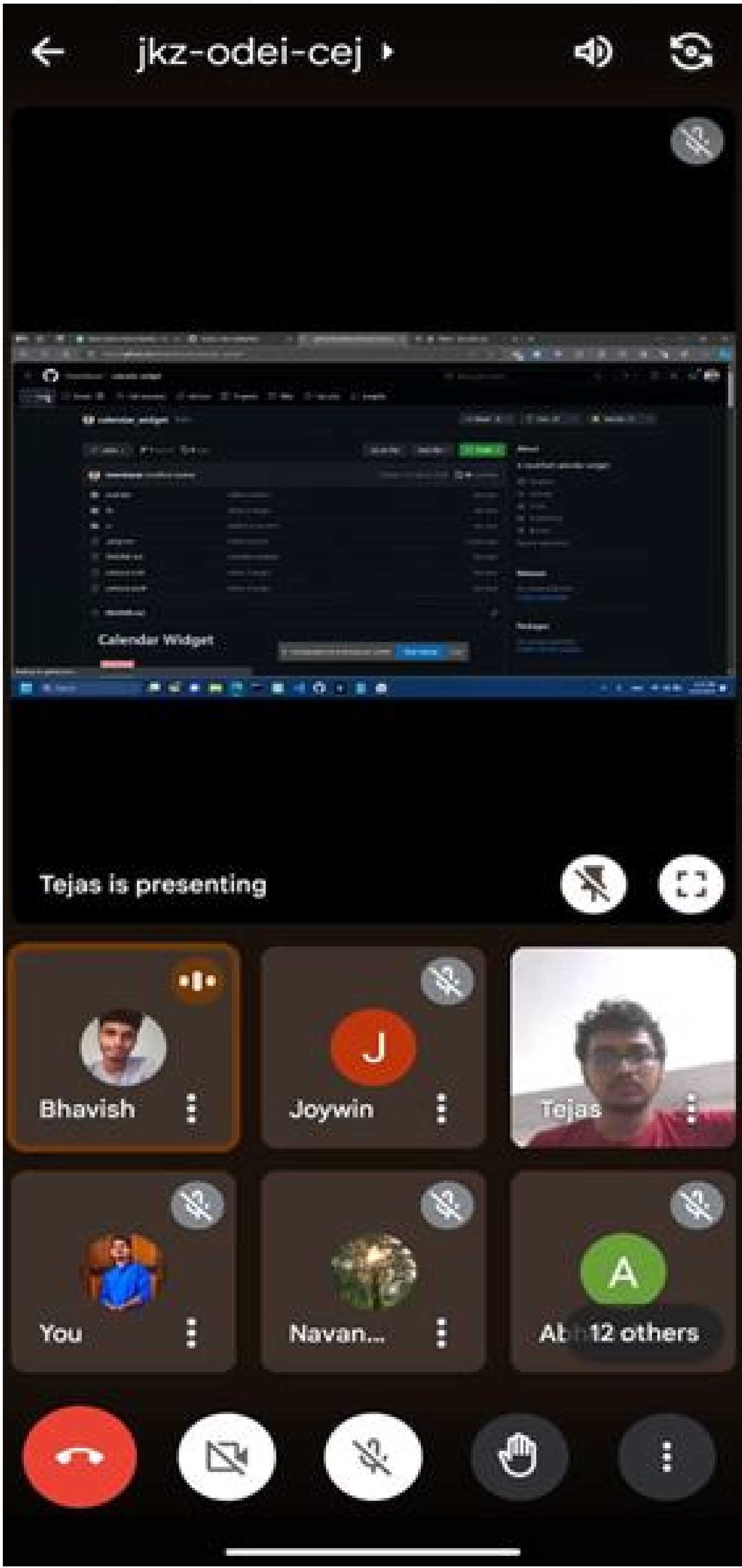


Date: 6th December 2023

Subject: SOSC conducted its Induction Program.

The Open Source Fiesta commenced on December 6th at 6 pm with an introductory Google Meet session led by Tejas G.K, the event head and Web Development Lead at SOSC. Bhavish provided insights into the Flutter project, while Ashwin briefed the audience about the Python project. A lively discussion followed, with active engagement from participants like Joywin, Keetan, Soochak, Abhisheeta, and Shaman. Repository owners presented their projects, including Ashwin's Malware Classifier in Python, Deevesh Shetty Sahyadri's Tiles web project, the SOSC Website 2.0, and Bhavish's Calendar Widget project. The event concluded on December 8th at 3:00 pm. The event highlighted the community's enthusiasm and engagement in open-source projects.

No. of participants: 20+ participants



Date: 9th December 2023

Subject: SOSC organized BlindBytes : a blind coding event as part of Codeblaze 2023.

BlindBytes, a distinctive blind coding event held on December 9th, 2023, from 10:00 am to 2:30 pm, challenged coding enthusiasts to test their skills and adaptability in a unique, sightless setting. Led by Rishabh Laxmikanth, AIML lead at SOSC, and Akkil M.G, App Development lead at SOSC, the event took place at CSE Lab 7, Sahyadri College of Engineering and Management. Forming teams of two, participants had 25 minutes to solve coding challenges in various programming languages. They were judged based on the accuracy, structure, and time taken to complete their code. The event was highly praised for its smooth organization, clear guidelines, and the distinctive challenge of coding without sight. Participants found the dynamic problem-solving process, coupled with helpful coordinator support, to be both engaging and enjoyable, making BlindBytes a memorable and rewarding experience for all.

No. of participants: 30 Participants



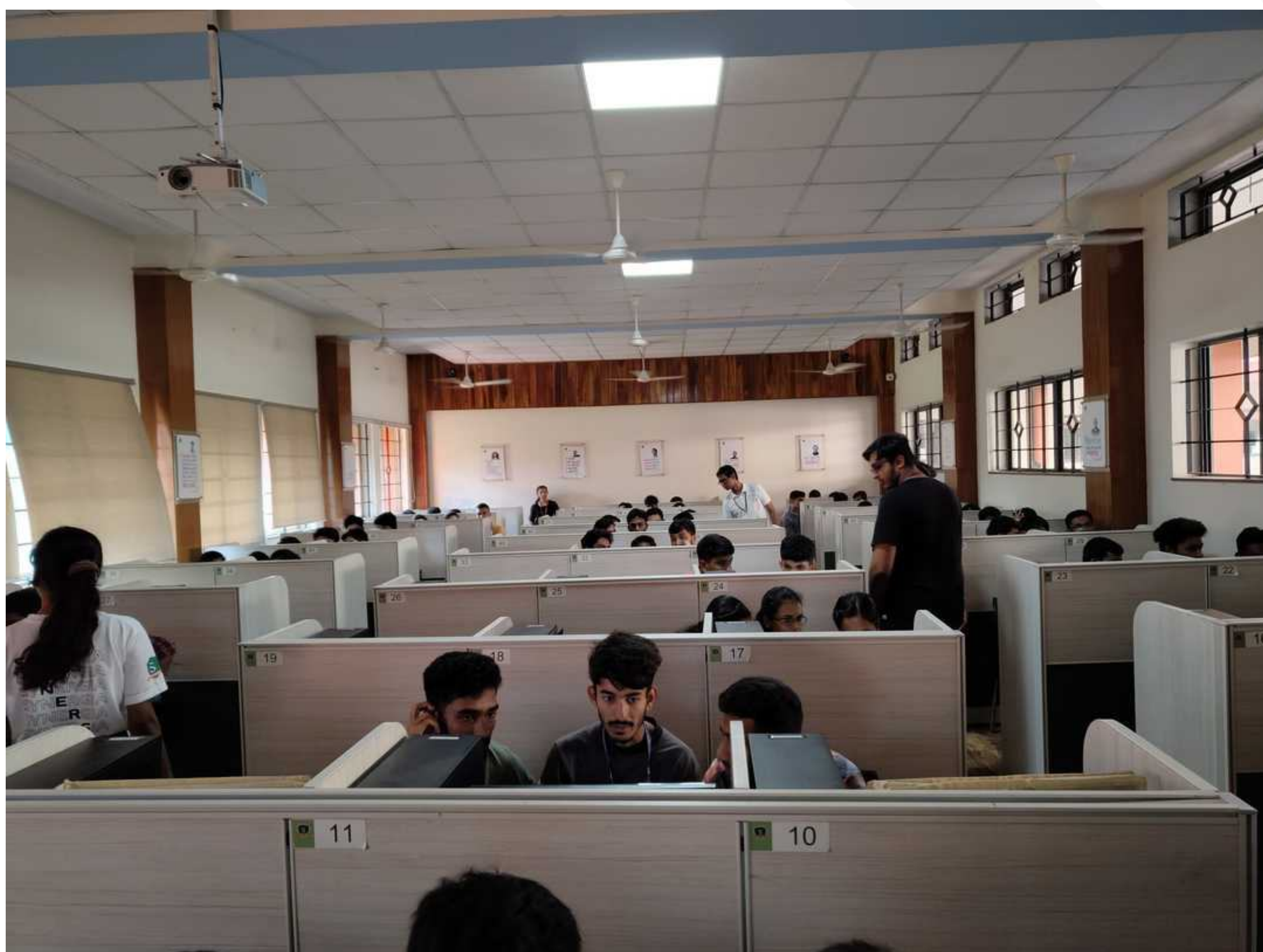
Date: 9th December 2023

Subject: The Sahyadri Open Source Community (SOSC) organized CodeQuest - a competitive coding challenge as part of Codeblaze 2023.

The Code Quest event, hosted by Sankshipth Shetty at the Women Empowerment Lab on December 9th. The event consisted of three rounds, each punctuated by short breaks, fostering an environment of continuous learning and engagement. However, participant feedback revealed some issues with the registration process, indicating a need for improvements in this area of event organization.

Participants' perspectives on the overall event experience were mixed, with some expressing satisfaction, while others rated it as just okay, and a few described it as nice. This diversity in opinions suggests areas for enhancement in future iterations of Code Quest. The report suggests addressing the concerns regarding the registration process, improving communication channels for clear instructions, and refining feedback-gathering methods for more comprehensive insights. Despite these challenges, the event was successful in bringing together coding enthusiasts for a day of collaborative learning and problem-solving.

No. of participants: 30+ teams

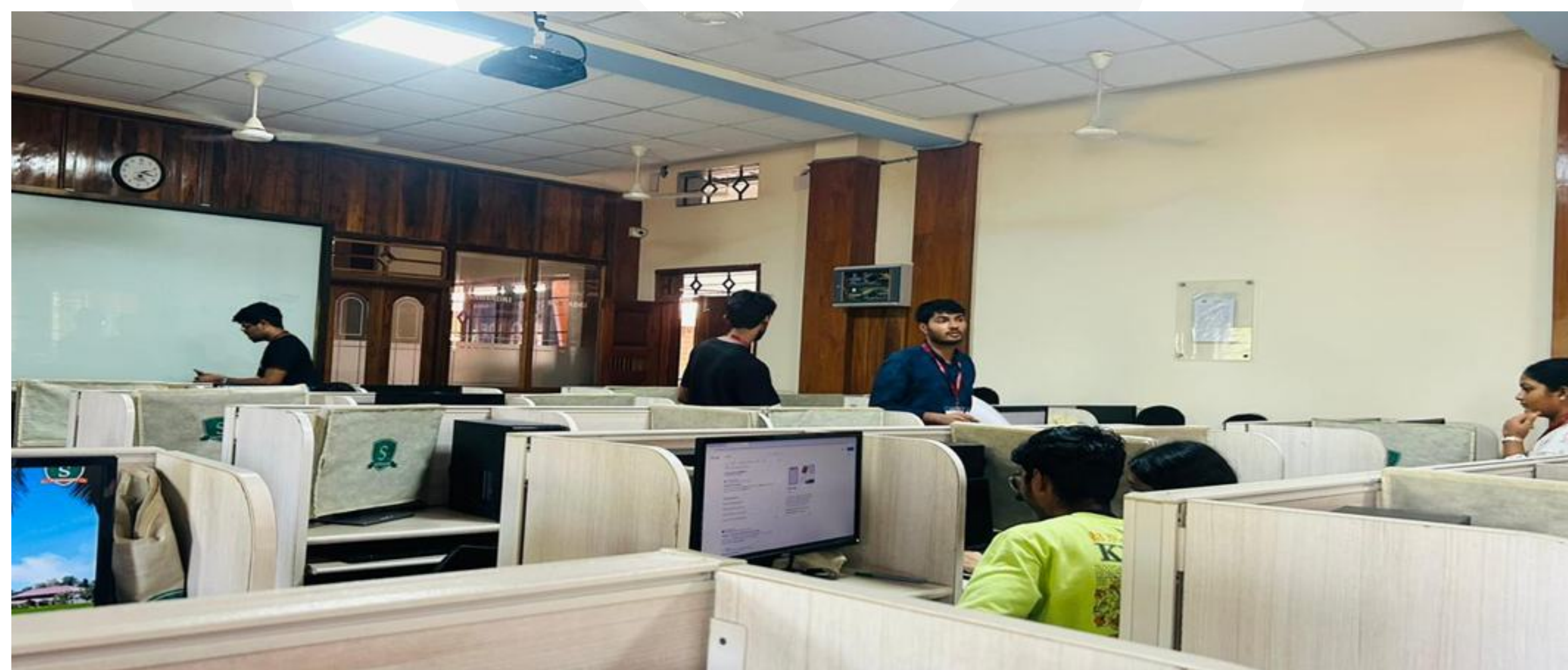


Date: 9th December 2023

Subject: SOSC conducted Decode- a cybersecurity themed Capture the Flag competition as part of Codeblaze 2023.

The Decode event, held at the digital library in Sahyadri College of Engineering and Management on December 9, 2023. Beginning at 2:00 PM and concluding around 3:15 PM, the event proceeded smoothly, presenting challenges which focused on network security and problem-solving. Feedback from participants was overwhelmingly positive, with many noting that it was their first experience with the Decode event, describing it as both enjoyable and valuable. The event focused on capturing four flags related to challenges in cryptography, network security, and steganography, fostering analytical thinking and teamwork among participants.

No. of participants: 20+ teams



Date: 8th December 2023

Subject: SOSWC conducted Techmaze - a tech-themed escape room challenge as part of Codeblaze 2023.

Techmaze, organized by SOSWC, took place on December 8th from 11:30 am to 1:30 pm in the 1st-floor MBA classrooms (Room No 102, 103, and 106) of the main block. Participants came primarily from St. Joseph, AJ, SDM, Sahyadri, and other colleges. The competition consisted of three rounds: the PDF Puzzle Dash, Visual Word Puzzle, and Rapid Riddle. The first round, lasting from 11:30 am to 12:45 pm, saw teams deciphering clues within locked documents to progress.

The second round, held from 12:50 pm to 1:05 pm, involved solving visual word puzzles to form technical terms. The final round, Rapid Riddle, from 1:10 pm to 1:25 pm, required teams to resolve issues on a website using basic HTML and CSS knowledge. Winners were determined based on their performance in the last round, with the first three teams to complete it announced as winners.

No. of participants: 50+ teams





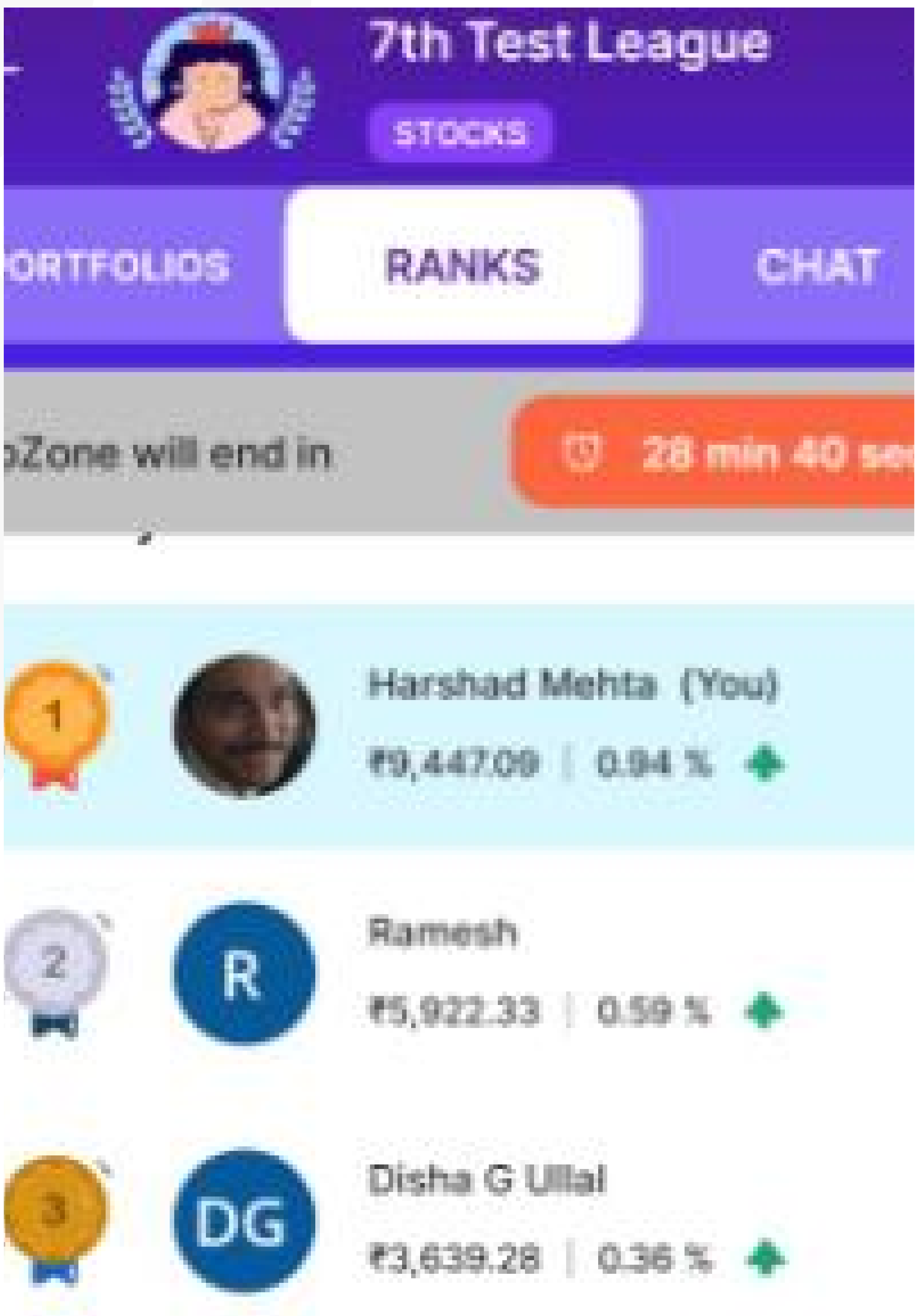
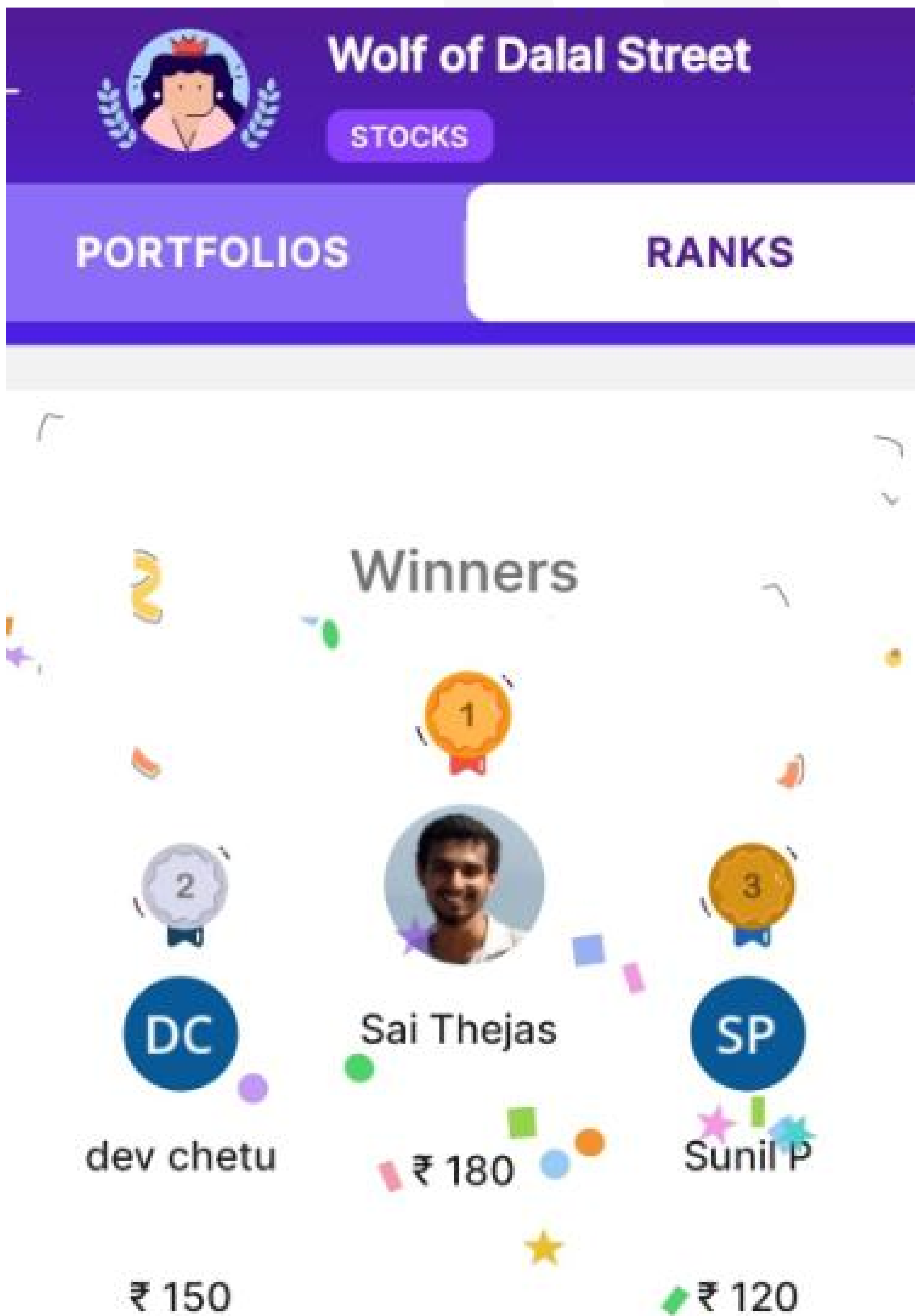
Date: 7-9th December 2023

Subject: SOSC organized a stock market trading event - ‘The Wolf of Dalal Street’ as part of Codeblaze 2023.

The event commenced at 9:30 on December 7th. Through an app, participants monitored a leaderboard, adjusting their gameplay based on market fluctuations, which had a considerable effect on profits, resulting in some participants experiencing substantial gains while others faced losses.

The first day concluded at market close, with Sai Thejas leading and Chethan Devadiga in 2nd place. The competition resumed on the 2nd day with minimal changes in the leaderboards, ultimately resulting in Sai Thejas securing 1st place and Chethan Devadiga 2nd. Participants received in-app currency based on their ranks to continue their learning in trading.

No. of participants: 60+ participants



Date: 8th December 2023

Subject: SOSC conducted 'The Pitchers - a technical idea pitching competition as part of Codeblaze 2023.

The Pitchers event, hosted on December 8, 2023, at the first-floor seminar hall of Sahyadri College of Engineering and Management, was successfully organized by Srujal, Pratheeksha S, and Akash Yadav from SOSC. Participants were primarily from SDM, MITE, Canara, and Sahyadri. The event began at 10:45 a.m. with a welcome speech by Punya, who expressed gratitude to the judges and participants, including Mr. Girish M from Trisha College of Commerce and Management, Ms. Akshatha, Mr. Ashwin, and Mr. Ramakrishna.

Participants showcased their ideas with confidence, receiving constructive feedback from the judges. Presentations covered diverse topics, from agriculture issues to smart farming and prototypes for disabled individuals, showcasing participants' creativity and innovation. The event, which was divided into two phases, concluded at 3:30 p.m., with mementos presented to the judges as tokens of appreciation for their support.

No. of participants: 25+ Teams



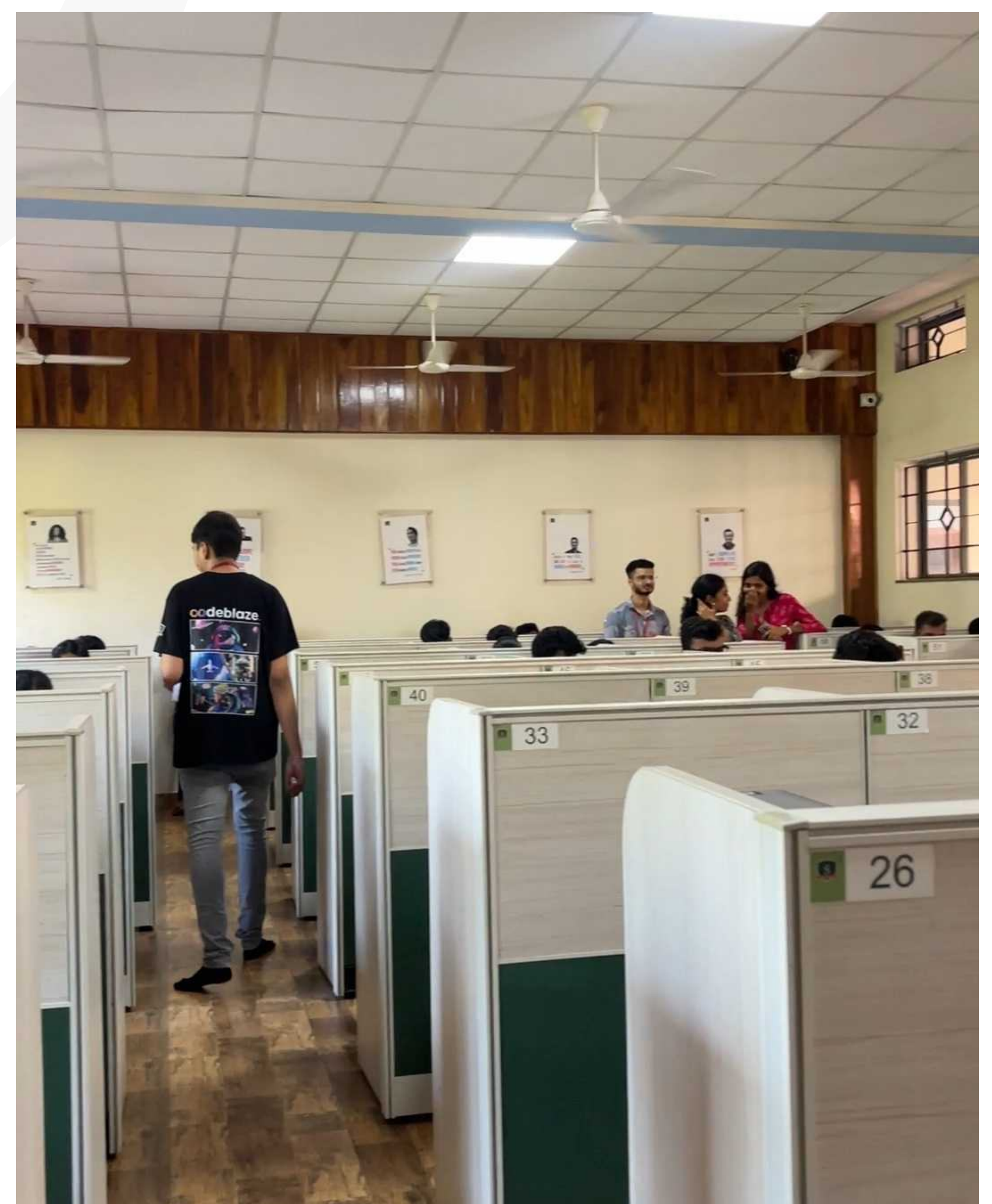
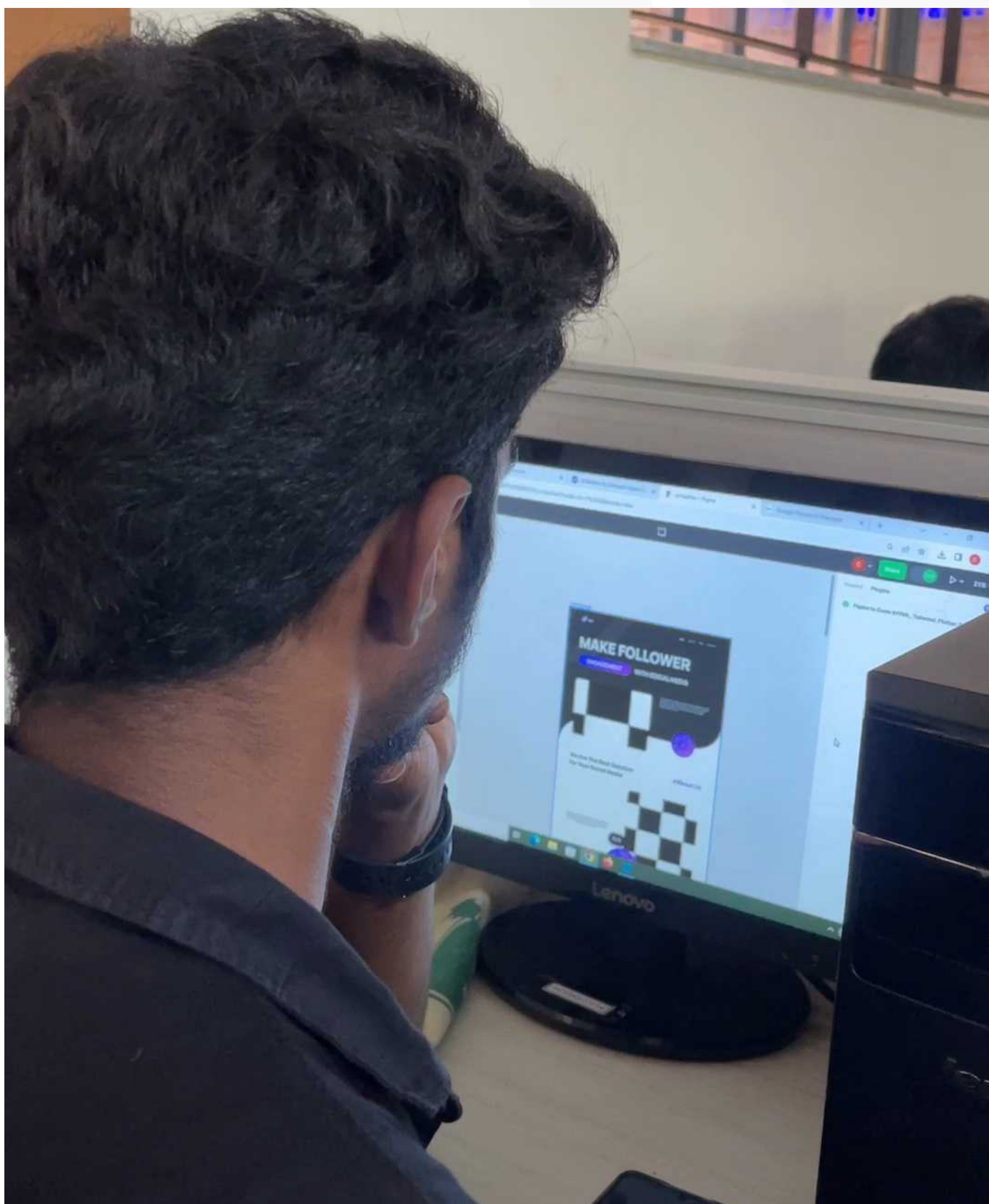
Date: 8th December 2023

Subject: SOSC conducted UI Battles - a frontend cloning competition as part of Codeblaze 2023.

The UI-Battles event, held on December 8, 2023, at Sahyadri College of Engineering and Management. The competition was led by Srajan Kumar and Tejas Nayak B, from SOSC. The event, running from 1:30 PM to 3:45 PM, commenced smoothly with participants arriving on time and being assigned seats.

The first round, featuring JavaScript MCQ questions, concluded at 2:20 PM, followed by the web page cloning round. Despite minor issues such as login difficulties and temporary disconnections, they were promptly resolved by volunteers. Many participants, particularly first-timers, found the event enjoyable.

No. of participants: 50+ participants



Date: 8-9th December 2023

Subject: SOSC organized Codeblaze 2023 - a 20 hour onsite hackathon as part of Synergia, a national-level technical extravaganza.

Codeblaze, an initiative by SOSC, is a groundbreaking technical event sponsored by Sulthan Jewellers designed to foster individual growth and technical empowerment. With a diverse range of technical and non-technical activities, Codeblaze promises to ignite curiosity, innovation, and critical thinking among the participants.

The inaugural edition, Codeblaze 2023, featured a 20-hour hackathon that drew over 400 students from 25+ colleges. With more than 120 teams, participants tackled real-world problems, presenting innovative solutions across various industries. The event offered open-theme challenges and problem statements were provided by Niveus Solution, creating an atmosphere of intense collaboration and creativity.

No. of participants: 100+ teams & 400+ participants





Date: 23rd-25th December 2023

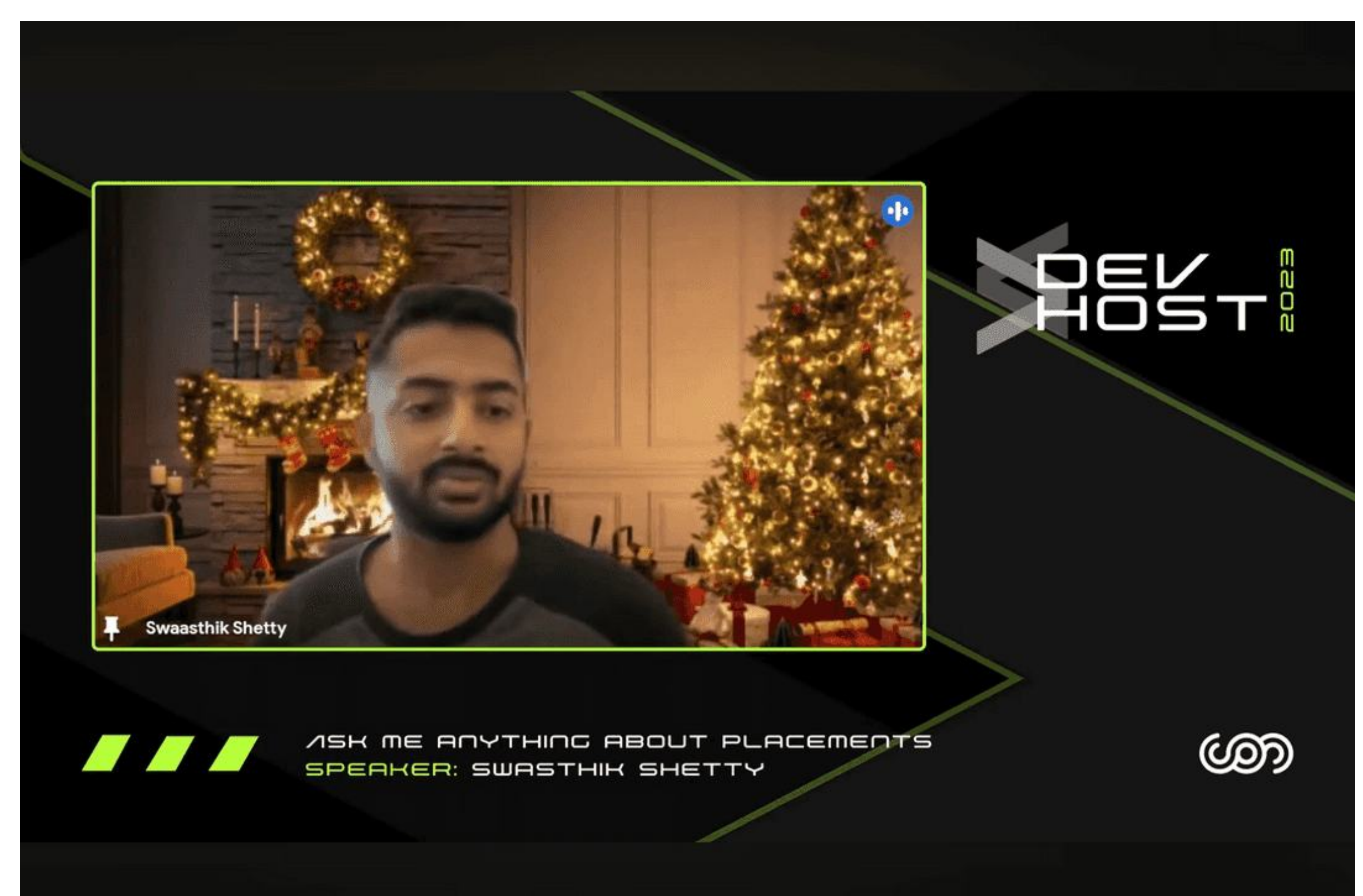
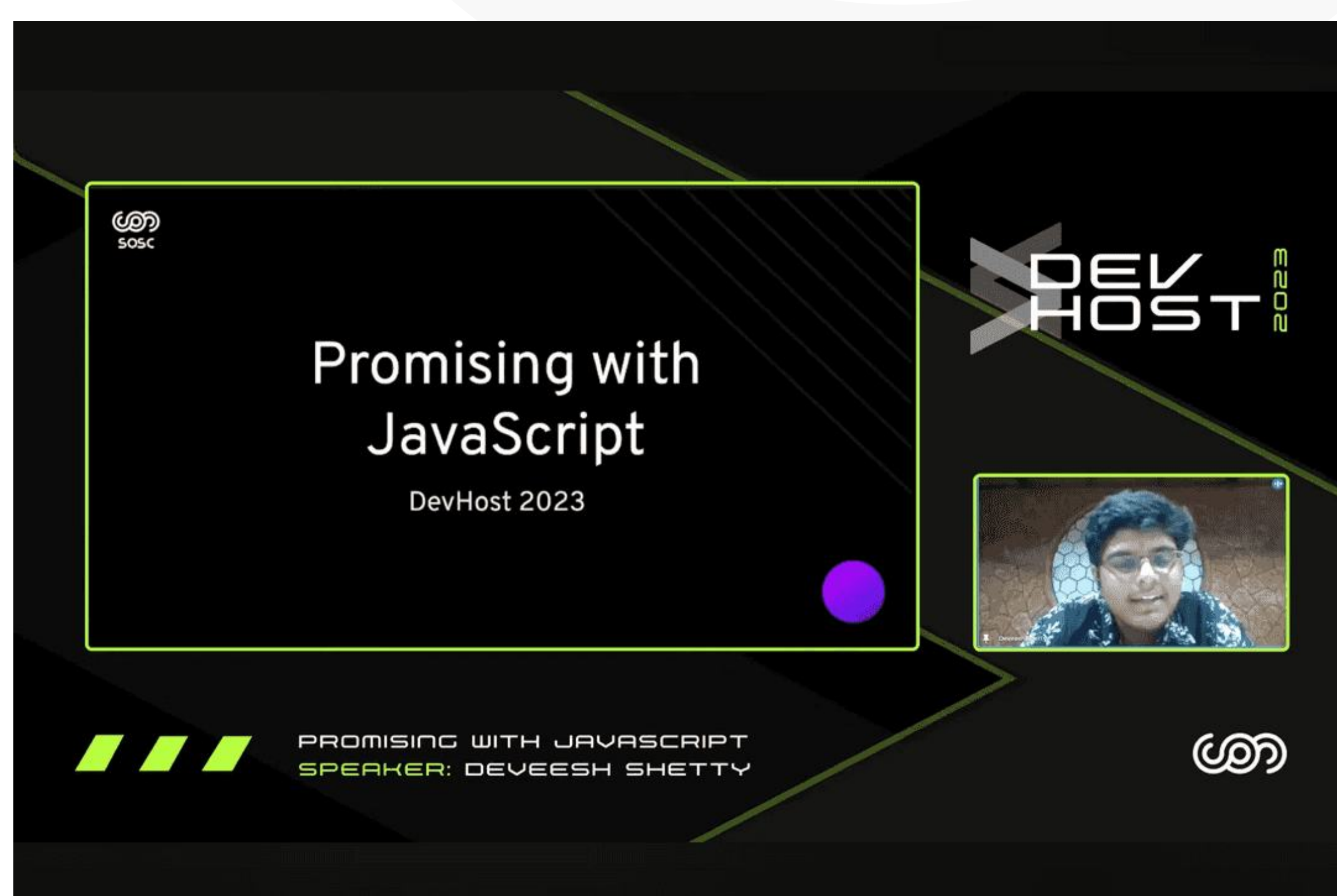
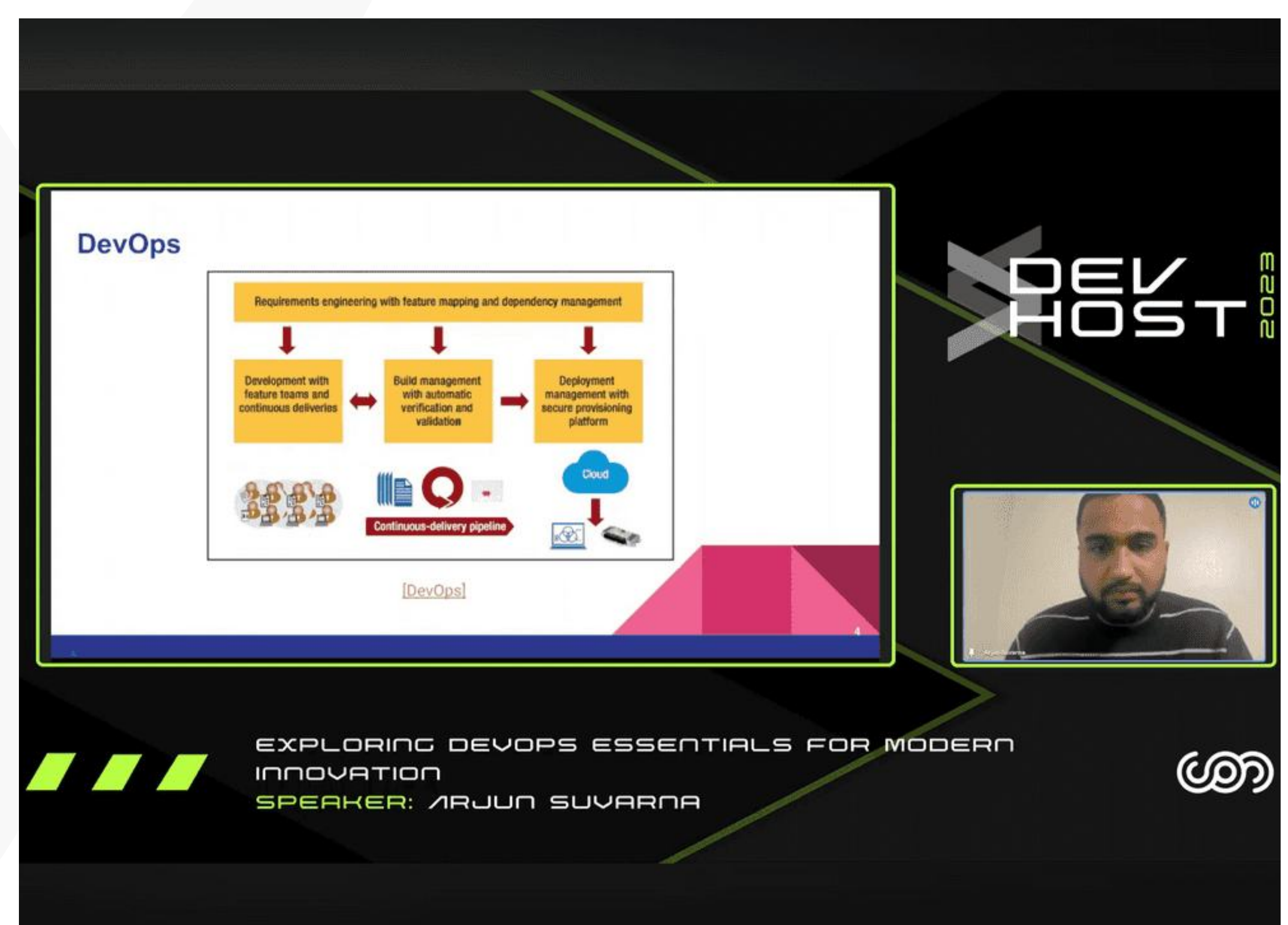
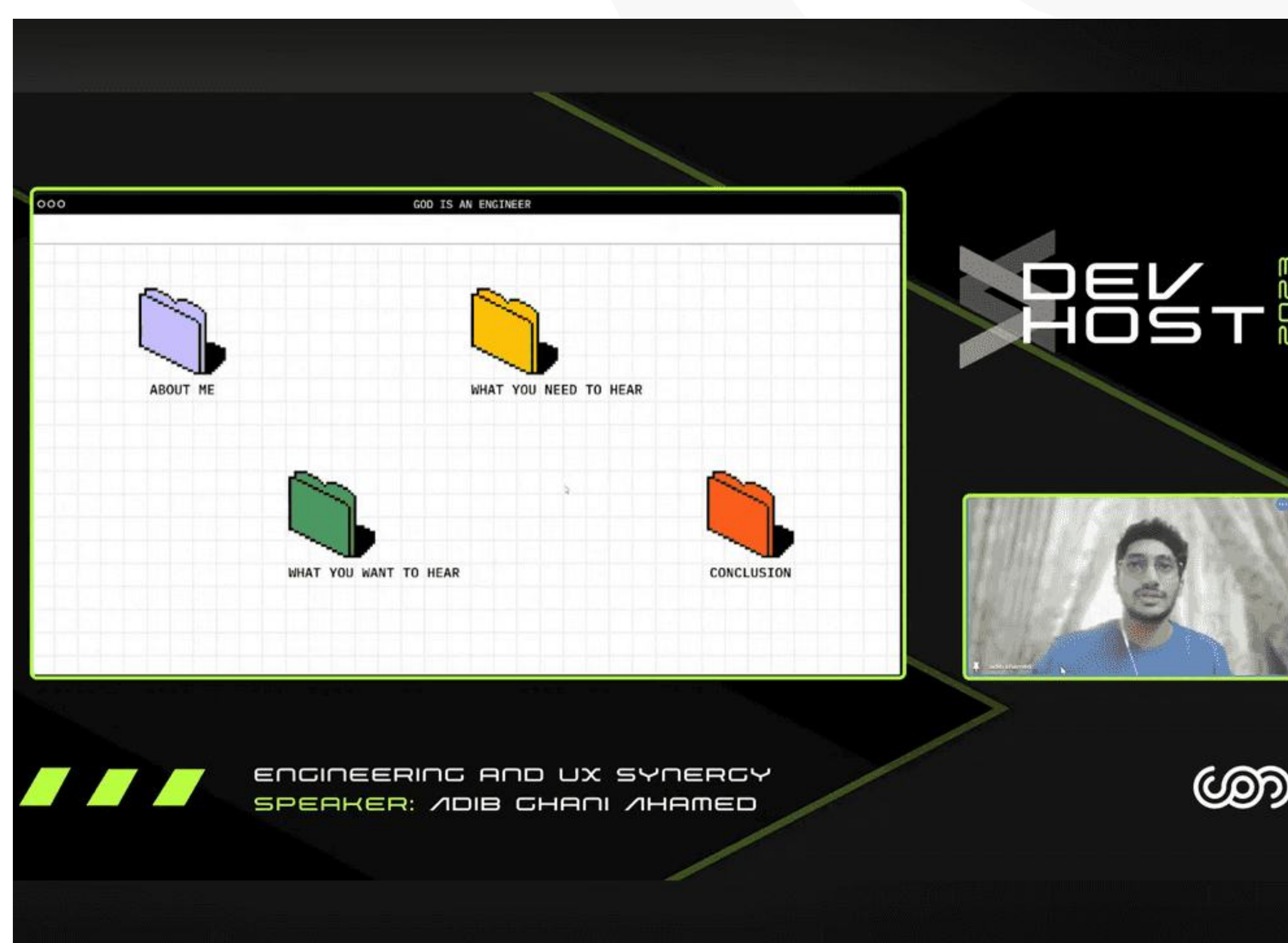
Subject: SOSC organized Devhost 2023 virtually.

DevHost 2023, SOSC's flagship annual event, convened young developers from across Karnataka for a collaborative two-day gathering which focused on emerging technologies and practical training. The event featured insightful talks by industry leaders :

- Mohammed Shahid, who spoke about leveraging Salesforce Cloud for business growth;
- Arjun Suvarna, who covered DevOps essentials for fostering innovation;
- Adib Ghani Ahamed, who highlighted the synergy between engineering and UX design.
- Swasthik Shetty led an interactive session on placements, drawing from his experience at Google,
- Deveesh Shetty concluded with an engaging session on JavaScript, inspiring attendees to innovate and explore new technological avenues.

Overall, DevHost provided a comprehensive platform for skill development, knowledge sharing and networking among aspiring developers.

No. of participants: 100+ participants





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Date: 20th January 2024

Subject: SOSC conducted workshops on Python for MBA students.

In the past, the Sahyadri Open Source Community (SOSC) was approached by the MBA department with a request to conduct a comprehensive Python course for their students. This course spanned 10 hours, with two-hour sessions scheduled each week. The primary focus was on teaching the fundamentals of Python programming, with an emphasis on its practical applications in Excel and data analytics.

As a gesture of gratitude for our collaboration, the MBA department awarded SOSC with certificates of appreciation and provided monetary support for the organization. This initiative not only strengthened ties between SOSC and the MBA department but also enhanced the technical skills of the MBA students, equipping them with valuable programming knowledge for their future endeavors.

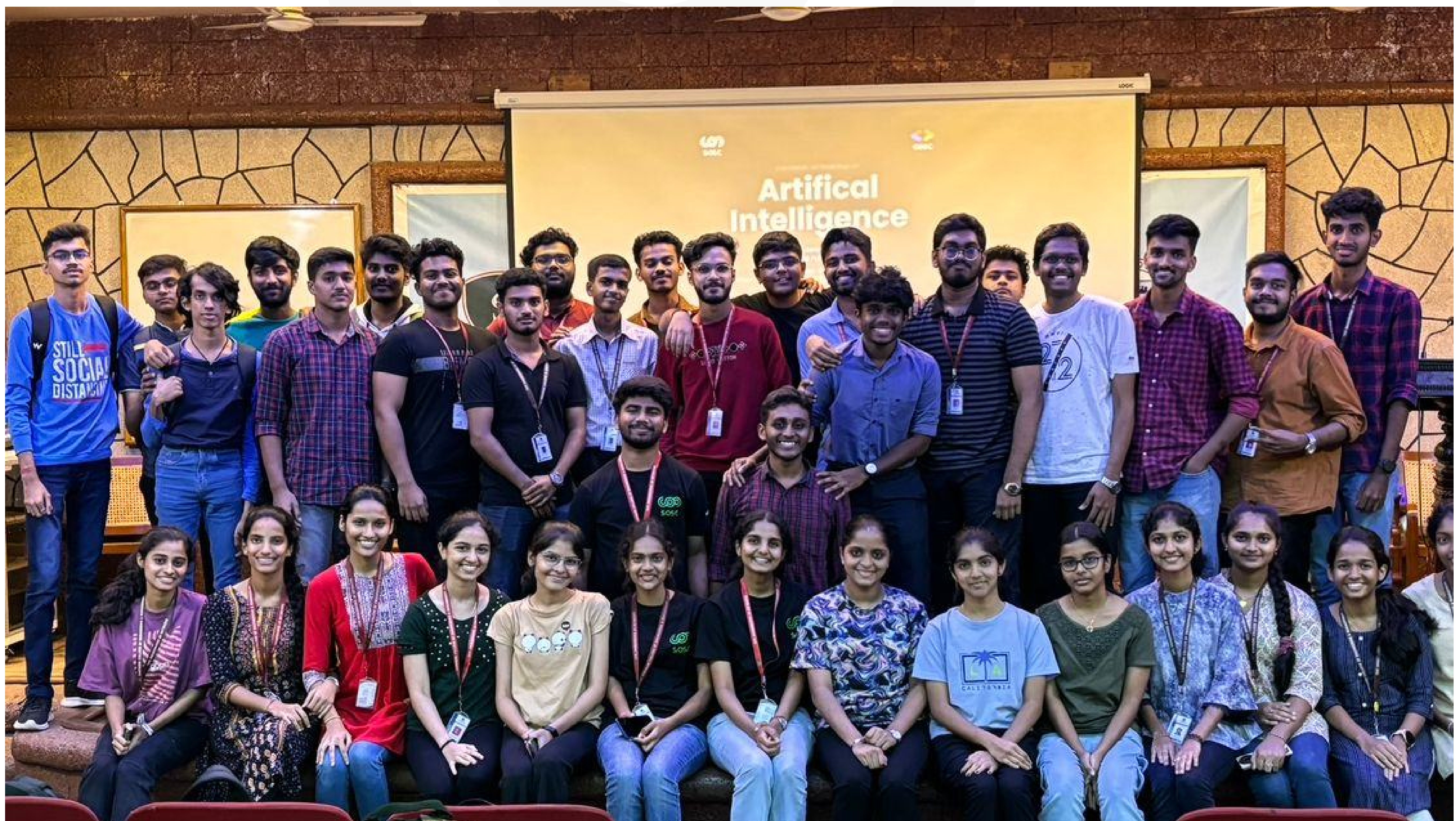
No. of participants: 80+ MBA students

Date: 29th January 2024

Subject: SOSC organized a workshop on Artificial Intelligence in collaboration with GDSC (Google Developer Students Club)

On January 29th, 2024, the Google Developer Student Club (GDSC) and the Sahyadri Open Source Community (SOSC) jointly organized an insightful workshop on Artificial Intelligence (AI) and Machine Learning (ML) at the Ground Floor Seminar Hall, starting at 3:30 p.m. The session was led by Srujan Rai, the Computer Vision and IoT lead at SOSC. The workshop provided participants with a solid foundation in AI and ML, beginning with an introduction to Machine Learning. Attendees explored regression algorithms, including linear regression and KNN, before advancing to deep learning concepts. The focus on practical applications was reinforced with a hands-on project on handwriting recognition using Python libraries. The event was a remarkable success, offering students exposure to advanced AI and ML concepts and igniting a passion for exploration in this dynamic field.

No. of participants: 45+ participants





Date: 17/06/2024.....

# DevHost 2024 Report

## Three-Day Detailed Event Schedule

### Day 1: June 14, 2024 (Friday)

- 9:00 AM : Inaugural Keynote by Suyog Shetty, CEO of Niveus Solutions.
- 10:00 AM : Entrepreneurship talk by Suyog Shetty, "From Passion to Profit: Niveus' Journey from Startup to Scalability".
- 11:00 AM : Technical session by Nibraz Rehaman, DevOps Engineer at Pacewisdom, "The Multiverse of OS: A Deep Dive into Dual Boot, VMs, and Containers".
- 12:15 PM : Open Networking session.
- 1:45 PM :
  - i) Masterclass by Subodh I, Blockchain Developer at AE Labs, "Level Up Your Web3 Game using Smart Contracts" (Skill Lab- 1)
  - ii) Dev Ops Masterclass by Rohan Y, Pruthvija Shetty, and Rajesh Nayak from Niveus Solutions, "DevOps Fundamentals: Building a Strong Foundation" (Skill Lab- 2).
- 4:00 PM : Open Networking session.

### Day 2: June 15, 2024 (Saturday)

- 9:30 AM : Developer talk by Mr. Johnson Tellis, CEO of Bhandary Foundation
- 10:30 AM : Technical talk by Nikhil Raj, Former Head of Talent Management at TCS Europe, "Unlock Your Earning Potential: From Engineering to Corporate".
- 11:30 AM : Panel Discussion on "From Coastal Town to IT Hub: The Rise of Mangalore's IT Industry".
  - i) Shashir Shetty, Chief Growth Officer, Niveus Solutions.
  - ii) Shihab Kalander, Co-founder and CCO, Novigo Solutions.
  - iii) John Fernandes, Engineering Manager, Unicourt.
- 12:15 PM : Open Networking session.
- 1:45 PM : Panel Discussion on "Cracking the MAANG Code: What It Takes to Get Hired in Top IT Companies".
  - i) Nikhil Raj, Former Head of Talent Management, TCS Europe.
  - ii) Prasanna, Lead, Big Data Center of Excellence, TCS BFS.
  - iii) Ram Balakrishnan, Principal Program Manager, Azure Microsoft, Seattle.



Date: 17/06/2024.....

- 2:30 PM :
  - i) Masterclass by Mohit Tahiliani, Associate Professor at NITK Surathkal, "10X Your API Productivity: Mastering APIs using Postman" (Skill Lab- 1).
  - ii) Masterclass by Akshay Kumar U, Founder, Abhyudaya Softech, "GEN AI for Dummies: A Beginner's Guide to LLMs" (Skill Lab- 2).
- 4:30 PM : Open Networking session.
- 5:00 PM : Hackathon Onboarding session.
- 6:00 PM : Hackathon Kick-off.

### **Day 3: June 16, 2024 (Sunday)**

- 12:00 AM : Mentoring Sessions conducted by Meena Nagappan, Jaison Dias, Amrit Shenava, Shailesh Shetty, Nihal Suvarna, Anmol Kamath and Akshay Kumar U.
- 2:00 PM : End of Hackathon and Final Presentations.
- 4:00 PM : Keynote by Hackathon Judges.
- 4:30 PM : Prize Distribution and Valedictory Ceremony.



Date: 17/06/2024

## Three-Day Detailed Event Schedule

### Inauguration Ceremony:

The event began with the ceremonial lighting of the lamp by Mr. Suyog Shetty, CEO of Niveus Solutions; Dr. S.S. Injaganeri, Principal of Sahyadri College of Engineering and Management; and Dr. Mustafa Basthikodi, Head of the Department of Computer Science and Engineering. Deveesh Shetty, President of the Sahyadri Open Source Community (SOSC), delivered the opening address, outlining the agenda and upcoming events. Dr. Mustafa Basthikodi provided insights into SOSC's role in fostering innovation and learning, emphasizing the various activities organized under its banner.



### Chief Guest Address:

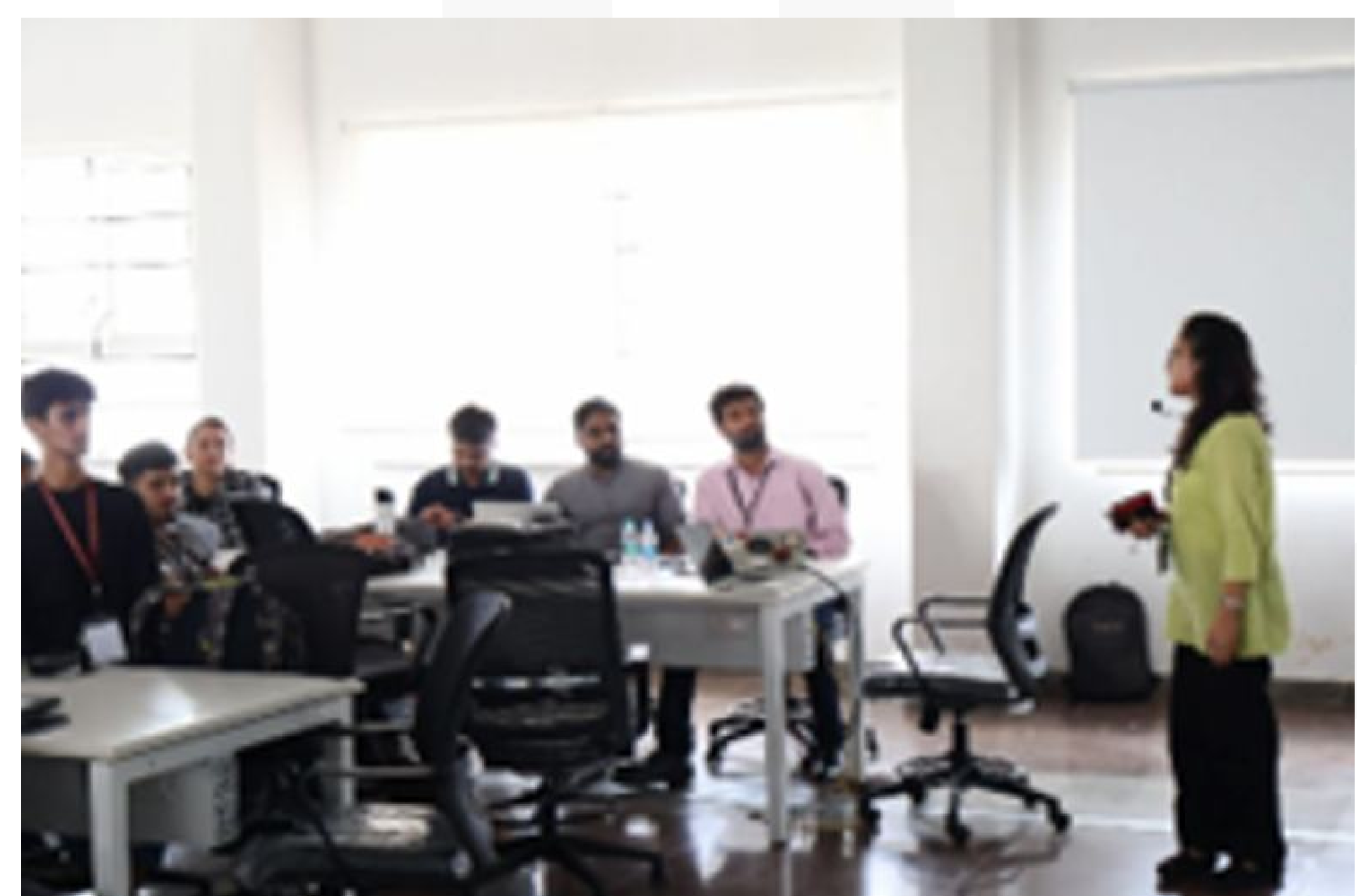
Mr. Suyog Shetty shared an inspiring narrative of Niveus Solutions' journey from a startup to a successful enterprise, highlighting the importance of perseverance and strategic growth. Dr. S.S. Injaganeri underscored the significance of such events in providing students with essential industrial exposure and expressed hopes for future collaborations to enhance students' industrial acumen.



Nibraz Rehaman, a DevOps Engineer from Pacewisdom, presented a session titled "The Multiverse of OS: A Deep Dive into Dual Boot, VMs, and Containers." He discussed the evolution of operating systems, the practical benefits and setup best practices of dual boot systems, the architecture and importance of virtual machines for development and testing, and the use of containerization tools like Docker and Kubernetes in modern DevOps practices.



Subodh I from AE Labs conducted a masterclass on "Level Up Your Web3 Game using Smart Contracts," covering fundamental topics such as Web3, mining, proof of work, blockchain, wallets, and nodes. Concurrently, Niveus Solutions hosted a DevOps masterclass led by Mr. Roshan, Mr. Rajesh, and Ms. Pruthvija. Ms. Pruthvija discussed the transition from traditional technologies to modern cloud computing, while Mr. Roshan and Mr. Rajesh covered Jenkins pipelines and Docker containers. The competitive programming contest was held in the Smart Lab. This event, hosted by Sahyadri Open Source Community in association with the Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), aimed to validate the logical and programming skills of the participants. Around 100 participants took part in the contest.



## Day 2 Event Highlights

The first session of day two began with a talk by Mr. Johnson Tellis, CEO of Bhandary Foundation. He spoke about choices and uncertainties in life, sharing his journey from being a student at Sahyadri to becoming a CEO. He advised students to seize opportunities to expand their networks at events like DevHost.



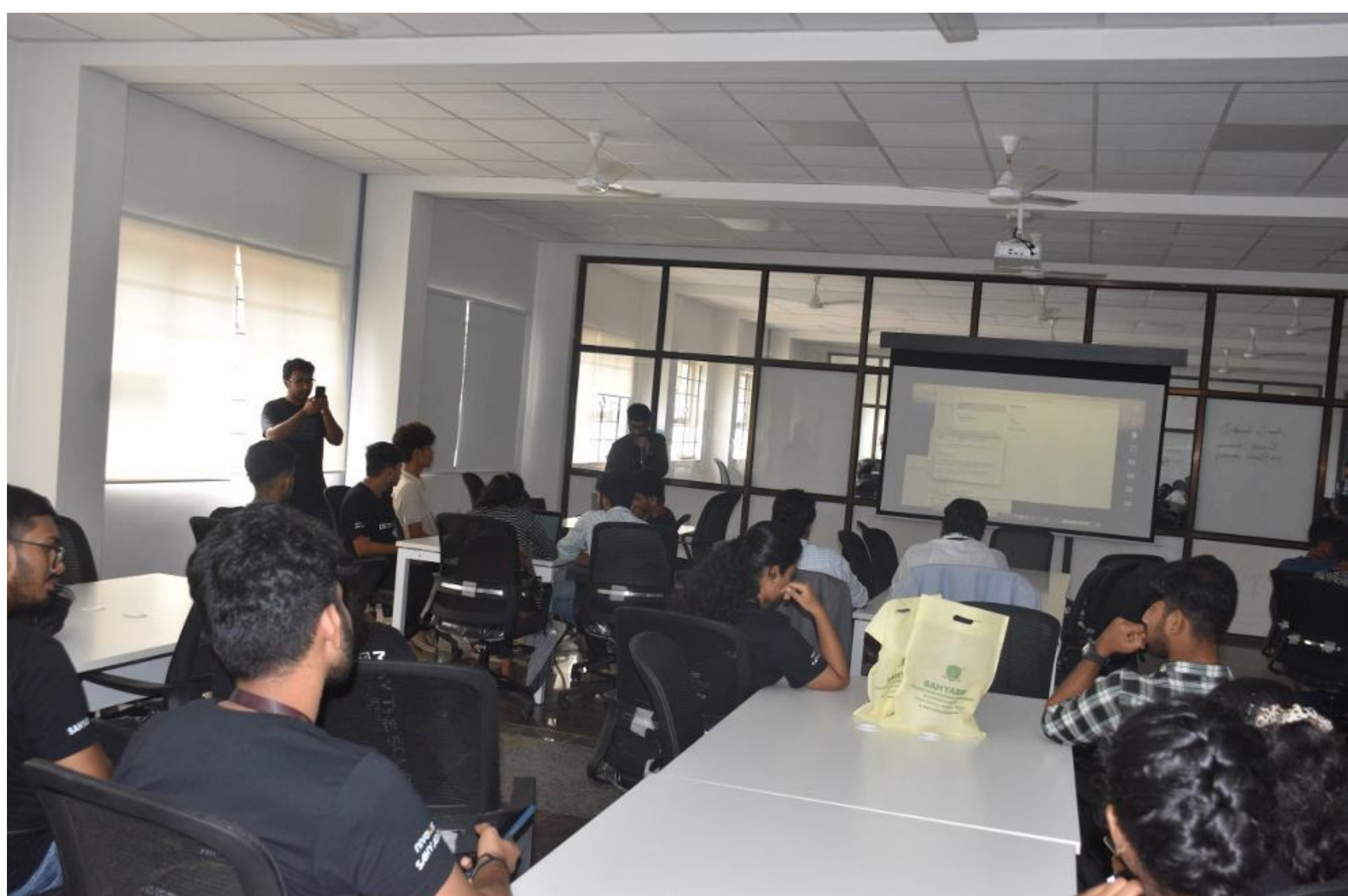
This was followed by Nikhil Raj, Former Head of Talent Management at TCS Europe, who delivered a technical talk on "Unlock Your Earning Potential: From Engineering to Corporate." Next was a panel discussion on "From Coastal Town to IT Hub: The Rise of Mangalore's IT Industry," featuring Shashir Shetty, Chief Growth Officer at Niveus Solution; Shihab Kalandar, Co-founder and CCO of Novigo Solution; and John Fernandes, Engineering Manager at Unicourt.





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Another highlight was the panel discussion "Cracking the MAANG Code: What It Takes to Get Hired in Top IT Companies," with insights from Nikhil Raj, Prasanna, Lead of the Big Data Center of Excellence at TCS BFSI; Ram Balakrishnan, Principal Program Manager at Azure Microsoft, Seattle; and Meena Nagappan. Afternoon sessions included "10X Your API Productivity: Mastering APIs using Postman" by Mohit Tahiliani, Associate Professor at NITK Surathkal, and "GEN AI for Dummies: A Beginner's Guide to LLMs" by Akshay Kumar U, Founder of Abhyudaya Softech. The pre-hackathon talk by Deveesh Shetty prepared participants for the hackathon, which commenced that evening.



## Day 3 Event Highlights

Day three focused on mentoring and the hackathon. Mentors included Jaison Dias, Amrit Shenava, Shailesh Shetty, Nihal Suvarna, and Anmol Kamath, who guided participants through the 20-hour hackathon. Evaluation was conducted by judges Sagar Vaidya, Chief Architect (Enterprise) at Niveus Solutions, and Sujith Kumar, Solution Architect at Niveus Solution. The top eight teams presented their solutions, followed by the valedictory function.



During the valedictory function, Deveesh Shetty summarized the event and thanked all participants. Dr. Mustafa Basthikodi extended gratitude to the SOSC DevHost organization team and sponsoring companies. Sagar Vaidya advised students to stay motivated despite challenges, while Sujith Kumar encouraged focusing on innovative solutions. Participants shared their experiences, and winners were announced.





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## Winners of DevHost hackathon 2024

**First Place:** Team Undefined, composed of Joywin Bennis, Anish Shobhith PS, Vaibhav K Salian, and Jenison Monteiro from St. Joseph Engineering College, Vamanjoor, Mangaluru, won first place. They received a cash prize of ₹15,000 and an internship at PaseWisdom.

**Second Place:** Team SystemX, featuring Keerthan S Suvarna, Aditya Shetty, Anzil Parveez, and Ashwin Pramod Bekal from Sahyadri College of Engineering and Management, Adyar, Mangaluru, secured second place. Their award included a cash prize of ₹10,000 and an internship at PaseWisdom.

**Third Place:** Team C-Sharks, including Babith Poojari, Bhat Nishanth Ganesh, Kaushik K U, and Anudeep K K, earned third place. They were rewarded with a cash prize of ₹5,000 and an internship at PaseWisdom.



## Conclusion

DevHost 2024 witnessed enthusiastic participation from 859 individuals and featured over 25 industry speakers. The hackathon attracted 20 teams from more than 12 colleges. The event achieved significant online engagement, reaching a broad audience interested in technology and innovation.

## Learnings & Outcomes

Participants benefited from:

- Insightful sessions
- Hands-on workshops
- Networking opportunities

The hackathon fostered:

- Collaboration
- Showcasing of innovative solutions to industry challenges

SOSC aims to:

- Expand DevHost with more diverse sessions
- Introduce larger hackathon challenges
- Increase industry collaborations

Plans include:

- Incorporating cutting-edge topics
- Attracting a broader international audience





Date: 09/09/2024

## IndiaFOSS Conference 2024 Report

On September 7 and 8, 2024, the IndiaFOSS Conference 2024 was conducted, dedicated to Free and Open Source Software (FOSS) at the NIMHANS Convention Centre in Bengaluru, organised by the FOSS United Community. SOSC was honoured to be selected to showcase a stall, allowing us to highlight our open-source contributions. Deveesh Shetty, Srujan Rai, Tejas Nayak, Zeliq Zayyan, Chinmay Varma V from the 7th semester, and Amrithraj N from the 5th semester represented SOSC. This opportunity enabled SOSC to present their projects and engage attendees through live demonstrations and discussions, fostering valuable feedback. The conference also provided ample networking opportunities, facilitating interactions with industry experts, developers, and students, which are crucial for collaboration and mentorship in the FOSS ecosystem.

Additionally, attended various talks and workshops that kept us updated on the latest trends and technologies, and inspiring new ideas for the projects. Engaging with the community reinforced the importance of collaboration and knowledge sharing in open-source software development. Overall, the participation enhanced visibility of SOSC within the FOSS community, provided hands-on experience with emerging technologies, and opened doors for future partnerships, making it a rewarding experience that will benefit their endeavours in the open-source landscape.





Date: 18/09/2024

## HackHarbor 2.0 Internship Report

The HackHarbor 2.0 internship, organized by the Sahyadri Open Source Community (SOSC) from September 2 to September 16, 2024, provided hands-on learning experiences for 852 third-semester students from the Information Technology, Electronics and Communication, and Mechanical Engineering departments, as well as diploma students from the third year. The internship delivered targeted training tailored to each department's focus areas.

The name HackHarbor symbolizes a place where students are anchored in their learning journey, much like boats anchored in a harbor before heading to sea. At HackHarbor, students receive guidance from peers as they navigate through knowledge, preparing to shape their paths.

The students were divided into three major domains:

### 1. Information Technology (IT)

- **Total Participants:** 682 students, organized into 11 classrooms.
- **Syllabus:** The internship started with the basics of setting up the programming environment and introduced fundamental concepts such as variables, data types, and control structures. Students then progressed to advanced topics, including dynamic memory allocation, data structures (stacks, queues, linked lists), strings in C, pointers, file handling, and memory management.
- **Responsibility:** The Sahyadri Open Source Community (SOSC) coordinated the IT sessions, with senior IT students providing guidance and support to their juniors throughout the program.

### 2. Basic Electronics and Communication (Non-IT)

- **Total Participants:** 120 EC students, with classes held in seminar halls and skill labs.
- **Syllabus:** EC students were introduced to fundamental electronics concepts, learning about key components like resistors, transistors, and LEDs. They explored electrical laws related to luminosity and intensity and used Tinkercad and Arduino to build circuits. Projects like traffic signal systems allowed students to apply their theoretical understanding in real-world scenarios.
- **Responsibility:** The Technical Career Education (TCE) directed the sessions for EC students and oversaw the practical work.

### 3. Basic Mechanical Engineering (Non-IT)

- **Total Participants:** 50 Mechanical students, with classes conducted in the Engineering Graphics and Smart lab.



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- **Syllabus:** Mechanical students concentrated on Computer-Aided Design (CAD), practicing drafting techniques, 2D design creation, and assembly processes. Through hands-on exercises, students developed a strong foundation in mechanical design principles. Additional training included preparing formal presentation PowerPoint slides, pitching ideas, understanding patents, and resume preparation.
- **Responsibility:** The sessions were conducted under the supervision of the Mechanical Engineering Department, ensuring students received proper support and guidance.

### Daily Activities

Each day started with theoretical lessons in the morning, enriched with real-life examples to bridge theory and practical. Afternoons were dedicated to problem-solving activities where students applied what they learned. Top performers, who solved the most problems, were rewarded with swags, fostering a competitive and engaging learning environment.

### Ideathon and Hackathon

An Ideathon was held on September 13, 2024, where students selected problem statements and developed solutions using C programming. EC students built prototypes based on their internship training. 30 teams were shortlisted for the Hackathon on September 16, where they presented their solutions or prototypes. The top three teams were awarded for their outstanding performance.

### Outcomes

- The internship promoted stronger peer-to-peer learning and collaboration between juniors and seniors.
- IT students developed a solid understanding of C programming concepts and applied them in both the Ideathon and Hackathon.
- All participants benefited from practical, hands-on problem-solving exercises, greatly improving their critical thinking and teamwork skills.

### Challenges

- Frequent Wi-Fi disconnections, occurring every 5-10 minutes, interrupted the activities.
- Managing students with varying skill levels posed organizational challenges.
- Overcrowded classrooms affected comfort and participation, while a shortage of volunteers on certain days hindered smooth session execution.
- Taking attendance was difficult for the faculties, as students were distributed across multiple classrooms.



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### Improvements

- Introducing more advanced topics or expanding beyond basic C programming would provide students with a broader skill set.
- Incorporating daily projects could ensure continuous practical engagement and improve knowledge retention.
- Ensuring the availability of adequate extension cables, sockets, and microphones would enhance the overall learning environment.
- Addressing overcrowding in classrooms would improve comfort and participation.

### Contributors

The following students have actively contributed to the success of the HackHarbor 2.0 internship:

Pratheek G Shetty	Shreelakshmi Pai	Chinmaya Varma V	Meghana
Amrithraj N	Manushree.P.B	Anisha	Meghashree K
Sushmitha	Ashika	Hrithik J Shetty	Shashank Patil
Achal Venkatesh K	Abhijna Rao	Aaron Fernandes	M Nishant Shriniwas
Samreena	Himanshu Shetty	Navya	M Yohima Shetty
Disha	Akkil M G	Diya Raj	Neethi H Rao
Apeksha L Naik	Rithuparna K.S	Evita Sharon Barboza	Manhitha Sunil
Kshama s	Rishabh Laxmikanth	Sameeksha Menda	Nishith B L
Aditi S Naik	Aditya Sunil Nadiger	Pranamya	Raviraj. M. J
Puvith Kumar	Madhukar Bhaktha	Swasthik R Prabhu	Speaker
Spoorthi R Hegde	Srujan Rai	B Yash Kamal Shetty	Speaker
Mohammad Muzammil	Sannidhi Kaje	Skanda Ganesh P V	Speaker
Srishti Rai M	Shrutha J Shetty	Neha Shetty	Speaker
Ananya K.S.	Rohan	Ranjana M Suvarna	Speaker
M Ananth Hegde	Naizil Francis D Costa	Pratheeksha	Speaker
Vaishakh A	Sujan Kumar Shetty	Abdul Suzaan Ahmed	Speaker
Advait S Shetty	Rishab Budale	Sameeksha M P	Speaker
Nithesh Alva	Deveesh Shetty	Dhanya D Shetty	Speaker
Mohammed Imaad Iqbal	Tejas Nayak B	Ashish Goswami	Speaker



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### **Sahyadri Open Source Community (SOSC) Office bearers**

**President:** Deveesh Shetty

**Vice-President:** Varshaa Shetty

**General Secretary:** Tejas Nayak

**Treasurer:** Ananya PK

**Technical Lead:** Manjunath Bhat

**Design Lead:** Zeliq Zayyan

**Content Lead:** Srujal

**Content Co-lead:** Shreya Shenoy

**Marketing Lead:** Pratheeksha S

**Sponsorship Lead:** Samanvitha

**Media Lead:** Adithya SN

### **Domain Specific Leads**

**Web Development:** Srajan and Tejas GK

**Competitive Coding and DSA:** Sankshipth Shetty

**App Development and Python:** Akkil MG

**Internet of Things and Computer Vision:** Srujan Rai

**Artificial Intelligence and Machine Learning:** Achal and Rishabh L

**Cybersecurity:** Rishabh Budale and Sushruth Rao

### **Sahyadri Open Source Women's Community (SOSWC)**

**President:** Nihara Padil

**Vice-President:** Heba

**General Secretary:** Hamshini Shetty