

तेजस गणक

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Official Newsletter

Department of Computer Science & Engineering

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MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY, DELHI

DEPARTMENT

VISION

To attain global excellence through education, innovation, research, and work ethics in the field of Computer Science and engineering with the commitment to serve humanity.

MISSION

M1 To lead in the advancement of computer science and engineering through globally recognized research and quality education.

M2 To prepare students for full and ethical participation in a diverse society and encourage lifelong learning.

M3 To foster development of problem solving, programming and communication skills as an integral component of the profession.

M4 To cultivate an environment supporting incubation, product development, technology transfer, capacity building and entrepreneurship in the field of computer science and engineering.

M5 To encourage faculty, student's networking with alumni, industry, institutions, and other stakeholders for collective engagement.

Program Educational Objectives (PEO)

PEO1: Graduates work with top institutions and researchers, dedicating themselves to lifelong learning and social responsibility.

PEO2: Graduates exhibit outstanding communication skills and the capacity to collaborate effectively within diverse teams.

PEO3: Graduates cultivate skills in computer science and engineering, driving innovation, entrepreneurship, and economic growth.

PEO4: Graduates network with stakeholders to contribute to the growth of the department.

Program Specific Outcome (PSO)

PSO1: Able to explore and apply emerging technologies in computer science and engineering such as Artificial Intelligence, Machine Learning, Data Science, etc.

PSO2: Able to independently and collaboratively design, develop and evaluate innovative solutions to existing problems, addressing the needs of industry and society.

PSO3: Able to pursue advanced studies, conduct research and development, and cultivate entrepreneurship skills in the modern computing environment.



FACULTY UPDATES Faculty members pursuing Ph.D.

Mr. Ashish Sharma

Mr. Ajay Kumar Tiwari

Ms. Deepti Gupta

Ms. Garima Gupta

Ms. Karuna Middha

Ms. Kavita Saxena

Ms. Mini Agarwal

Ms. Neetu Garg

Ms. Shallu Juneja

Ms. Zameer Fatima

Ms. Savita Sharma

MESSAGE FROM HOD



Department of Computer Science & Engineering commits to work towards developing Engineers with a rich blend of competent, technical, managerial and social skills and contribute to nation building. Department places emphasis on all the important aspects of computers such as Computer Networks, Mobile Communication, Algorithm Design, Operating System, Advanced Database Systems, Theory of Computation, Computer Graphics and many more. Department takes the initiative to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the competition in the corporate world confidently. To meet the objectives, department pays special emphasis on teaching and hands on practical work.

Students exhibit their innovative ideas, skills and potentials as final year projects and have won many awards at National and International levels.

The excellent infrastructure, experienced team of faculty dedicates to strengthen effective teaching learning process ensuring quality education. We believe that this approach to teaching-learning, coupled with practical experience gained during Industrial Training in reputed organizations, equips our students to handle the challenges posed by the IT industry. Students of Computer Science and Engineering are placed with top IT companies. We as a team resolve to take the Department to heights of success and glory and prepare for the forthcoming challenges.

-Prof. Namita Gupta (HOD, CSE)

DEPARTMENT INTAKE

First Shift: 300
Second Shift: 60



PLACEMENTS (2024)



PLACEMENTS(2021-2025) BATCH

COMPANY	TOTAL STUDENT PLACED	SALARY IN LPA	COMPANY	TOTAL STUDENT PLACED	SALARY IN LPA
Accenture	55	4.5	Protiviti	4	
Avalon	8	8	Recruit CRM	1	
Ayuvya	1	3.6	RTDS	3	
DE Shaw	1	52.3	SHL	2	
Deloitte	2	7.6	Siya Consulting	2	
Flora Steels	2	4.5	Talent Trek	4	
FNZ Group	2	10	Teachnook	19	
Hashedin	2	8.1	TFT	2	
Infosys(SE)	52	11	The Curious bunny studio	1	
Infosys(SPHWI)	3		TLG(Public is Sapient)	2	
Infosys(SP)	1		To The New	1	

PLACEMENTS(2021-2025) BATCH

ION Group	8		Turing	1	
Josh Technology	3		WNS	5	
LawStream	3		Xceedance	5	
Optimus	1		Young Turks	1	
OSTTRA	3		ZS Associate(BTS A)	19	
Polestar	6		ZS Associate(DA A)	2	

STUDENT PURSUING HIGHER EDUCATION

S.NO	NAME OF STUDENT (ROLL NO.)	NAME OF COURSE	UNIVERSITY	PLACE/ LOCATION
1	Agastya Todi (01114802720)	MS CS	Texas A&M	Texas, USA
2	Divleen Kaur Chugh (36014802720)	MS in Computer Science (AI Specializati on)	University of Southern California (USC)	Los Angeles, California, USA



GSSIPU RESULTS (2024)



GSSIPU RESULTS (2024)

TOP 10 ACHIEVERS OF CSE DEPARTMENT

S.NO.	ENROLLMENT NO.	STUDENT NAME	PERCENTAGE	CPI
1.	15614802723	ARNAV BHARDWAJ	100.00	95.23
2.	16914802724	RICHA GARG	100.00	94.8
3.	35396402723	SUHANI KHOSLA	98.5	94.11
4.	03896402724	SADHIK SEHGAL	98.4	93.04
5.	01614802724	GURJYOT SINGH	98.8	92.04
6.	02714802724	VINAYAK VASHISHTHA	98.4	95.6
7.	00914802724	SHIVAM GUPTA	97.2	93.52
8.	00214802721	YASH GUPTA	96.9	91.57
9.	20114802722	KASHISH JAIN	96.9	91.53
10.	02214802723	DEVANSH GARG	96.9	89.84



TOP ACHIEVERS OF 7TH SEM CSE DEPARTMENT

BATCH (2021-2025)

S.NO.	ENROLLMENT NO.	STUDENT NAME	PERCENTAGE	CPI
1.	00214802721	YASH GUPTA	96.9	91.57
2.	01314802721	ARSHDEEP SINGH	95.8	89.30
3.	01014802721	ANSH GOYAL	94.6	89.88
4.	00196402721	ARYAN GUPTA	94.2	84.23
5.	04714802721	JAI SUKHEJA	94.2	86.19
6.	05214802721	NAVEEN SOLANKI	94.2	86.76
7.	14514802721	MANIKA GOYAL	94.2	86.61
8.	00914802721	SHIVAM BAJPAI	93.8	88.11

TOP ACHIEVERS OF 5TH SEM

CSE DEPARTMENT

BATCH (2022-2026)

S.NO.	ENROLLMENT NO.	STUDENT NAME	PERCENTAGE	CPI
1.	20114802722	KASHISH JAIN	96.9	91.53
2.	02196402722	NISHANT BANSAL	96.2	88.15
3.	20414802722	HIMANSHI JAIN	95.8	88.92
4.	20214802722	DRISHTI NANDA	94.6	90.7
5.	00896402722	JAI OBEROI	94.2	86.92
6.	12014802722	SHRUTI AGARWAL	93.8	86.34
7.	35114802722	PRIYAANSHU SENGUPTA	93.8	87.1
8.	35214802722	GARV BAWEJA	93.1	86.34



TOP ACHIEVERS OF 3TH SEM

CSE DEPARTMENT

BATCH (2023-2027)

S.NO.	ENROLLMENT NO.	STUDENT NAME	PERCENTAGE	CPI
1.	15614802723	ARNAV BHARDWAJ	100.00	95.23
2.	35396402723	SUHANI KHOSLA	98.5	94.11
3.	02214802723	DEVANSH GARG	96.9	89.84
4.	14214802723	TANISHQ SETHI	96.5	89.30
5.	01196402723	VAIBHAV GARG	96.5	88.34
6.	14314802723	MRIDUL RASTOGI	95.8	90.1
7.	00296402723	DHRUV PAHUJA	95.4	88.84
8.	02914802723	HUNAR KHANNA	95.4	89.23

TOP ACHIEVERS OF 1st SEM CSE DEPARTMENT BATCH (2024-2028)

S.NO.	ENROLLMENT NO.	STUDENT NAME	PERCENTAGE	CPI
1.	16914802724	RICHA GARG	100.00	94.8
2.	01614802724	GURJYOT SINGH	98.8	92.04
3.	03896402724	SADHIK SEHGAL	98.4	93.04
4.	02714802724	VINAYAK VASHISHTHA	98.4	95.6
5.	00914802724	SHIVAM GUPTA	97.2	93.50
6.	04314802724	GUNJIKA ADHIKARI	96.8	93.32
7.	21814802724	ANISH SABHARWAL	96.8	89.52
8.	01114802724	SARTHAK MALIK	96.4	89.12



FACULTY ACHIEVEMENTS



Ph.D ACHIEVEMENTS

1. Dr. Ruchi Goel completed Ph.D. in "Design and Analysis of Video Summarization Approaches using AI Techniques", Delhi Technological University, under Prof. Dr. Prashant Giridhar Shambharkar, on 27th November, 2024.



BOOK PUBLICATIONS

S.No.	Faculty Name	Title of Book	Publication Month & Year	Publisher

PAPER PUBLICATIONS JOURNAL

S.No.	Faculty Name	Title of Paper	Publication Month & Year	Journal Name	DOI	ISSN of Journal	Vol., Page No.
1	Mr.Ajay Tiwari	Chicken swarm algorithm with deep convolutional neural network based tongue image analysis for gastric cancer classification	August 2024	Intelligent Decision Technologies	https://doi.org/10.3233/IDT-240138	-	vol. 18, Issue: 3, pp. 2241-2253
2	Mr.Anupam Kumar	Hybrid bio-inspired computing in medical image data analysis: A review	August 2024	Intelligent Decision Technologies	https://doi.org/10.3233/IDT-241023	1872-4981	pp:1-18
3	Dr. Sakshi Pandey	Cardinality Constraint Non-Uniform Sampling for Maximizing Reconstruction Accuracy of Time-Varying Signals	September 2024	IEEE Transactions on Information Theory	https://ieeexplore.ieee.org/abstract/document/10556781	1557-9654	vol. 70, no. 9, pp. 6746-6756
4	Dr.Sanjeev Kumar	Machine Inspired IOT based Frame work for Real-Time Heart Disease Prediction	September 2024	Communication Networks and Information Security	-	2073-607X,2076-0930	Vol. 16 Issue. 4
5	Dr.Sanjeev Kumar	An Efficient ANN-Based Soft Computing Approach for Energy Optimization in Wireless Sensor Networks	September 2024	Communication Networks and Information Security	-	2073-607X,2076-0930	Vol. 16 Issue. 3
6	Ms. Ruchi Bhatt	Detecting the undetectable: GAN-based strategies for network intrusion detection	September 2024	International Journal of Information Technology	https://doi.org/10.1007/s41870-024-02172-7	Electronic ISSN 2511-2112 Print ISSN 2511-2104	Vol. 16, pages 5231-5237

PAPER PUBLICATIONS JOURNAL

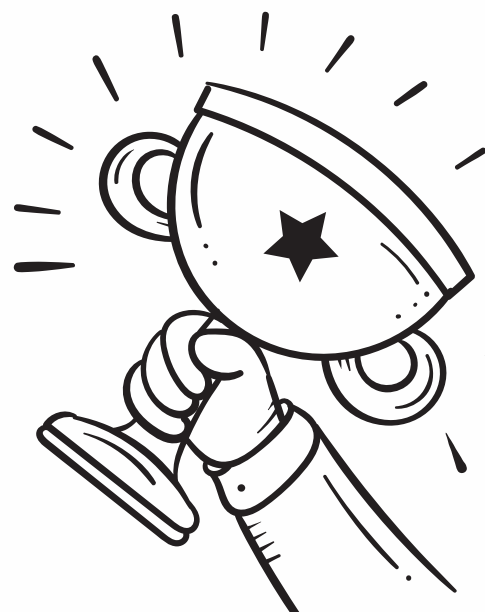
S.No.	Faculty Name	Title of Paper	Publication Month & Year	Journal Name	DOI	ISSN of Journal	Vol., Page No.
7	Dr.Moolchand Sharma SHARMA	Optimized differential evolution and hybrid deep learning for superior drug-target binding affinity prediction	November 2024	ALEXENDRA ENGINEERING JOURNAL	https://doi.org/10.3233/IDT-240138	ISSN 1110-0168,	Vol. 106,Pages 721-734
8	Dr.Deepak Gupta	Firefly Optimization-based Logistic Regression Classifier for Credit Card Fraud Detection	December 2024	Journal of Circuits, Systems, and Computers	https://doi.org/10.3233/IDT-241023	0218-1266	-
9	Dr.Nisha Aggarwal	An optimized IoT based framework for enhancing Mushroom cultivation	December 2024	International Journal of Information Technology	https://ieeexplore.ieee.org/abstract/document/10556781	2511-2112	Volume 17,pp:1119-1126
10	Mr.Anupam Kumar	Unveiling Lung Diseases in CT Scan Images With a Hybrid Bio-Inspired Mutated Spider-Monkey and Crow Search Algorithm	December 2024	Wiley Expert Systems	https://doi.org/10.1016/j.aej.2024.08.074	ISSN 1110-0168,	Vol. 106,Pages 721-734,



PAPER PUBLICATIONS CONFERENCES

S.No.	Faculty Name	Title of Paper	Publication Month & Year	Conference Name	DOI/Link	ISSN/ISBN No.	Proceedings Vol., Page No.
1	Dr.Moolchand Sharma	Image Denoising Using Autoencoder: Utilizing Deep Learning and Autoencoder Techniques to Enhance Natural Images by Eliminating Noisy Pixels and Grains	August 30-31,2024	International Conference on Innovative Computing and Communications. ICICC 2024	https://link.springer.com/chapter/10.1007/978-981-97-3817-5_18	978-981-97-3816-8	vol 1024., pp 259-272
2	Dr.Ankita Gupta	Dealing with fake news machine learning approaches to news classification	September 24-25, 2024	International Conference on Artificial Intelligence and Networking (ICAIN-2024)	Pre-print	Pre-print	Pre-Print
3	Mr. Anupam Kumar	Lung Disease Detection using Hybrid Parallel Crow Search and SpiderMonkey Algorithm	October 17-18,2024	International Conference on Computing and Communication Networks (ICCCNet-2024)	Pre-print	Pre-print	Pre-print
4	Dr.Sandeep Tayal	Comparative Analysis of Data Redundancy Strategies for Wireless Sensor Networks in Smart Cities	November 29, 2024	SCCTT-2024: International Symposium on Smart Cities, Challenges, Technologies and Trends	https://ceur-ws.org/Vol-3868/Paper2.pdf	-	pp:16-32
5	Dr. Yogesh Sharma	Comparative Analysis of Data Redundancy Strategies for Wireless Sensor Networks in Smart Cities	November 29, 2024	SCCTT-2024: International Symposium on Smart Cities, Challenges, Technologies and Trends	https://ceur-ws.org/Vol-3868/Paper2.pdf	-	pp:16-32
6	Mr. Ashish Sharma	Comparative Analysis of Data Redundancy Strategies for Wireless Sensor Networks in Smart Cities	November 29, 2024	SCCTT-2024: International Symposium on Smart Cities, Challenges, Technologies and Trends	https://ceur-ws.org/Vol-3868/Paper2.pdf	-	pp:16-32

STUDENTS ACHIEVEMENTS



Paper Publications Conferences/JOURNAL

S.No.	Name of Student	Enrollment No	Title of Paper	Name of the journal/conference/Seminar	Year	Category



STUDENT'S TECHNICAL ACHIEVEMENTS

HACKATHON WINNERS

S.No.	Enrollment No.	Name of Student	Team Name	Name of Event	International/National/State/Inter/Intra Level	Place of Event	Date of Event	Prize/Position
1	13014802722	Saubhagya Singh Bhadouria	Code Ciphers	Smart India Hackathon	National	Sri Venkateswara College of Engineering and Technology, Chittoor, Andhra Pradesh, India	11/12/2024	FINALIST
2	21014802722	Ishan Mehta						
3	00114802722	Samarth Arora	Box DEV'loppers	T-Hacks 7.0	-	Dr. Akhilesh Das Gupta Institute of Professional Studies, Delhi, India	14/10/2024	Under top 20
4	03096402722	Parth Goel	Hugs For Bugs	HackVortex Hybrid Hackathon	-	Jagan Institute of Management Studies, Sector - 5, Rohini, New Delhi - 110085	22/09/2024-25/09/2024	Participation and shortlisted for top 40
5	21014802722	Ishan Mehta	Code Ciphers	Smart India Hackathon (SIH) - 2024	National	Maharaja Agrasen Institute of Technology, Delhi, India	06/09/2024	Finalists
6	36714802723	Namrata Vohra	Aspire	Smart India Hackathon	National	Maharaja Agrasen Institute of Technology, Delhi, India	02/09/2024	Qualified college round
7	01914802722	Tanush Purwar	The Hephaestus Guild	Design-A-Thon	National	IIIT Nagpur, Maharashtra, India	23/10/2024	1st Runner Up

STUDENT'S TECHNICAL ACHIEVEMENTS

HACKATHON WINNERS

S.No.	Enrollment No.	Name of Student	Team Name	Name of Event	International/National/State/Inter/Intra Level	Place of Event	Date of Event	Prize/Position
8	05514802723	Aaryan Goel	Desi Disruptors	Dream Forge - Ultimate Ideathon	National	Delhi Technological University (DTU), Delhi, India	16/10/2024	2nd position
9	05814802723	Ashish Negi	Desi Disruptors	Dream Forge Ideathon	National	IEEE DTU Student Branch	14/10/24	2nd Position
10	06214802724	Sumit Bisht						
11	05514802725	Aaryan Goel						
12	04614802726	Avichal Singh						
13	35214802722	Garv Baweja	Astra	IBM SkillsBuild AI Internship 2024	National	Online	17/09/24	1st Position
14	36014802722	Sarthak Jain						
15	35214807222	Sudhanwa						
16	13014802722	Saubhagya Singh Bhadouria						
17	04314802722	Vaibhav Sharma	BitStream	Smart India Hackathon (SIH)	National	Maharaja Agrasen Institute of Technology, Delhi, India	10/09/2024	Semi finals
18	02014802722	Manan Agrawal						
19	02314802722	Piyush Gupta						
20	00114802722	Samarth Arora						
21	00714802722	Siddhartha Bhol	Apex	MUJ HACKX 2.0	National	Manipal University Jaipur	6/9/2024	IInd Runner Up, Cash prize 25000
22	36614802722	Akshat Vats						
23	35114812722	Riya						
24	35614802722	Kunal Dua						

STUDENT'S ACHIEVEMENTS

CULTURAL

S.No.	Enrollment No.	Name of Student	Name of Event	International/National/State/Intra Level	Place of Event	Date of Event	Prize/Position
1	35414802722	Gehna Gautam	Verses: Slam Poetry Competition	National	Jaypee Institute of Information Technology, Noida, Delhi-NCR, India	16/11/2024	1st place, 1500/-
2	02096402722	Anmol airi	Mait silver jubilee digital poster making	National	Maharaja Agarsen Institute of Technology, Delhi	25/10/2024	3100/-, 2 nd position
3	15814802723	Durga	Poster Making Competition Silver Jubilee	National	Maharaja Agarsen Institute of Technology, Delhi	25/10/2024	1st position (Rs.5100)
4	35414802722	Gehna Gautam	Mukhtalif	National	Gargi College, New Delhi, India	15/10/2024	Rs.2500/-
5	35414802722	Gehna Gautam	Mukhtalif: Not a Footnote- Slam Poetry Competition	National	Gargi College-DU, New Delhi, India	15/10/2024	1st Place, 2500/-
6	14214802723	Tanishq Sethi	Writers World India-WWI 8.0	National	Writers World India, India	10/08/2024	1st Position
7	35414802722	Gehna Gautam	Verses: Slam Poetry Competition	National	Jaypee Institute of Information Technology, Noida, Delhi-NCR, India	16/11/2024	1st place, 1500/-

STUDENT'S ACHIEVEMENTS

SPORTS

Enrolment number	Name of the Student	Name of the event	Level	Prize Amount/ Position	Date of event	Place of event
35314802722	Nimisha Bhateja	Silver Jubilee Sports Day Celebration	National	1st position Rs.11000/-	26/10/2024	MAIT, Delhi
35314802722	Nimisha Bhateja	19th Annual Sports Meet 2024	National	2nd Position	20/10/2024	GGSIPO
35614802722	Kunal Dua	Impluse'24 (Aimbot 2.0)	National	2nd Position	16/8/2024	MAIT, Delhi



EVENTS



Hands-on Workshop on Drone/UAV, UAS: Applications

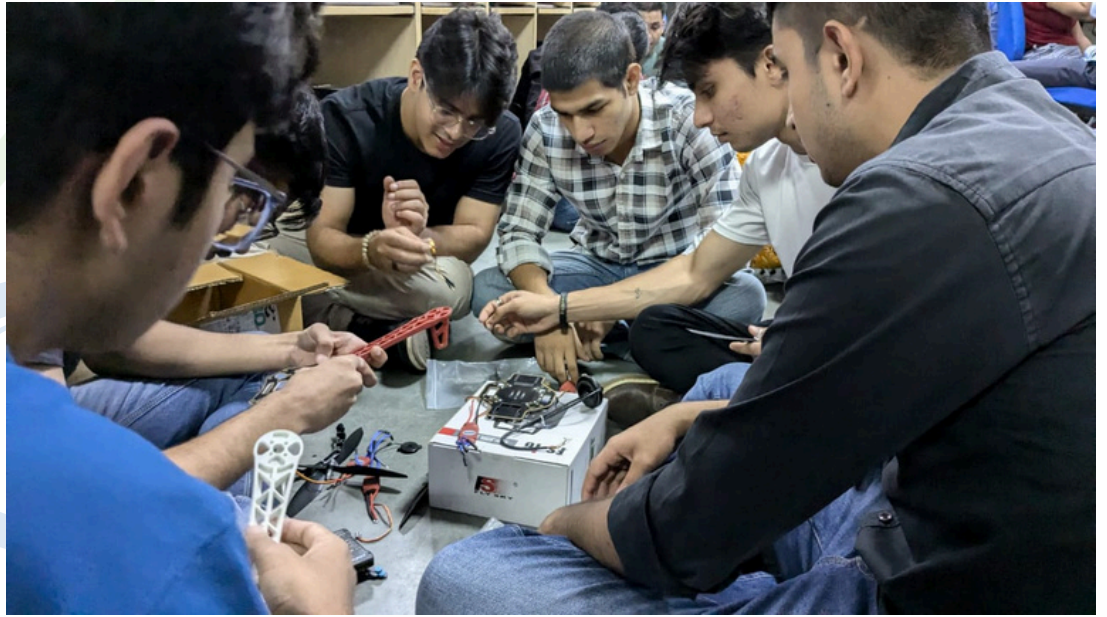
August 5th – August 9th, 2024

The Department of Computer Science and Engineering at Maharaja Agrasen Institute of Technology (MAIT), in collaboration with MEITY and C-DAC, hosted a one-week hands-on workshop titled "Drone / UAV, UAS: Applications and Security Challenges" from August 5th to August 9th, 2024. The workshop was organised under the guidance of Prof. Namita Gupta, HoD, CSE Department, convened by Dr. Ashish Khanna, with committee members Ms. Garima Gupta, Dr. Farzil Kidwai, Dr. Ankita Gupta, and Mr. Akshay Mool, the event aimed to provide an in-depth understanding of drone technology. The speakers for the workshop were Dr. Kalpna Johari, Scientist F and Dr. Kriti Saroha, Scientist E. Demonstration of Drone were done by Ms. Kiran Walia, and Mr. Gaurav Kumar.

The workshop included sessions on the introduction to Unmanned Aerial Systems (UAS), drone components, assembly and disassembly, regulations, mission planning, sensor introduction, flight controllers, PID controllers, and practical drone flying and simulation exercises. Each day featured a mix of lectures, hands-on activities, and breaks, culminating in an assessment test and valedictory session on the final day.

The objective of the workshop was to provide participants with comprehensive knowledge and practical skills in the field of drone technology. It aims to cover the fundamental aspects of Unmanned Aerial Systems (UAS), including their components, assembly, disassembly, and applications. Additionally, the workshop will address regulatory guidelines, mission planning, sensor technology, flight controllers, and the principles of drone flight dynamics. By the end of the workshop, participants should be proficient in drone assembly, operation, and understanding the security challenges associated with drones. The hands-on approach ensures that attendees gain real-world experience in drone technology and its various applications. A total of 97 students from different branches participated in the workshop.





International Conference on Securing Next-Generation Systems Using Future Artificial Intelligence Technologies

August 23, 2024



The Department of Computer Science and Engineering, in collaboration with DRDO, Delhi, and publication partners CEUR workshop proceedings and Intelligent Decision Technologies Journal, organized an International Conference "Securing Next-Generation Systems Using Future Artificial Intelligence Technologies" on August 23, 2024 and August 24, 2024 in hybrid mode.

The conference inaugurated with the blessings of Dr. Nand Kishore Garg, Founder and Chief Advisor MATES, Shri Vineet Kumar Lohia Ji, Chairman MATES, Shree SP Agarwal ji, Executive Chairman MATES, Prof. J.V. Desai, Director General MAIT, Prof. Neelam Sharma, Director MAIT, Prof. S.S. Deswal, Dean MAIT, Prof. Sachin Gupta, Dean (R&I) MAIT, Prof. George A. Tsihrintzis, Department of Informatics · University of Piraeus, Conference Chair, Dr. Narendra Kumar Arya, Director (ER & IPR), DRDO and Prof. Namita Gupta, General Chair, Head CSE Department, MAIT. It was attended by more than 115 faculty members and students.

Eminent professors delivered technical sessions beginning with keynote speaker Prof. Vivek Bohara Chair, IEEE ComSoc Delhi Chapter, IIT-Delhi, elaborated on how Li-Fi technology can be used as a supplement to Wi-Fi and 5G technology. Prof. B.K. Panigrahi, Founder Head of Centre for Automotive Research and Tribology (CART) at IIT Delhi, discussed revolutionization of the Indian Power Sector using Artificial Intelligence and Machine Learning. Prof. Milan Tuba from Singidunum University, Vice Rector for International Relations, Serbia, enlightened about the application of AI technologies on digital images.





There were 230 full-length papers submitted, with the majority of the contributions being in the areas of theory, computer simulation-based research, and lab-scale experimentation. After a rigorous two-stage review and editing procedure, total 19 papers were selected out of which 6 of these submissions were published in a special part of the Intelligent Decision Technologies Journal (indexed by both Scopus and ESCI), and 13 of the submitted papers were included in the CEUR workshop proceedings (indexed by Scopus).

The two-day Conference concluded with a Vote of Thanks by Dr. Deepak Gupta, Conference Chair, SNSFAIT-2024. The conference offered participants a unique opportunity to gain knowledge about inclusion of Artificial Intelligence in sustainable growth and development.

Orientation program of CSE Third Semester Students

Your paragraph text

August 29, 2024



An orientation program, held on August 29th, 2024, in Lab: 145/146, Block 1, welcomed third-semester undergraduate students of the Computer Science and Engineering Department at Maharaja Agrasen Institute of Technology, Delhi. The event aimed to familiarize students with the department's vibrant culture and inspire them to actively participate in research, innovation, and various technical events. Prof. Namita Gupta, the Head of the Department, delivered an inspiring speech, emphasizing

the importance of critical thinking, punctuality, and active participation in departmental activities like Hackathons. Faculty counsellors and in-charges of technical societies provided valuable information about available resources and encouraged students to join societies aligned with their interests. The interactive session facilitated meaningful engagement between students and faculty, fostering a positive learning environment.

The orientation successfully motivated students to embark on their academic journey with enthusiasm, pursue research opportunities, and contribute to the technical community. By providing a comprehensive introduction to the department's culture and expectations, the event laid a strong foundation for the academic and professional growth of these budding engineers.

August 30, 2024



On August 30th, 2024, a second orientation program was conducted in Lab: 145/146, Block 1, to welcome the third-semester undergraduate students of the Computer Science and Engineering. Mirroring the successful event held the day prior, this orientation aimed to seamlessly integrate these students into the department's vibrant culture and inspire them to actively participate in research, innovation, and various technical events. Prof. Namita Gupta,

the Head of the Department, once again delivered an inspiring address, emphasizing the importance of critical thinking, punctuality, and proactive engagement in departmental activities.

Faculty counselors and in-charges of technical societies were also present, providing valuable insights into the available resources and encouraging students to explore societies aligned with their interests. A lively interactive session facilitated meaningful engagement between students and faculty, fostering a positive and inclusive learning environment. By offering a comprehensive introduction to the department's culture and expectations, this orientation program successfully empowered these budding engineers to embark on their academic journey with confidence and enthusiasm, ready to pursue research opportunities, contribute to the technical community, and achieve their full potential.



Pitch Your Idea Summit 2.0

19 – 20 September 2024

The Department of Computer Science and Engineering, Maharaja Agrasen Institute of Technology, Delhi, in association with IEEE Smart Cities, successfully hosted Pitch Your Idea Summit 2.0 on the 19th and 20th of September 2024. The event brought together over 80 students, with more than 20 innovative ideas being presented. The summit was organized by Prof. Namita Gupta, HOD, CSE, and Organising Secretary of the event. Dr. Neelu Nagpal, Vice Chair of IEEE Smart Cities, graced the occasion with an insightful address, highlighting the mission of IEEE Smart Cities and the immense benefits of becoming a member. The event featured a distinguished panel of investors including Mr. Tarachand Dhoundiyal (Founder, Shemade), Mr. Siddharth Sharma (Co-Founder, Techvanch & Codehub Nexus), Ms. Pia Sahni (Director-Head, AdagioVR), Mr. Sanjay Kumar Garg (CEO, Aryav-Ecofriendly Resources Pvt. Ltd.),

and Ms. Divya Rai (Senior Consultant, Sustainability SME, Capgemini). Their participation added immense value to the competition by providing critical feedback and potential investment opportunities to the students.

Winners: First Position: Team Name: Astra (Garv Baweja -35214802722, Sarthak Jain-36014802722)

Second Position: Team Name: Hack-n-Slash (Abir Thakur-02214802722, Subhashish Panda-03114802722)

Third Position: Team Name: Telnet (Parth Bajaj-07014802722, Ishan Sinha-3414802722)



MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering

ORGANISES

PITCH YOUR IDEA SUMMIT 2.0

19th-20th SEPTEMBER, 2024

ABOUT US

Department of CSE, MAIT in collaboration with IEEE Smart Cities is organising Pitch Your Idea Summit 2.0. All undergraduate and graduate students of MAIT are eligible to participate. Students will be shortlisted based on the originality of Idea Submission and will be given chance to pitch their idea in front of the Investors.

SCAN & JOIN

FOR MORE INFORMATION, PLEASE CONTACT:

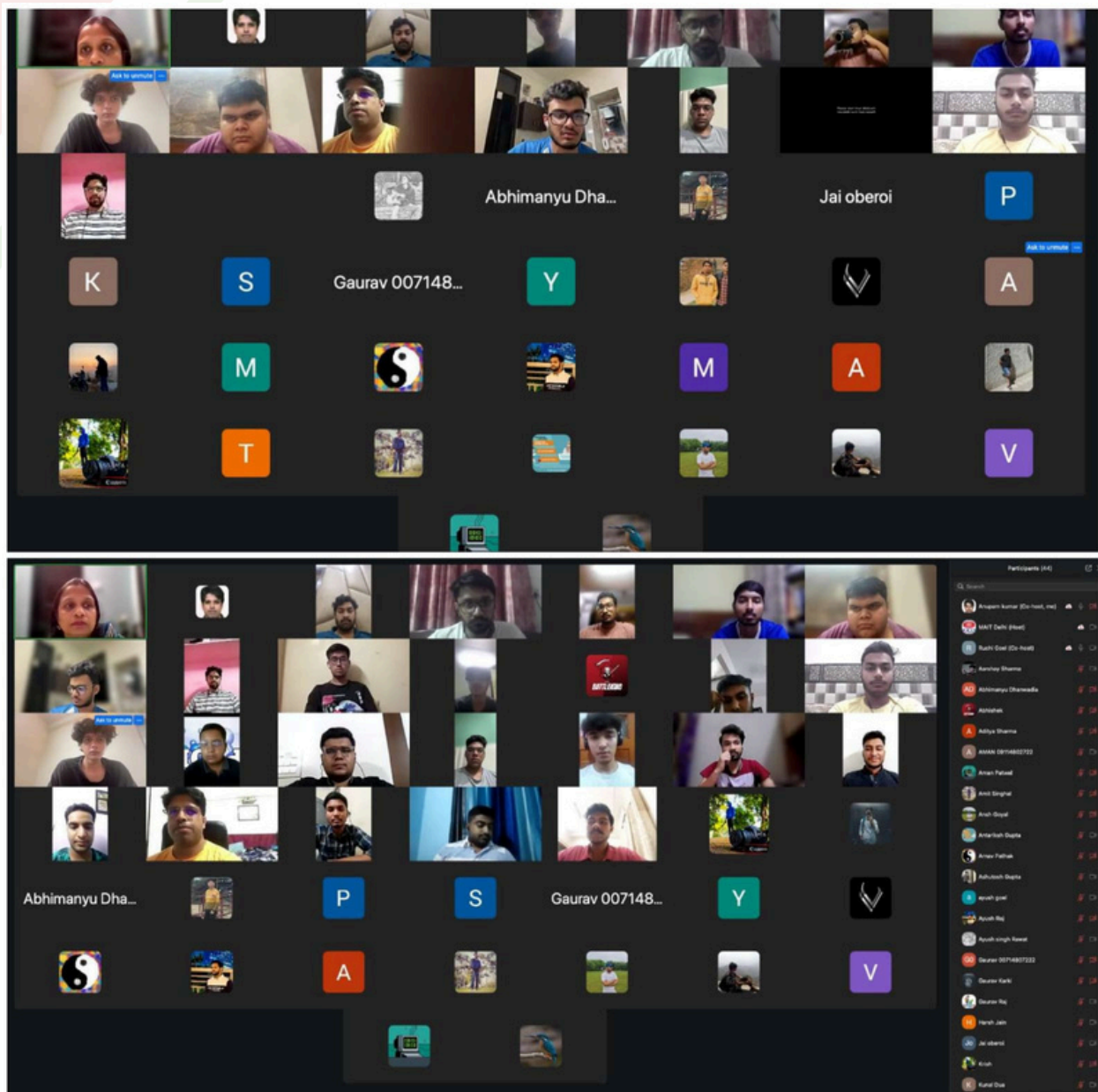
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ONLINE SESSION ON LATEX

September 26th, 2024

The Department of Computer Science and Engineering successfully organized an informative and interactive session on LaTeX for 3rd and final-year students. The event was held on September 26th, 2024, and was led by Assistant Professors Ms. Ruchi Goel and Mr. Anupam Kumar from the CSE department. The session aimed to provide students with a comprehensive introduction to LaTeX, a high-quality typesetting system, widely used for the creation of technical and scientific documentation. The session also covered LaTeX functionalities such as creating mathematical equations, formatting research papers according to journal guidelines. The main goal was to familiarize students with the importance and usage of LaTeX in academic writing, especially in drafting research papers, theses, and project reports. Students were encouraged to start using LaTeX for their ongoing research work, final-year projects, and report writing.



HackwithMAIT 5.0 – Three-day National-Level Hackathon

24– 26 October ,2024

HackwithMAIT 5.0, a three-day national-level hackathon was organized by the Department of Computer Science, Maharaja Agrasen Institute of Technology (MAIT) from 24th to 26th October 2024, concluded with the final round at Microsoft Gurgaon on 26th October 2024, where the top 10 teams presented their revolutionary ideas. Sponsored by renowned organizations, including Meril as the title sponsor and Kwikpic as the official photo-sharing partner, the event aimed to foster a culture of product innovation and problem-solving among the brightest young minds. HackwithMAIT 5.0 provided an ideal platform for students to showcase their talent and creativity, ensuring participants could effortlessly capture and share their moments during the event.

With more than 1500+ individual registrations, the event recorded the participation of over 350 teams and 1,221 students from 60+ institutions, including NITs, DTU, and IIITs. Out of the 350 registrations, 1,221 students from 60+ unique colleges across cities like Jalandhar, Bhilwara, Ghaziabad, Gurugram, Noida, Rohtak, and more were shortlisted to compete in the final rounds. The competition featured 245 teams from Delhi and 98 teams from



outside Delhi, including 94 teams for the Silver Jubilee Challenge and 116 teams participating in sponsored tracks, showcasing a diverse and dynamic range of talent. The event was officially inaugurated on 24th October 2024, with the gracious presence of the Founder and Chief Advisor of MATES, Dr. Nand Kishore Garg and blessings of Shri. Vineet Lohia, Chairman, MATES. The inauguration was also graced by the presence of Prof. (Dr.) Neelam Sharma (Director, MAIT), Prof. (Dr.) S. K. Garg (Director General, MAIMS), Prof. (Dr.) S. S. Deswal (Dean Academics, MAIT), and Prof. Namita Gupta (HOD, CSE). Their encouragement and support added to the enthusiasm of the participants.

A special tech talk was delivered by Mr. Abhishek Mishra, Director at Solas Industries, who shared his journey from an MBA at IIT-ISM Dhanbad to setting up India's first green-energy-powered facility for food processing. With experience in marketing and business development at CK Birla Group and insights from World Food India 2017, he enlightened students on industry trends and the future of sustainable food processing. Additionally, Mr. Pinaki Barat, Senior Marketing Manager at Meril, our esteemed title sponsor, delivered a

session on Meril's innovative contributions to healthcare robotics, adding valuable perspectives on cutting-edge technologies.



The organizing committee, led by Prof. Namita Gupta as the Program Chair, along with conveners Ms. Kavita Saxena, Dr. Farzil Kidwai, Dr. Moolchand Sharma, and Mr. Anupam Kumar, worked diligently to ensure the success of HackwithMAIT 5.0, held from 24th-26th October 2024. They were further supported by co-conveners Dr. Deepak Gupta, Ms. Deepti Gupta, and Ms. Zameer Fatima. The combined efforts of the faculty coordinators and dedicated student teams made the hackathon a truly memorable and impactful event, fostering innovation and collaboration among participants.



Participants presented innovative solutions across diverse sponsored and innovation tracks, such as Communication Systems, Web3, Healthcare, EdTech, Mobile and Wireless Networks, IoT, FinTech, Network Management and Monitoring, Quality of Service (QoS), and Open Innovation, competing for a prize pool exceeding ₹1,90,000. Among the standout projects, the solutions targeted challenges like crypto mining, blockchain development, and AI-powered educational tools. Sponsored tracks included prizes from Afreebug for Crypto Mining, Aptos, Polygon, ETHIndia (Ethereum), and Tezos India. The participants were judged by the esteemed judges and the mentors.

The final round of the Hackathon was at Microsoft on 26th October. The top ten teams presented their ideas at Microsoft Gurgaon in front of judges Mayank Jolly, Senior Consultant at Microsoft, and Dipak Pandey, Senior Consultant at Microsoft. The judges

mentioned that it was incredibly challenging to decide the winners due to the exceptional performance of all teams. They decided to award two special prizes worth of ₹3,100 to the two outstanding teams.

HackwithMAIT 5.0 provided an exceptional opportunity for students to collaborate, innovate, and showcase their talents on a national platform. The event concluded with an inspiring display of ingenuity and teamwork, setting a high standard for future editions.

Based on the five rounds of vigorous evaluation, the winners were declared:

First Prize

Team Name: Dinoco

College Name: VIPS

Prize Money: ₹15,000/-

Second Prize

Team Name: localhost:3000

College Name: MAIT

Prize Money: ₹11,000/-

Third Prize

Team Name: Byte Smith

College Name: NSUT

Prize Money: ₹9,000/-

Special Prize

Team Name: Hackfolio

College Name: MAIT

Prize Money: ₹3,100/-

Special Prize

Team Name: MARINE Cluster

College Name: GTBIT

Prize Money: ₹3,100/-



SOCIETY EVENTS



TechCom

Orientation of TechCom

TechCom, the official technical society of the CSE department, MAIT, held its orientation session for the students of batch 2023–2027 on Tuesday, August 13, 2024. The session took place from 12:50 PM to 1:30 PM in Lab No. 131 & 132, with over 75 students in attendance. The orientation began with an insightful overview of TechCom including its workings and the benefits of being part of core team by Ms. Himanshi and Mr. Saksham (student coordinators TechCom). They also gave a brief rundown of the events organized last year, highlighting the society's achievements and the opportunities it offers to its members. Mr. Ansh Goyal, President of TechCom, shared insightful thoughts in his speech. He shared his experiences from the previous year, emphasizing the personal and professional growth he gained through his involvement in the society. Third Year Team members also shared their experiences, offering a valuable perspective on the benefits of active participation in TechCom. The session concluded with a Q&A segment.

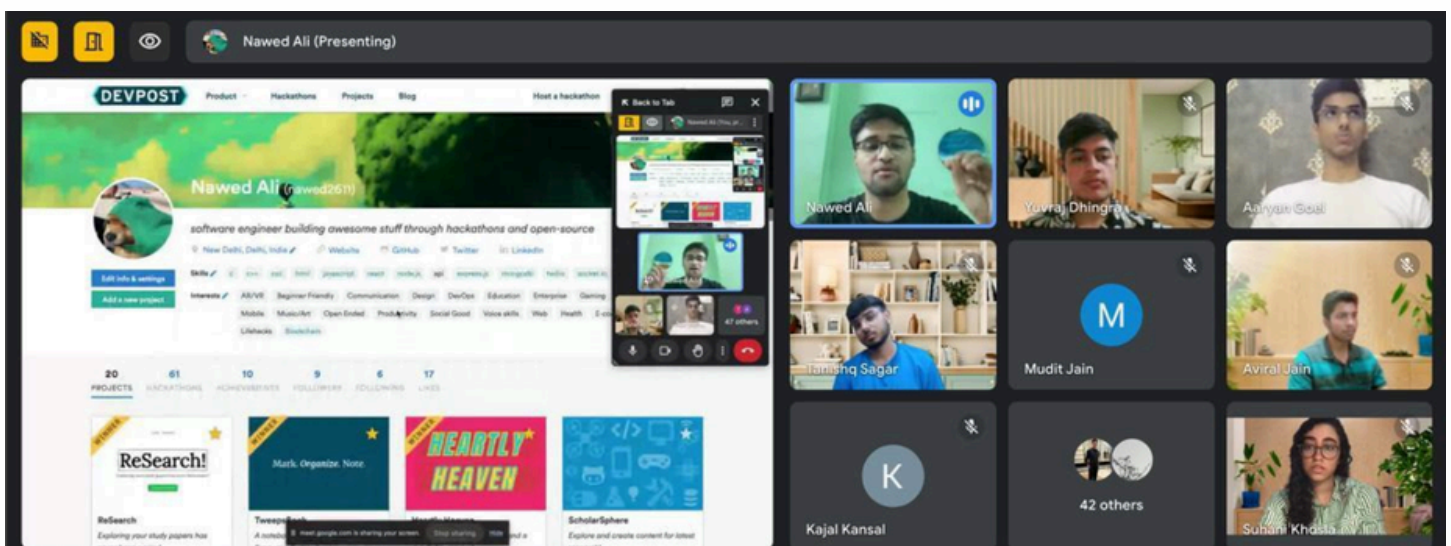
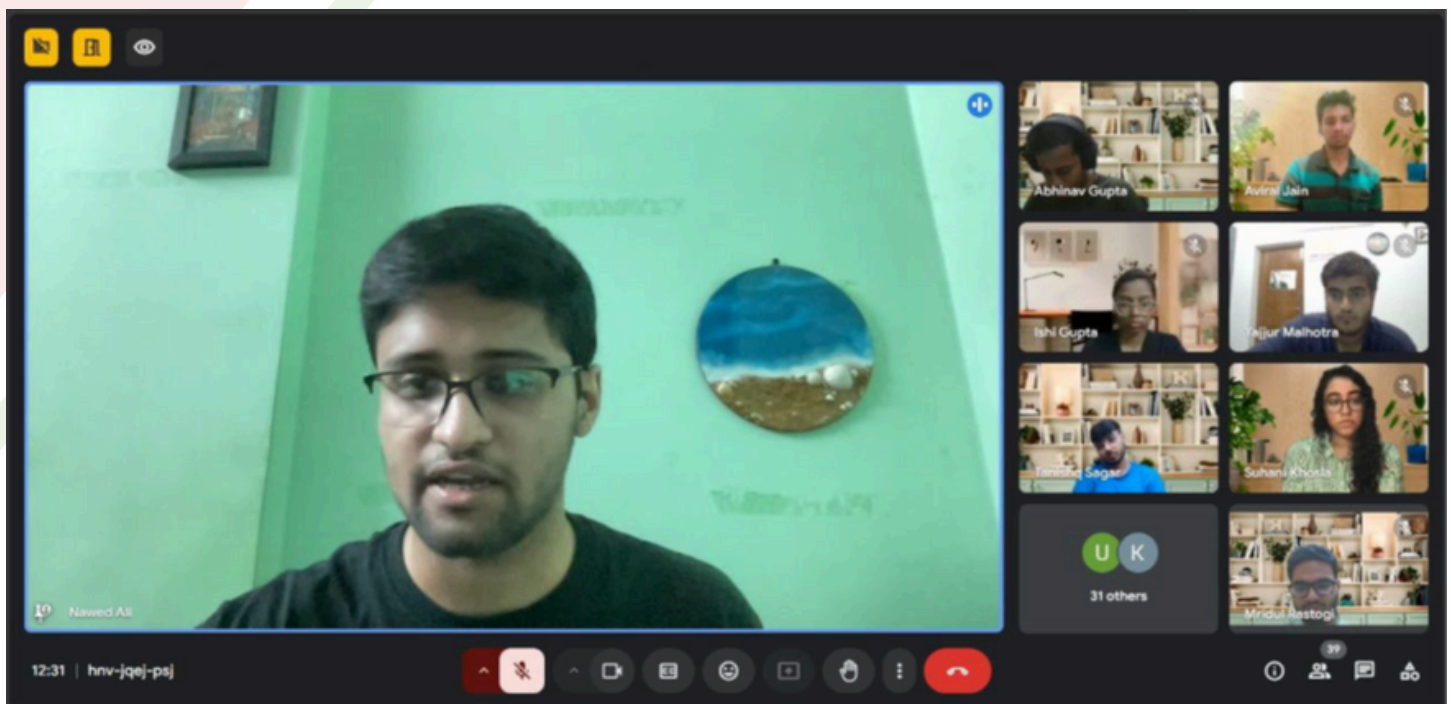
After the engaging and informative session, the interview form was rolled out, giving interested students the chance to apply for membership in TechCom. The orientation was a great success under the guidance of Prof. Namita Gupta(HOD, CSE), Ms. Kavita Saxena(Assistant Professor, CSE), Ms. Deepti Gupta(Assistant Professor, CSE) and Ms. Karuna Middha(Assistant Professor, CSE).



Navigating the Tech Industry: Insights & Guidance 2.0

TechCom, the technical society of the Department of Computer Science & Engineering conducted a senior junior interaction "Navigating the Tech Industry: Insights & Guidance 2.0" on 08th September 2024 in an online mode from 11:00 AM onwards. The event aimed to bridge the gap between juniors and seniors in the department, fostering a spirit of mentorship and guidance. The event speaker was Mr. Nawed Ali, an accomplished MAIT alumnus, and ex-promotional & social media in-charge, currently working as a Software Engineer at ListnrAI. His firsthand experiences, industry challenges, and practical advice were relatable to all the attendees and provided a comprehensive perspective on navigating the tech landscape.

During the session valuable insights on career development and the evolving trends in the industry were shared by the speaker. His experience transitioning from front-end technologies to DevOps, ML and backend was inspirational and insightful. Further, the discussion covered various aspects of a tech career, from academic foundations to real-world applications, and how they differ, offering students a clear roadmap.



Coding Blocks Workshop

TechCom, the technical society of the Department of Computer Science and Engineering, MAIT, and Tech Vision Alliance (TVA), the technical society of the Information Technology Engineering (ITE) Department, MAIT, organized a workshop titled "Roadmap to Top Product-Based Companies like MAANG" in collaboration with Coding Blocks on 10th September 2024, the event took place at the Main Auditorium, MAIT, from 1:00 PM onwards and drew a massive crowd of over 480+ students. Mr. Yajjur Malhotra and Ms. Himanshi Jain, TechCom, Student Coordinators (3rd year, CSE) anchored the workshop.

The workshop was led by the speaker Mr. Kartik Mathur, a founding member of Coding Blocks. Mr. Kartik Mathur provided invaluable insights into navigating career paths toward securing opportunities in top product-based companies, specifically MAANG (Meta, Amazon, Apple, Netflix, and Google). He also emphasized the importance of staying up to date with industry trends, participating in coding challenges, and networking effectively. The session delivered practical and actionable guidance for students to break into these competitive fields.

In addition to the workshop, an engaging quiz was conducted, where students tested their knowledge on the topics discussed. The quiz saw enthusiastic participation, and the top three winners were awarded exciting goodies, adding an element of fun and competition to the event.

MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CSE AND ITE
TechCom (CSE) & TVA (ITE)
in collaboration with
CODING BLOCKS

Society Heads

- Ansh Goyal, CSE, 4th Year (President, TechCom)
- Sarthak Mittal, CSE, 4th Year (Vice President, TechCom)
- Yagik Goel, ITE, 3rd Year (President, TVA)

Presents
WORKSHOP
On
"Roadmap to top Product Based Companies like MAANG"

Tuesday, 10 September
1:00 PM
Main Auditorium MAIT

SPEAKER
Kartik Mathur
(Founding Member and Academics Head)

Head of the Departments

- Prof. Namita Gupta
CSE, Department
- Prof. Amita Goel
ITE, Department

Faculty Coordinators

- Ms. Kavita Saxena
(TechCom)
- Ms. Deepti Gupta
(TechCom)
- Ms. Karuna Middha
(TechCom)
- Mr. Varun Goel
(TVA)

Graphika 2.0

TechCom, the official technical society of the CSE department, MAIT, in collaboration with Afreebug, Coding Blocks, the Microsoft Azure Developer Community and Reskilli, proudly hosted Graphika 2.0, an online poster and video-making competition, on 22nd September 2024, from 11:00 AM to 2:00 PM. The event offered a unique platform for students to showcase their creativity and innovative thinking. This year, Graphika 2.0 saw an overwhelming response, with 100+ participants registering for the event and more than 40 participants. Students showcased their talent under the following theme for Video: Chasing Shadows of Self, The Human Algorithm, The fractured Realities and for poster making: Poster Theme: Digital Dystopia, Stoicism and Echoes of Forgotten Voices. The esteemed judges for the event were Mr. Amit Chopra, Senior Manager, Natwest Digital Services, Dr. Amit Saxena, Assistant Professor, ECE, MAIT, Dr. Farzil Kidwai, Assistant Professor, CSE, MAIT, Mr. Kartik Raj, Ex- Graphics Head, TechCom and Ms. Manya, Graphic Head, TechCom. After the tough evaluation done by the judges the results were declared and the prize distribution ceremony was graced by Prof.(Dr.) Namita Gupta, HOD, CSE, Dr. Farzil Kidwai, Ms. Deepti Gupta and Ms. Karuna Middha.

Winner's details

POSTER MAKING:

1st prize – Mohit (10514803123 IT) Price amount : ₹1000

2nd prize – Shashi (07714812723 CST)

Price details: goodies from Microsoft and coding blocks

Popular Choice Award – Yash (14814802723 CSE I)

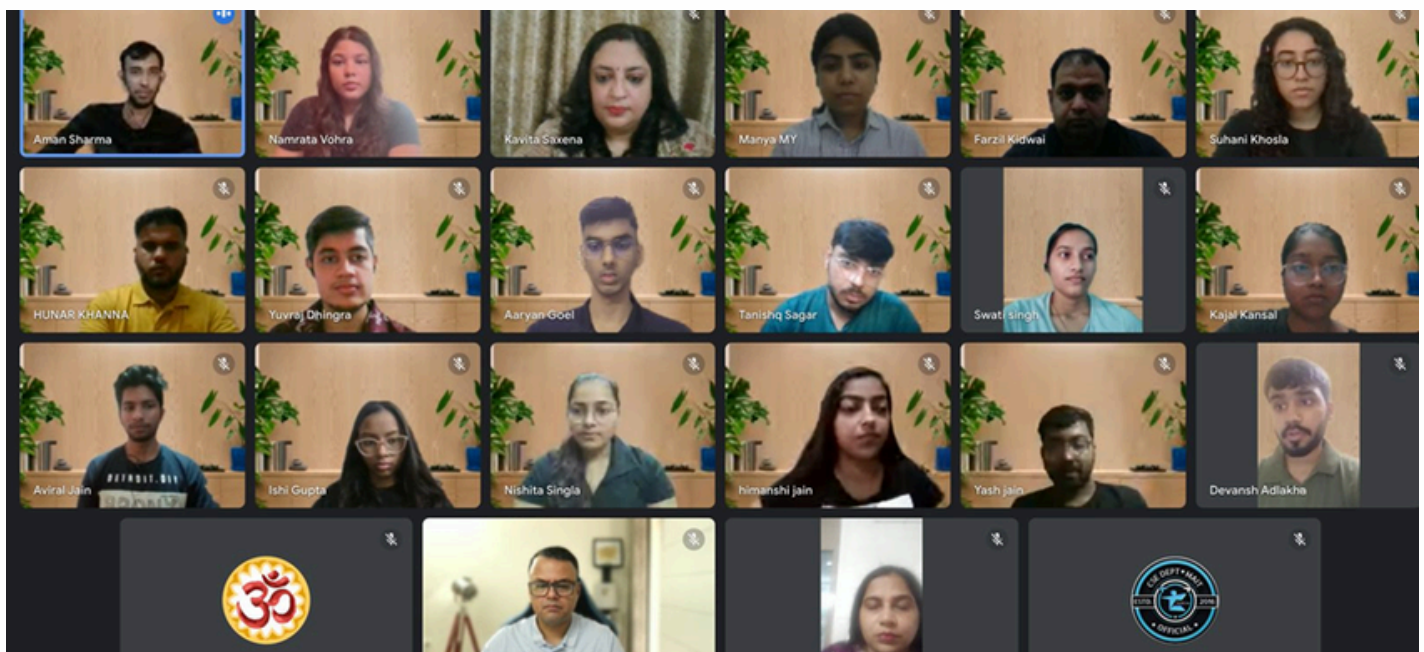
VIDEO MAKING:

1st prize – Ruchir (04114811123 ME) Price amount: ₹1000

2nd prize – Pranjal Chopra (35514802723 CSE I)

Price details: goodies from Microsoft and coding blocks

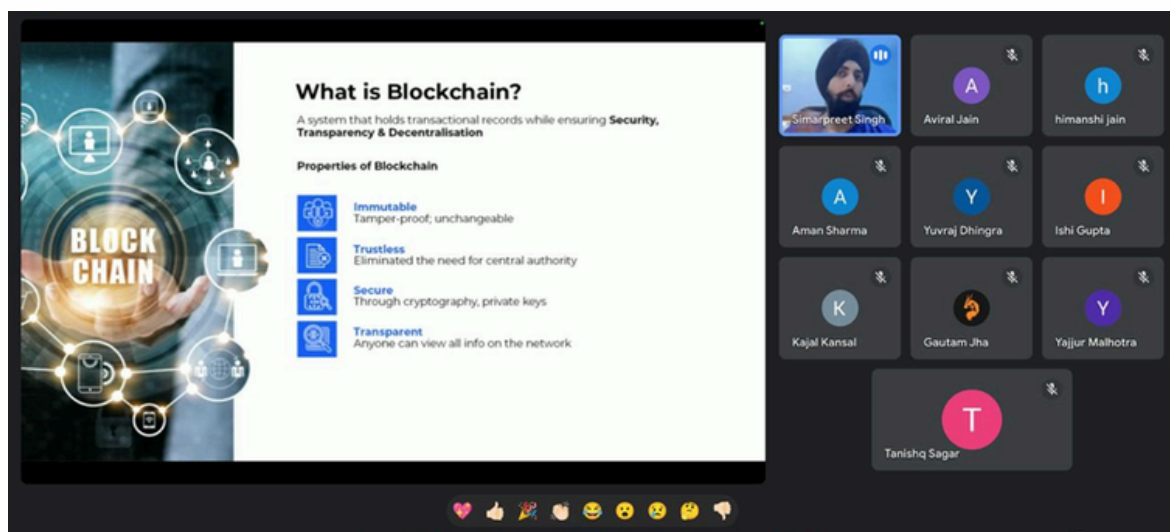
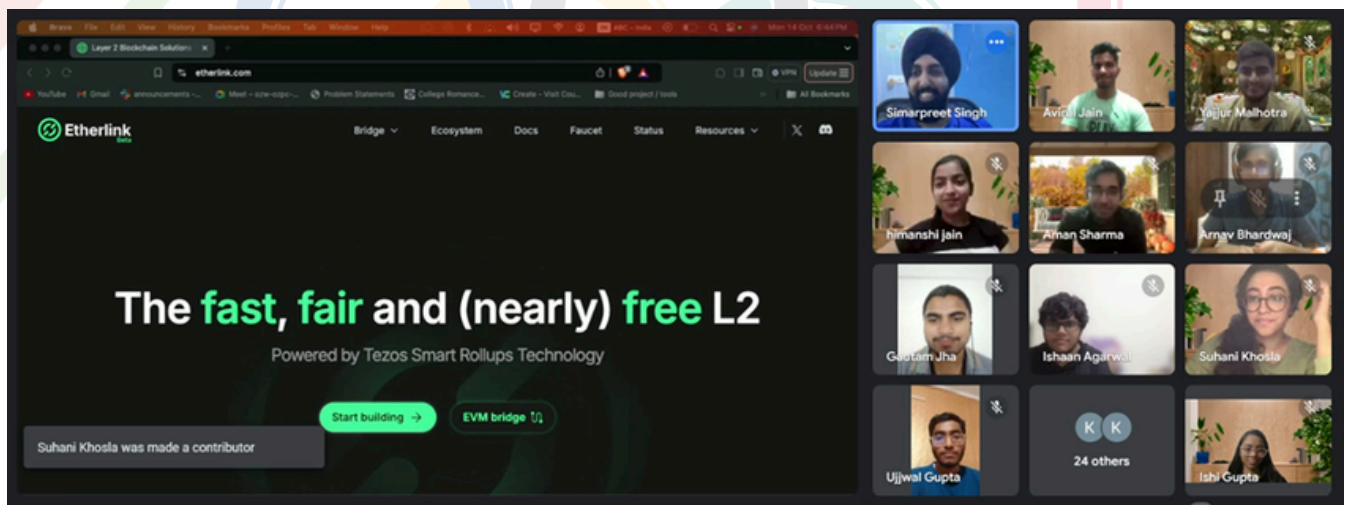
Popular Choice Award – Tanuj Kumar (11814812723 CST)



Workshop on Etherlink

TechCom, the official technical society of the Computer Science & Engineering Department, MAIT, organized an insightful online workshop titled "Etherlink" in collaboration with Tezos India on 14 October 2024 at 5:30 PM. With more than 60 participants, the event was a great success. Mr. Simarpreet Singh from Tejos was the speaker for the workshop. He covered essential topics such as cryptographic hash functions, hash addresses, block numbers, nonce numbers, and the overall workings of blockchain technology. He provided a detailed explanation of Etherlink, guiding participants on how to successfully deploy on the platform and explaining its significance within the broader blockchain ecosystem. He shared real-world examples of blockchain applications across industries such as finance, competitive examinations like GATE, and supply chain management. This not only showcased the versatility of blockchain but also emphasized its growing impact on modern-day technology.

The event was a great success under the guidance of Prof. Namita Gupta (HOD, CSE) and faculty co-ordinators Ms. Kavita Saxena (Assistant Professor, CSE), Ms. Deepti Gupta (Assistant Professor, CSE) and Ms. Karuna Middha (Assistant Professor, CSE). TechCom continues to foster learning and innovation through events like these, empowering students with cutting-edge knowledge in the tech domain.



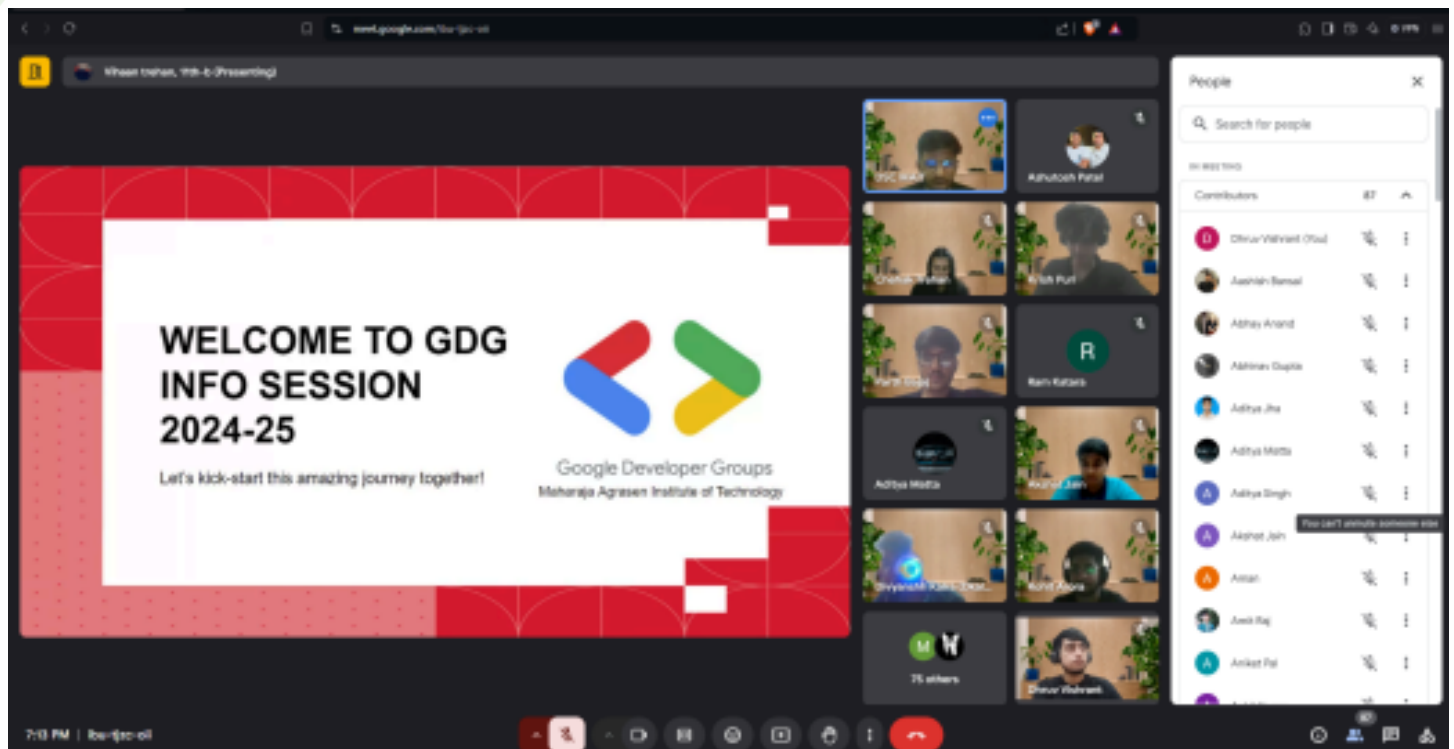
Information Session

The Online Information session about the core team and Google GenAI Study Jam was hosted by GDG MAIT on September 29, 2024, was an enlightening and engaging experience. The event aimed to share comprehensive knowledge about GenAI, emphasising its diverse applications and significant role in contemporary technology. Through interactive discussions and presentations, participants gained practical insights, fostering a deeper understanding of the subject. The event, crafted to be informative and interactive, effectively communicated the transformative possibilities of GenAI within the ever-evolving technological environment of today.

Highlights of the event:

- **Prominent Speaker:** During the event, Rohit Goel conducted an engaging session, inspiring students to explore the intricacies of GenAI and understand its potential in today's world.
- **Significance of GenAI:** Delved into the realm of GenAI, uncovering its extensive potential and the crucial role it occupies in the modern digital landscape.
- **Orientation:** Introduced the talented core team and shared upcoming plans for the future with the audience.
- **Process of enrolling in the GenAI Study Jam:** The workshop provided a clear roadmap for enrolling in the upcoming GenAI Study Jam cohort.

Smooth Execution: The GDG members demonstrated exceptional dedication and professionalism. They executed their assigned tasks with precision, ensuring the event ran smoothly from start to finish.



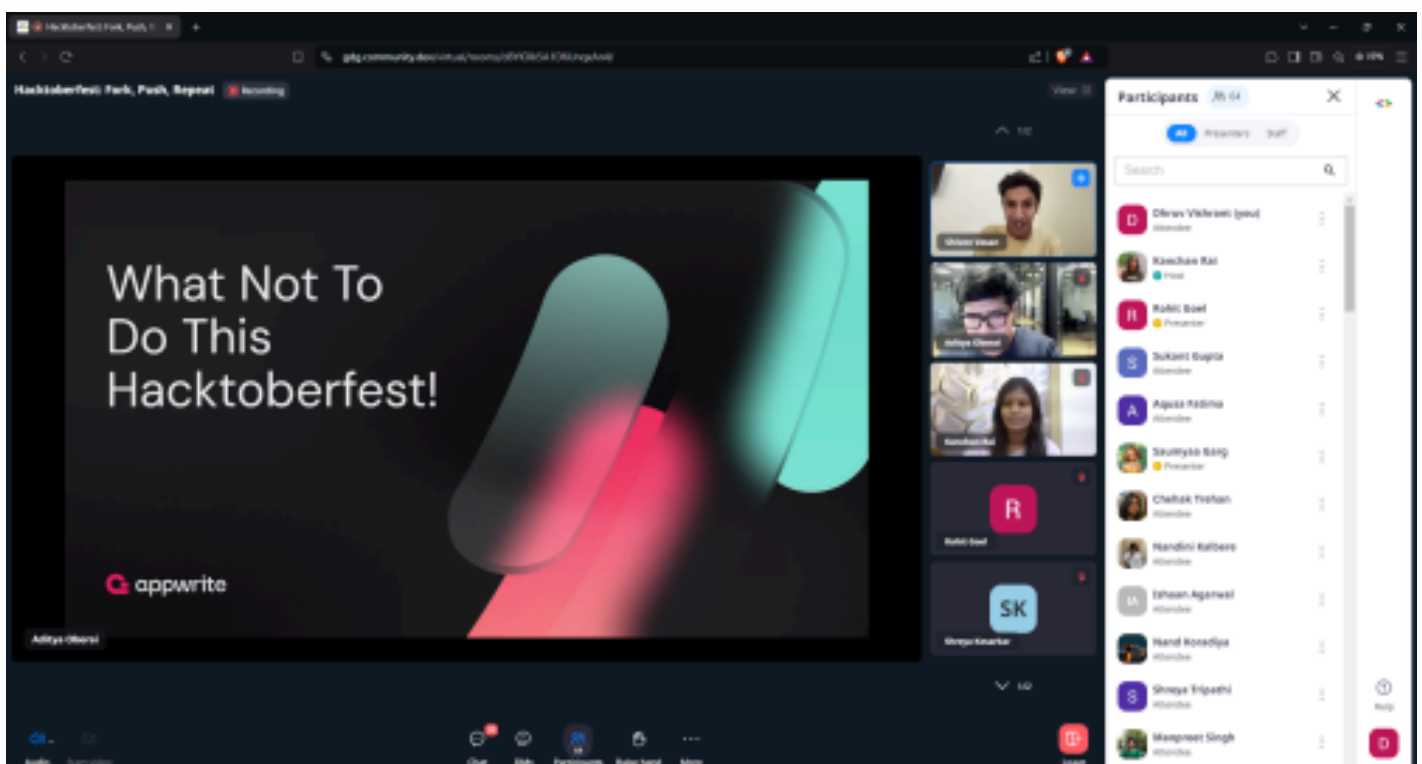
Hacktoberfest

The Hacktoberfest: Fork, Push, Repeat, held on October 14, 2024, was an engaging and insightful event. It aimed to provide a deep understanding of open source, showcasing its vast applications and significant role in modern technology. It was a collaborative event with five GDGs: GDG Amity University, GDG MAIT, GDG JMI, GDG Nirma University, and GDG UMIT.

Through interactive discussions and informative presentations, participants gained practical insights, broadening their knowledge of the subject. The event was thoughtfully organized to be both educational and engaging, effectively highlighting the transformative impact of open source in today's fast-evolving tech landscape.

Highlights of the event:

- **Prominent Speaker:** Aditya Oberai led an inspiring workshop at the event, encouraging students to explore the world of open source and understand its immense potential in shaping today's society.
- **Significance of Open Source:** The event delved into the realm of open source, uncovering its immense potential and emphasizing the critical role it plays in the modern digital landscape.
- **Hacktoberfest Contributions:** The event provided guidance on how to participate in Hacktoberfest, offering step-by-step instructions on contributing to open source projects and making the most of this annual celebration.
- **Insights on Hacktoberfest:** The workshop offered valuable insights and practical tips for participating in Hacktoberfest, helping attendees maximize their contributions and navigate with ease.
- **Smooth Execution:** The members of GDG exhibited remarkable dedication and professionalism, executing their assigned responsibilities with precision, thus ensuring the seamless operation of the event from beginning to end.



GEN AI Kick off Session

GEN AI Kick off Session

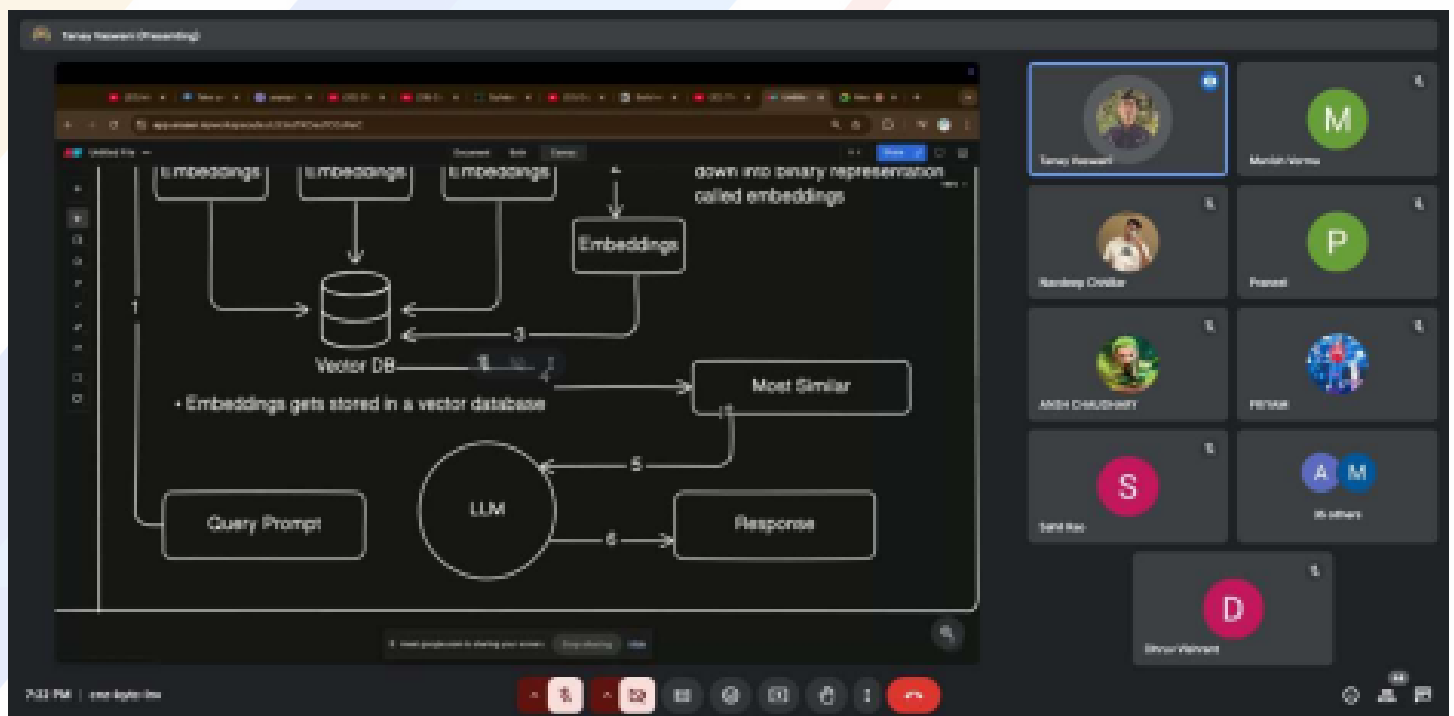
The GDG MAIT, in collaboration with Tech Vision Alliance, organized an event focused on Generative AI (Gen AI), highlighting its latest advancements and potential. The event introduced participants to how Gen AI autonomously generates content such as images, videos, and text, while also exploring its applications in industries like art, medicine, and finance. Ethical concerns, including AI bias and privacy, were addressed, along with insights from industry experts on real-world applications. The event featured interactive sessions, hands-on activities, and a panel discussion, providing attendees with networking opportunities and practical knowledge on how Gen AI is shaping future innovations. Swags and goodies were also distributed to last year's participants who completed the Gen AI cohort, recognizing their achievements. The event concluded with a call for students to join the GDG MAIT crew team to contribute to future initiatives..



Build With AI Session

The Build with AI session, hosted by GDG MAIT on November 9, 2024, was an immersive and enlightening experience focused on the transformative world of Artificial Intelligence. Designed to deepen participants' understanding of AI, the event offered insights into cutting-edge AI technologies, highlighting their vast applications and impact on modern technology.

With expert speakers Tanay Vaswani, Pradhuman Gautam, and Chayan Khetan, the session featured interactive discussions and live demonstrations, providing attendees with practical knowledge and hands-on experience. Thoughtfully curated to be both informative and engaging, Build with AI successfully fostered a community of AI enthusiasts eager to explore the future of technology.



Info Session on Google Solution Challenge 2025

The online session, part of the Tech Winter Break Series, introduced participants to the Google Solution Challenge 2025 and provided insights into building impactful solutions around the United Nations' 17 Sustainable Development Goals (SDGs). The session was conducted by Shubham Pitekar, whose journey with SpoonShare as a Google Solution Challenge 2023 finalist inspired attendees to think innovatively and aim high.

The event highlighted the challenge's structure, key milestones, and tips for success, focusing on leveraging Google technologies like Firebase, Flutter, and Google Maps API. Participants also gained practical knowledge about forming effective teams, identifying impactful problem statements, and using recommended tools to build scalable solutions.

The screenshot shows the Google for Developers page for the Solution Challenge. It features the 'The 17 Sustainable Development Goals of the United Nations' section, which includes a grid of icons representing the goals. The page also mentions the final demo day on June 27, 2024.

Building Progressive Web Apps with Firebase

Highlights of the Event:

► **Prominent Speaker:** Mr. Vrijraj Singh shared his expertise on Firebase, emphasizing its use as a unified backend-as-a-service platform for web, mobile, and game development.

► **Exploration of Firebase Services:**

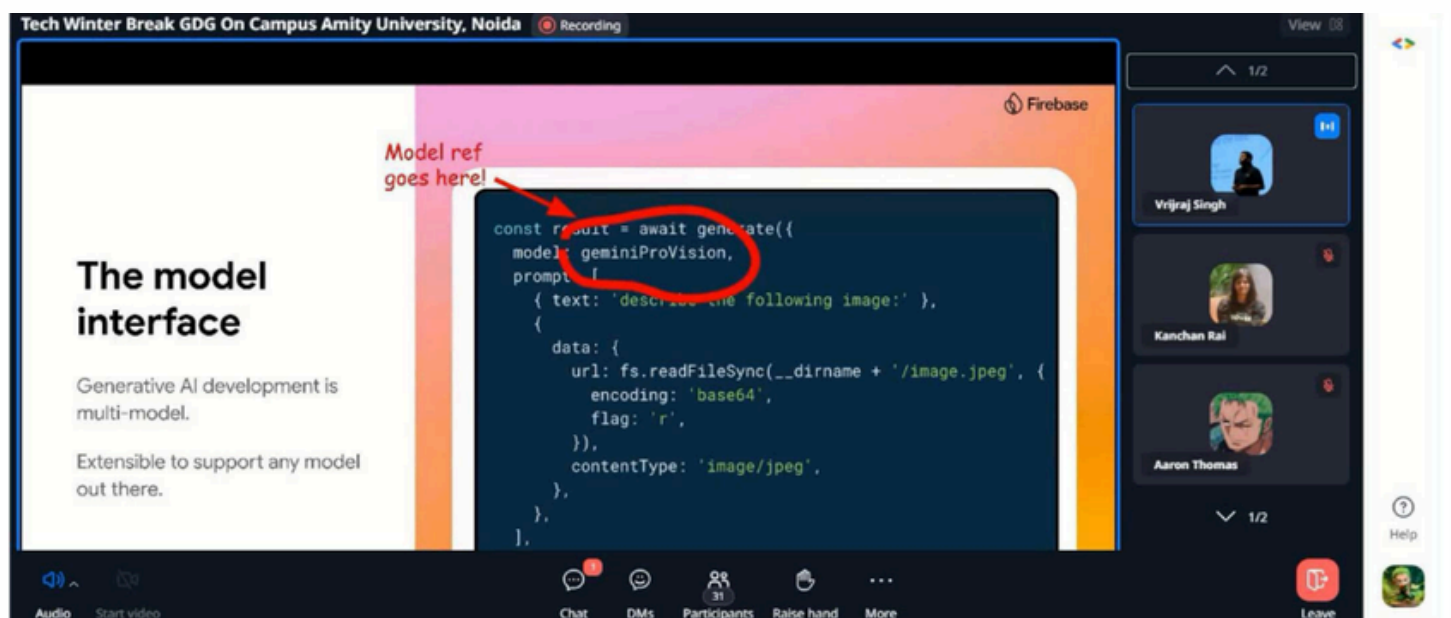
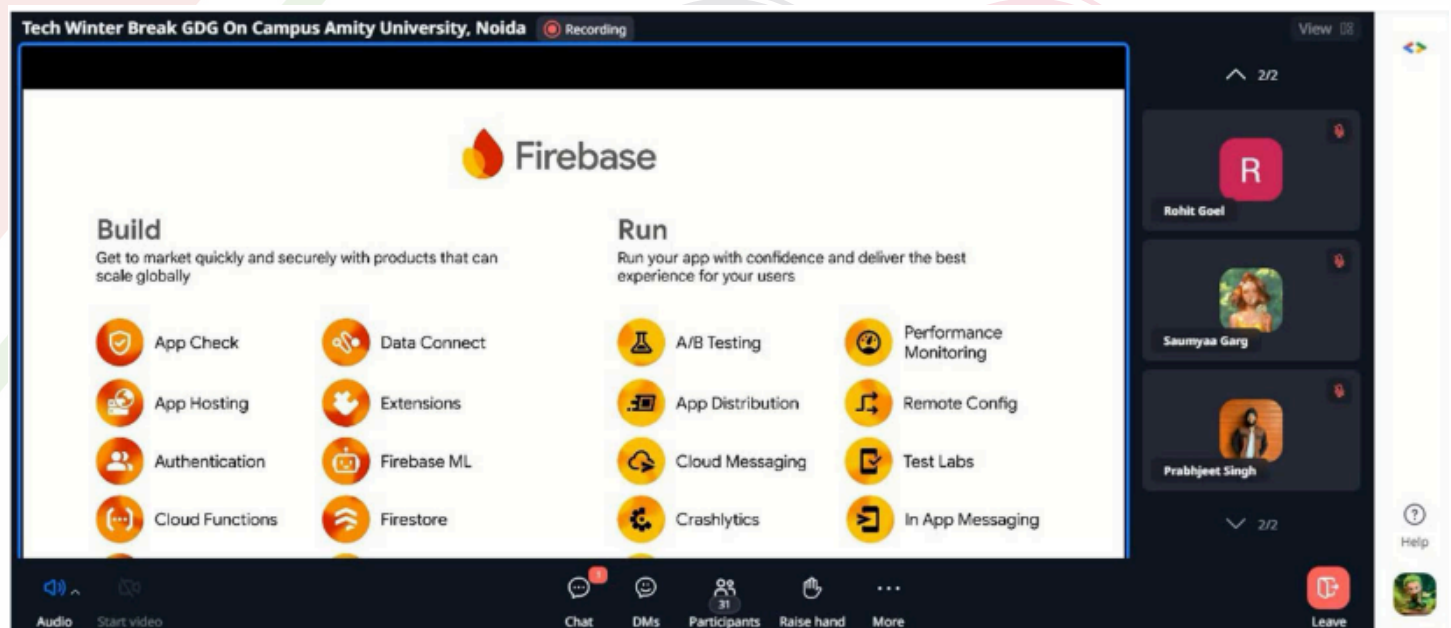
Building Applications: Firebase provides services like real-time databases, Cloud Firestore, hosting, and authentication to simplify app development.

Running and Monitoring Applications: Tools for app distribution, A/B testing, and crash analytics help ensure performance optimization and user engagement.

AI-Driven Enhancements: Integration with machine learning models, including Google AI Studio and Firebase extensions, allows developers to create intelligent, AI-enabled applications.

► **Live Demonstrations:** Attendees witnessed practical examples of Firebase's features, such as integrating authentication and cloud functions to enhance app functionality.

► **Student-Centric Advice:** Mr. Singh emphasized that Firebase's free tier is sufficient for college-level projects, hackathons, and capstone development.



Information Session

On 23rd September, IOSD conducted an orientation that began at 2:00 PM with two enthusiastic hosts, Simran Arora (Social Media Head) and Jayant Aggarwal (Graphics Head). They introduced the society with a captivating presentation and assessed students' IQ levels by posing thought-provoking questions. The students actively participated, and the winners received exciting goodies for their correct answers.

Before the main sessions, we had an insightful Q&A segment featuring four of our accomplished final-year members:

Arnav Gupta, who secured an internship at PayPal;

Jatin Bhatt, who worked at Infosys;

Jiya Verma, who worked in iON; and

Ashish Yadav, who successfully cleared GSoC.

They shared their journeys, offered valuable tips, and addressed queries from fellow students.

What made this orientation truly special were the esteemed guests:

Parikh Jain, the founder of ProPeers, ex-founding member at Coding Ninjas, and a former SDE at Amazon, shared his inspiring entrepreneurial journey and provided practical career guidance.

Shantanu Maheshwari, the founder of Bombay Shaving Company, one of India's biggest men's grooming brands, captivated the audience with his powerful story of building a successful business from scratch.

The event concluded around 4:30 PM, followed by a joyful photo session with our teams and registration for interested students to join the society.





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