



Club Report

Contents

A.		
	Members of the Club.....	3
	Faculty in-Charge.....	3
	Chairperson.....	3
	Vice-Chairperson.....	3
	Mentors and Event Heads.....	4
	Co-committee.....	4
B.	Year in Review	5
C.	Achievements	6
D.	Technical Blogs	9
E.	Resume and LinkedIn Session	13
F.	Research Projects	
	1. SparseFormer: Investigating the Emergence of Sparse Attention in Transformers.....	18
	2. Privacy-Preserving Multimodal Human Action Recognition using Graph Neural Networks and Transformers	18
	3. Lost in the Middle Problem: Mitigating Long-Context Failures in Large Language Models.....	19



4. Noise-Robust 2D-DPO: Enhancing Preference Optimization under Noisy Aspect-Level Annotations.....	19
5. Trap4Phish: Multi-Modal Deep Learning for Phishing Detection	20
G. Event – Nirmaan 2026.....	21



A. Members of the Club

Faculty in-Charge – Prof. Prachi Satam, Prof. Priyanca Gonsalves

Chairperson	
Nandini Nema	
Vice-Chairperson	
Krishna Naudiyal (Research and Development)	Rachit Chawda (Outreach)

Research Mentors • Mihik Chaudhari • Rohana Mahimkar • Mallank Gogri • Pranav Sonmale • Nachiket Jain • Sagar Harsora • Amit Upadhayay
Secretary • Nyasa Parikh • Sneh Srimankar
Technical Heads • Krishnakant Singh • Pranav Dharwadkar • Mihir Patil
Social Media Heads • Ibrahim Kothari • Pranay Kavthankar
Marketing Head • Parth Patil
Junior Research Mentors • Devansh Raulo • Mufiz Arbee • Raiyaan Patel



14/10/2025

DJ InIT.AI – Students' Club
(For the A.Y. 2025-26)

FACULTY MENTORS

Ms. Prachi Satam
Ms Priyanca Gonsalves

CHAIRPERSON

Nandini Nema
(60003230191-IT)

VICE-CHAIRPERSON
(OUTREACH)

Rachit Chawda
(60003230185-IT)

VICE-CHAIRPERSON
(RESEARCH & DEVELOPMENT)

Paril Rupani
(60003230279-IT)

TECHNICAL HEADS

Mihir Patil
(60003230173-IT)

Pranav Dharwadkar
(60003230200-IT)

Krishnakant Singh
(60003230100-IT)

MARKETING HEAD

Parth Patil
(60003230189-IT)

SECRETARY

Nyasa Parikh
(60003230136-IT)

Sneh Shrimankar
(60003240006-IT)

RESEARCH LEAD

Amit Upadhyay
(60003220253-IT)

Mallank Gogri
(60003220076-IT)

Nachiket Jain
(60003230198-IT)

Rohana Mahimkar
(60003230286-IT)

Krishna Naudiyal
(60003230241-IT)

Mihik Chaudhari
(60003230232-IT)

Pranav Sonmale
(60003230287-IT)

Sagar Harsora
(60003220074-IT)

Good luck and best wishes to everyone in the committee!

Dr. Hari Vasudevan
(Principal)



Research Mentees • Gaurang Thakkar • Ashmit Janjirkar • Rachit Kawediya • Piyush Tiwari • Jai Udeshi • Aryan Patil • Abhishek Pandey • Rushi Mehta • Niyati Desai • Atharva Bhargava • Vidit Gupta • Siddhesh Nadkarni • Bhavya Kothari • Yukta Chaudhari	Technical Mentees • Aman Gupta • Krish Mendpara • Mohammed Asif Shershahvadi • Zaid Ahmed • Jeet Gharat • Sarthak Savani
Social Media Co-committee • Aryan Vaghani • Diya Shah • Palak Shah • Vidhi Prajapati • Devendra Mote	Marketing Co-committee • Vansh Shah • Manan Bhayani • Shreyas Badalia • Dhruva Gupta



B. Year in Review

The academic year 2025–26 marked a significant milestone for DJ InIT.AI as the club expanded its impact across technical education, research, innovation, and community engagement. Guided by our vision of fostering AI-driven learning and research excellence, we successfully organized initiatives that empowered students to explore emerging technologies, develop practical skills, and contribute to meaningful projects.

This year, our efforts were centred around:

- **AI Lecture Series:** A series of technical lectures and hands-on assignments conducted for second-year students, aimed at strengthening their understanding of core Artificial Intelligence and Machine Learning concepts.
- **Technical Blogs Initiative:** Club members authored and published in-depth technical blogs on emerging topics such as Explainable AI (XAI), Quantum-Safe Cryptography, and Extreme Ultraviolet (EUV) Lithography, promoting technical awareness and knowledge sharing within the student community.
- **Research Program:** DJ InIT.AI continued its research-driven approach by mentoring students through multiple research projects spanning areas such as Transformers, Human Action Recognition, Large Language Models, Preference Optimization, and Cybersecurity. Students collaborated closely with mentors to develop problem statements, conduct literature reviews, and explore innovative solutions.
- **Resume and LinkedIn Optimization Session:** A dedicated professional development session was conducted to help students strengthen their resumes, build impactful LinkedIn profiles, and prepare effectively for internships and career opportunities.
- **Nirmaan 2026 – Technical IPD Project Competition:** The flagship event of the year, Nirmaan 2026 brought together over 200 students and 53 project teams to showcase innovative solutions across AI, Cybersecurity, IoT, Smart Infrastructure, and Healthcare domains. The competition provided a platform for students to demonstrate technical excellence, receive industry feedback, and transform ideas into impactful projects.

Through these initiatives, DJ InIT.AI strengthened its culture of innovation, research, and continuous learning while providing students with opportunities to develop technical expertise, professional skills, and industry readiness.

The following sections provide a detailed overview of the club's achievements, technical contributions, research initiatives, and major events conducted throughout the year.

C. Achievements

1. Yukta Chaudhari – Secured 1st Place in the NASA Space Apps Challenge 2025 (Local Round) and earned a nomination for Global Judging, demonstrating excellence in leveraging technology and innovation to address real-world challenges aligned with NASA's mission.
2. Yukta Chaudhari secured 1st Place in the AI/ML Domain at Technova Hackathon 2026, a 24-hour hackathon organized by Xavier's Institute of Engineering, Mahim on 17th–18th January 2026, and was awarded a cash prize of ₹8,000.



3. Aman Gupta secured 2nd Runner-Up at Nirvana Ideathon, organized by DJS IEEE and DJS GDG, for presenting an innovative solution that demonstrated strong problem-solving skills, creativity, and entrepreneurial thinking during the ideation competition.



4. Krishna Naudiyal and Nyasa Parikh secured 1st Position at Nirmaan 2026, the Technical IPD Project Competition organized by DJ InIT.AI.



5. Mihir Patil and Pranav Dharwadkar secured 3rd Position at Nirmaan 2026, the Technical IPD Project Competition organized by DJ InIT.AI.



6. Krishnakant Singh emerged as the AI/ML Domain Winner at DataHack 4.0, in March 2026, demonstrating exceptional expertise in machine learning and artificial intelligence by developing an innovative data-driven solution that stood out among competing teams.



7. Yukta Chaudhari secured 1st Runner-Up at HORIZON'26 Frontend Hackathon, organized by Shri Bhagubai Mafatlal Polytechnic and Degree Engineering College on 25th April 2026.





D. Technical Blogs

1. Technical Blog 1: Explainable AI (XAI)

Blog Title: Explainable AI (XAI): Making AI Less Mysterious

Date: 17th January 2026

Written by: Aryan Vaghani

Lead Authors: Ibrahim Kothari, Pranay Kavthankar

Blog Link: <https://www.instagram.com/p/DTnRutrjEB6>

Description:

This technical blog explored the emerging field of Explainable Artificial Intelligence (XAI), a branch of AI focused on making machine learning models more transparent, interpretable, and trustworthy. The article addressed the growing concern surrounding the “black box” nature of modern AI systems, where complex models generate predictions without providing clear reasoning behind their decisions. Through relatable examples and simplified explanations, the blog demonstrated how XAI helps users understand the logic behind AI-generated outcomes.

The blog highlighted the significance of explainability in building trust, reducing bias, and ensuring compliance with evolving regulatory frameworks such as the EU AI Act. Readers were introduced to the concept of opening the AI “black box” through techniques that allow humans to inspect and interpret model behavior, making AI systems more accountable and reliable in critical decision-making environments.

To showcase the real-world impact of XAI, the article examined its applications across various industries, including healthcare, finance, cybersecurity, transportation, and manufacturing. It discussed how explainable models can improve diagnostic accuracy, strengthen fraud detection systems, enhance threat analysis, and support informed decision-making by providing clear insights into model predictions. Practical examples illustrated how explainability empowers end users to understand when and why AI systems can be trusted.

The blog also featured case studies of organizations leveraging XAI technologies, including implementations by major technology and financial institutions. By examining tools such as model interpretability frameworks and bias detection systems, readers gained insight into how industry leaders are integrating transparency into AI-powered products and services.

Concluding with future trends and market insights, the article emphasized the growing importance of XAI as AI adoption continues to accelerate worldwide. It highlighted the increasing demand for transparent and ethical AI systems and discussed how explainability is expected to become a fundamental component of next-generation AI solutions. The blog encouraged readers to explore XAI tools and methodologies, reinforcing the idea that transparency will play a vital role in shaping the future of responsible artificial intelligence.



2. Technical Blog 2: Quantum cryptography

Blog Title: Quantum-Safe Cryptography: Securing the Future Against Quantum Threats

Date: 15th February 2026

Written by: Diya Shah and Palak Shah

Lead Authors: Ibrahim Kothari, Pranay Kavthankar

Blog Link: <https://www.instagram.com/p/DUxZUNXjGSm>

Description:

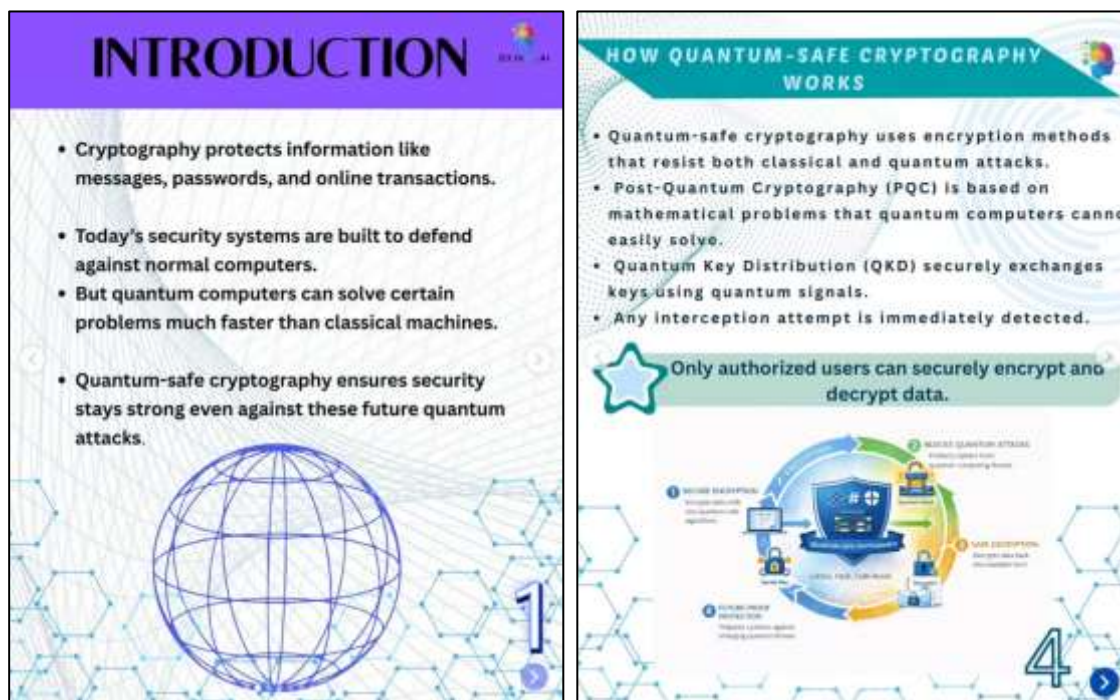
This technical blog explored the emerging field of Quantum-Safe Cryptography, a next-generation approach to cybersecurity designed to protect digital systems from the unprecedented computational power of quantum computers. The article introduced the fundamentals of cryptography and explained how modern encryption algorithms such as RSA, ECC, and Diffie-Hellman currently secure online communications, financial transactions, and sensitive data worldwide.

The blog highlighted how quantum computers, through concepts such as superposition and entanglement, could potentially break many of today's encryption methods. Readers were introduced to the concept of "harvest now, decrypt later" attacks, emphasizing the need to prepare for future quantum threats before they become a reality. To address these challenges, the article discussed Quantum-Safe Cryptography techniques, including Post-Quantum

Cryptography (PQC) and Quantum Key Distribution (QKD), which are designed to remain secure against both classical and quantum attacks.

Real-world applications of quantum-safe security across sectors such as finance, healthcare, government, and cloud computing were also explored. The blog highlighted ongoing industry efforts by organizations like Microsoft, IBM, and Google to integrate quantum-resistant security measures into their products and services, showcasing the growing importance of future-ready cybersecurity solutions.

The blog concluded by emphasizing that quantum-safe cryptography is a proactive investment in digital security. As quantum computing continues to evolve, adopting quantum-resistant technologies today will be essential to safeguarding sensitive information and ensuring a secure digital future.



3. Technical Blog 3: Extreme Ultraviolet (EUV) Lithography

Blog Title: The Sovereign of Sub-Atomic Precision: Extreme Ultraviolet (EUV) Lithography

Date: 15th February 2026

Written by: Aryan Vaghani

Lead Authors: Ibrahim Kothari, Pranay Kavthankar

Blog Link: <https://www.instagram.com/p/DVNviwxDH06>



Description:

This technical blog explored the revolutionary technology of Extreme Ultraviolet (EUV) Lithography, the advanced manufacturing process responsible for enabling the production of modern semiconductor chips. The article introduced EUV as one of the most significant breakthroughs in chip fabrication, explaining how it uses an extremely short wavelength of 13.5 nanometers to create highly detailed circuit patterns that are impossible to achieve using traditional lithography techniques.

The blog provided readers with insights into the complex engineering behind EUV systems, including the generation of EUV light through high-energy laser interactions with molten tin droplets in a high-vacuum environment. It highlighted the remarkable precision required throughout the process and explained how innovations in optics, plasma physics, and materials science have made large-scale EUV manufacturing possible.

The article also examined the strategic importance of EUV technology within the global semiconductor industry. Readers learned about ASML's unique position as the sole manufacturer of EUV lithography systems and the technological, financial, and intellectual property barriers that have contributed to its market dominance. The blog further discussed how leading technology companies such as Apple, NVIDIA, Qualcomm, Google, and TSMC rely on EUV-enabled manufacturing to develop cutting-edge processors powering smartphones, cloud infrastructure, artificial intelligence systems, and high-performance computing applications.

Concluding with future developments such as High-NA and Hyper-NA EUV platforms, the blog highlighted how continued advancements in lithography will drive the next generation of semiconductor innovation. It emphasized that EUV lithography remains a critical enabler of Moore's Law, supporting the increasing computational demands of emerging technologies and shaping the future of the digital world.



DJ InIT. AI
Deriving Intelligence for Tomorrow



THE SOVEREIGN OF SUB-ATOMIC PRECISION

→ EUV

EXTREME ULTRAVIOLET LITHOGRAPHY



The Future: High-NA & Hyper-NA

As we look beyond the current limits of semiconductor manufacturing, the industry is gearing up for the next-evolutionary leaps in EUV. This transition from upcoming High-NA systems to theoretical Hyper-NA platforms is critical.

Feature	High-NA EUV (EUV Platform)	Hyper-NA & Beyond EUV (B-EUV)
Optics Design	0.55	0.75 or higher
Plasma Source	8 nm	Sub-8 nm
Timeline/Adoption	13.5 nm (Standard EUV)	Potentially shorter (6.6 nm or 1 nm)
Optics Design	Anamorphic (shrinks pattern 4x in one direction, 8x in the other)	Theoretical (requires an entirely new set of materials)
Plasma Source	Tin	Potentially Lithium ions
Timeline/Adoption	Late 2023 (first tool delivery); 2025-2026 (volume production)	Targeted release around 2033



E. Resume and LinkedIn Session

Date: 9th April 2026

Time: 11 AM onwards

Class: SY BTech I.T.

Attendance: 26 students

Topic: Resume Building & LinkedIn Profile Optimization

Conducted by: Nandini Nema

Description:

A comprehensive session on Resume Building and LinkedIn Profile Optimization was conducted by Nandini Nema for SY BTech I.T. students. The session was designed to help students develop a strong professional presence and prepare effectively for internships, placements, and future career opportunities.

The session focused on the key elements of creating an impactful resume, including structuring content, highlighting technical skills and projects, showcasing achievements, and avoiding common mistakes that often reduce a resume's effectiveness. Students were provided with practical insights into what recruiters look for and how to tailor their resumes for different opportunities.

In addition, attendees were guided through the process of optimizing their LinkedIn profiles to build a strong online professional identity. The discussion covered profile headlines, summaries, experience sections, project showcases, networking strategies, and methods to increase visibility among recruiters and industry professionals.

Through real-world examples and interactive discussions, students gained a better understanding of personal branding and professional communication. The session also featured a Q&A segment, where participants received personalized advice on resume reviews, profile enhancement, career planning, and networking best practices.

The session also emphasized the importance of maintaining consistency across professional platforms and continuously updating one's profile with new skills, certifications, projects, and accomplishments. Students were encouraged to build a strong portfolio of work, actively engage with professional communities, and leverage networking opportunities to stay informed about industry trends. The discussion highlighted how a well-crafted resume and an optimized LinkedIn profile can significantly enhance visibility, credibility, and access to career opportunities in both academia and industry.

The event concluded with students gaining valuable knowledge and actionable strategies to strengthen their professional profiles, enabling them to confidently present their skills, experiences, and achievements in both academic and professional settings.



Resume session

Sections in a Resume

- Order of sections depends on what you want to emphasise on.
- Sections include:



Attendees:

Sr. No	Name	SAP ID	Email ID	Year
1	Gaurang Thakkar	60003240253	gauraangsthakkar@gmail.com	SY
2	Ashmit Janjirkar	60003240192	ashmit.janjirkar@gmail.com	SY
3	Rachit Kawediya	60003240179	rachitkawediya080606@gmail.com	SY
4	Piyush Tiwari	60003240185	piyushtiwari057@gamil.com	SY
5	Jai Udeshi	60003240026	jaiudeshi05@gmail.com	SY
6	Aryan Patil	60003240293	aryanvp27@gmail.com	SY
7	Abhishek Pandey	60003240191	abhshkp@gmail.com	SY
8	Rushi Mehta	60003240033	rushi0671@gmail.com	SY
9	Niyati Desai	60003240257	niyatimanishdesai1@gmail.com	SY
10	Atharva Bhargava	60003240221	bhargavaatharva.10@gmail.com	SY
11	Vidit Gupta	60003240117	viditanupgupta@gmail.com	SY
12	Siddhesh Nadkarni	60003240195	nadkarnisiddhesh2903@gmail.com	SY
13	Bhavya Kothari	60003240230	bhavyaskothari@gmail.com	SY
14	Yukta Chaudhari	60003250019	chaudhariyukta921@gmail.com	SY
15	Aman Gupta	60003240091	amangupta1354@gmail.com	SY
16	Krish Mendpara	60003240002	krishmendpara5@gmail.com	SY
17	Mohammed Asif Shershahva di	60003240162	mdasifsh255@gmail.com	SY
18	Zaid Ahmed	60003240231	zaid.ahmad201106@gmail.com	SY
19	Jeet Gharat	60003240223	jeet.a.gharat@gmail.com	SY



20	Sarthak Savani	60003240269	sarthaksavani2811@gmail.com	SY
21	Vansh Shah	60003240249	vanshah02@gmail.com	SY
22	Manan Bhayani	60003240083	bhayanimanan05@gmail.com	SY
23	Aryan Vaghani	60003240238	aryanvaghani2006@gmail.com	SY
24	Devendra Mote	60003240222	devendramote12@gmail.com	SY
25	Diya Shah	60003240100	diya68230@gmail.com	SY
26	Vidhi Prajapati	60003240051	vidhisp1010@gmail.com	SY

F. Research Projects

1. SparseFormer: Investigating the Emergence of Sparse Attention in Transformers

Problem Statement: This project presents SparseFormer, a research framework focused on understanding how sparse attention naturally emerges in Transformer architectures and how factors such as initialization, Layer Normalization, attention entropy, and Query-Key geometry influence this behavior. By comparing standard Transformer models with T-Fixup initialized architectures on character-level language modeling tasks, the framework analyzes attention patterns, entropy collapse, anisotropy, effective rank, and optimization dynamics throughout training. Through extensive geometric and spectral analysis of Q, K, and V representations, SparseFormer aims to uncover the conditions that promote efficient sparse attention while maintaining training stability, contributing to the development of more interpretable, robust, and computationally efficient Transformer models.

Teams Members:

- Vidit Gupta
- Siddhesh Nadkarni
- Bhavya Kothari
- Mihik Chaudhari

2. Privacy-Preserving Multimodal Human Action Recognition using Graph Neural Networks and Transformers

Problem Statement: This project proposes a privacy-preserving Human Action Recognition (HAR) framework that combines Graph Convolutional Networks (GCNs), Adaptive Graph Learning, Transformers, and multimodal fusion techniques to recognize complex human activities in real-world environments. Traditional RGB-based action recognition systems suffer from privacy concerns, environmental sensitivity, and limited capability in distinguishing visually similar actions. The proposed architecture leverages skeleton-based representations, occlusion-aware joint completion modules, adaptive graph convolutions, and transformer-based temporal modeling to capture long-range spatiotemporal dependencies while preserving user privacy. Additionally, the framework incorporates zero-shot and few-shot learning capabilities through CLIP-based semantic alignment and knowledge-guided action representations. By addressing challenges such as occlusion, viewpoint variation, limited training data, and computational efficiency, the system aims to provide robust, scalable, and deployable action recognition for healthcare, surveillance, and smart-environment applications.

Team Members:

- Gaurang Thakkar
- Asif Shershahwadi
- Zaid Ahmad
- Rohana Mahimkar
- Mallank Gogri



3. Lost in the Middle: Mitigating Long-Context Failures in Large Language Models

Problem Statement: This project investigates the "Lost in the Middle" phenomenon in Large Language Models (LLMs), a critical limitation where models struggle to effectively utilize information located in the middle of long contexts despite supporting context windows of up to millions of tokens. Existing transformer-based architectures exhibit strong primacy and recency biases, leading to degraded performance in retrieval-augmented generation (RAG), multi-document reasoning, and long-context question answering tasks. The proposed framework analyzes the root causes of positional and distance-based failures, including attention dilution, softmax competition, and positional encoding limitations. The study evaluates advanced mitigation strategies such as attention calibration, multi-scale positional encoding, hierarchical retrieval, prompt compression, and intelligent document ordering. By improving context utilization efficiency and reducing middle-context information loss, the project aims to enhance the reliability and reasoning capabilities of next-generation long-context AI systems.

Team Members:

- Abhishek Pandey
- Jai Udeshi
- Aryan Patil
- Nandini Nema
- Pranav Sonmale

4. Noise-Robust 2D-DPO: Enhancing Preference Optimization under Noisy Aspect-Level Annotations

Problem Statement: This project presents Noise-Robust 2D Direct Preference Optimization (2D-DPO), a novel framework designed to improve the robustness of preference-based language model alignment in the presence of noisy annotations. Existing Direct Preference Optimization methods assume that preference labels are accurate, making them vulnerable to annotation errors that propagate through hierarchical scoring systems. The proposed approach introduces a formal aspect-level symmetric noise model, analyzes noise propagation across aspect, segment, and response hierarchies, and develops a corrected 2D-DPO loss function using closed-form loss-correction coefficients. The framework preserves compatibility with existing 2D-DPO training pipelines while providing unbiased optimization under controlled noise conditions. Evaluated on datasets such as UltraFeedback and HH-RLHF, the model aims to improve training stability, robustness, and generalization under noisy supervision, contributing to more reliable and scalable language model alignment.

Team Members:

- Ashmit Janjirkar
- Rachit Kawediya
- Piyush Tiwari
- Krishna Naudiyal



5. Trap4Phish: Multi-Modal Deep Learning for Phishing Detection

Problem Statement: This project presents Trap4Phish, a multi-modal deep learning framework designed to detect phishing attacks across diverse content formats including URLs, HTML pages, PDFs, Word documents, and QR codes. Traditional phishing detection systems rely heavily on handcrafted features and lightweight machine learning models, limiting their ability to generalize across different attack vectors. Trap4Phish addresses this challenge by integrating Convolutional Neural Networks (CNNs) for image and QR-code analysis with LSTM-based sequence models for textual and URL-based content, combining their outputs through ensemble learning. By learning representations directly from multiple data modalities, the framework aims to improve phishing detection accuracy, robustness, and adaptability against evolving cyber threats.

Team Members:

- Yukta Chaudhari
- Devansh Raulo
- Dhairya Shukla



G. Event – Nirmaan 2026

Event Date: 27th February 2026

Event Name: Nirmaan 2026

Following its vision of fostering innovation and research-driven problem solving, DJ InIT.AI launched the first edition of Nirmaan 2026, a Technical Project Competition designed exclusively for Third-Year students. The event provided a platform for aspiring innovators to present impactful project ideas, receive industry feedback, and demonstrate their technical expertise across emerging technology domains.

The competition witnessed participation from 53 project teams and over 200 students, making it one of the largest project showcases organized by the club. Through a structured two-round evaluation process, students were challenged to transform classroom knowledge into practical solutions capable of addressing real-world problems.

Inauguration and Welcome

The event commenced with a traditional lamp-lighting ceremony in the presence of Principal Dr. Hari Vasudevan, respected faculty members of the IT Department, invited industry judges, and members of the InIT.AI club. The ceremony symbolized the beginning of a day dedicated to creativity, research, and innovation. A prayer ceremony followed, setting an inspiring tone for the competition ahead.

Nirmaan 2026 was organized by DJ InIT.AI, the AI Club of the Information Technology Department, with the objective of encouraging students to explore research-oriented thinking, industry-relevant problem solving, and technological innovation.

Domains and Competition Structure

To ensure focused evaluation and diverse participation, projects were categorized into four major domains:

- HealthTech, Biotech and Well Being
- Cybersecurity, Edge Computing, Privacy & Trustworthy Systems
- Smart City, IoT & Intelligent Infrastructure
- AI Applications, EdTech, FinTech & LegalTech

Each domain was divided into two judging tracks, resulting in a total of eight tracks during Round 1. Teams presented their problem statements, methodologies, technical architectures, implementation strategies, and anticipated real-world impact before industry experts.

Judging Panel

The projects were evaluated by an accomplished panel of industry professionals:

1. Dhruv Karia – Software Development Engineer, Kissht
2. Rashmi Lodha – Software Engineer, JP Morgan



3. Sairaaj Surve – Software Development Engineer, Gupshup
4. Aakash Goradia – Software Development Engineer & Systems Analyst, Crescent Pharma
5. Mahek Jain – Software Development Engineer, Ion Group
6. Aaryan Gupta – DevOps Engineer, TIAA
7. Richa Rokadiya – Associate Software Engineer, Saint-Gobain International IT Delivery Centre
8. Tanmai Kamat – Software Engineer I, Forcepoint

The judges assessed projects on innovation, technical feasibility, implementation quality, presentation skills, and potential real-world impact. Their interactive discussions provided valuable industry insights and constructive feedback to all participating teams.

Round 1 Highlights

Throughout the day, teams presented innovative solutions spanning healthcare technologies, cybersecurity systems, smart infrastructure solutions, and AI-powered applications. Following extensive evaluations, one winner was selected from each track.

Notable Track Winners included:

1. Winner of Track 1 – SAATH
Mitvi Dattani, Jash Shah, Moksh Shah, Mukti Bhavsar
Project Guide: Prof. Neha Katre
2. Winner of Track 2 – Temperature Sensing of Organ Transport Bio-Refrigerator
Rishi Panchal, Prathamesh Dattani, Rachit Chotalia, Vedant Samant
Project Guide: Prof. Prachi Satam
3. Winner of Track 3 – Real Time Distributed Denial of Service
Nandini Nema, Parv Siria, Jovita Shetty, Paril Rupani
Project Guide: Prof. Sharvari Patil
4. Winner of Track 4 – 3D Spatial Intelligence
Pranav Agarwal, Krishna Naudiyal, Nyasa Parikh, Poorva Sawant
Project Guide: Dr. Ramachandra Mangrulkar
5. Winner of Track 5 – Smart Street Light
Dirgh Shah, Fahim Badgujar, Akansh Maroli, Dhruv Lukhi
Project Guide: Dr. Vinaya Sawant
6. Winner of Track 6 – Smart Workers Jacket
Rachit Chawda, Raiyyan Patel, Shardul Aher, Rohit Singh
Project Guide: Dr. Vinaya Sawant



7. Winner of Track 7 – FedAvg-Based Decentralized Computer Vision Training in Edge Environment
Hitanshu Gala, Pranav Dharwadkar, Mihir Patil, Omkar Dalvi
Project Guide: Dr. Abhijit Joshi
8. Winner of Track 8 – Virtual Mock Courtroom
Vedehi Choudhary, Zainab Hotelwala, Yash Chaturvedi, Shubham Debnath
Project Guide: Prof. Neha Ram

These projects stood out for their technical depth, creativity, and ability to solve practical challenges through innovative technology.

Round 2: The Grand Finale

The top-performing teams advanced to Round 2, where they presented refined versions of their projects, incorporating feedback received from the first round. Finalists showcased working prototypes, system architectures, implementation plans, and deployment strategies before an esteemed panel comprising:

1. Mr. Gurudev Sutar (Associate Software Engineer at JPMorgan Chase & Co., 2022 Batch)
2. Mr. Darshan Valia (Software Engineer, 2012 Batch),
3. Mr. Nilay Shah (Management Trainee at HSBC, 2021 Batch).

The judging criteria focused on innovation, scalability, technical implementation, feasibility, and societal impact.

Winners

1. 1st Place Winners
3D Spatial Intelligence
Team Members: Pranav Agarwal, Krishna Naudiyal, Nyasa Parikh, Poorva Sawant
2. First Runner-Up
Temperature Sensing of Organ Transport Bio-Refrigerator
Team Members: Rishi Panchal, Prathamesh Dattani, Rachit Chotalia, Vedant Samant
3. Second Runner-Up
FedAvg-Based Decentralized Computer Vision Training in Edge Environment
Team Members: Hitanshu Gala, Pranav Dharwadkar, Mihir Patil, Omkar Dalvi

Closing Remarks

Nirmaan 2026 concluded on a highly successful note, celebrating the creativity, technical expertise, and problem-solving capabilities of students across multiple domains. Beyond the competition itself, the event served as a bridge between academia and industry, enabling participants to gain valuable feedback from professionals while refining their ideas into practical, impactful solutions.

As the inaugural edition of the competition, Nirmaan 2026 established itself as a promising platform for innovation and technical excellence, laying the foundation for future editions that will continue to inspire students to push the boundaries of technology and research.





DJ InIT. AI
Deriving Intelligence for Tomorrow





SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)



DJ InIT. AI
Deriving Intelligence for Tomorrow



Mumbai, Maharashtra, India 🇮🇳
No. U, 15, Bhaktivedanta Swami Rd, Opp. Cooper Hospital, Navpada, Jvpd Scheme, Vile Parle, Mumbai, Maharashtra 400056, India
Lat 19.107236° Long 72.837282°
Friday, 27/02/2026 05:24 PM GMT +05:30



Mumbai, Maharashtra, India 🇮🇳
Svkm's Dwarkadas, J Sanghvi College Of Engineering, Bhaktivedanta Swami Rd, Navpada, Jvpd Scheme, Vile Parle West, Mumbai, Maharashtra 400056, India
Lat 19.107321° Long 72.837295°
Friday, 27/02/2026 05:22 PM GMT +05:30



Mumbai, Maharashtra, India 🇮🇳
Svkm's Dwarkadas, J Sanghvi College Of Engineering, Bhaktivedanta Swami Rd, Navpada, Jvpd Scheme, Vile Parle West, Mumbai, Maharashtra 400056, India
Lat 19.1073° Long 72.837273°
Friday, 27/02/2026 05:23 PM GMT +05:30



Mumbai, Maharashtra, India 🇮🇳
No. U, 15, Bhaktivedanta Swami Rd, Opp. Cooper Hospital, Navpada, Jvpd Scheme, Vile Parle, Mumbai, Maharashtra 400056, India
Lat 19.107186° Long 72.837275°
Friday, 27/02/2026 05:23 PM GMT +05:30



Mumbai, Maharashtra, India 🇮🇳
No. U, 15, Bhaktivedanta Swami Rd, Opp. Cooper Hospital, Navpada, Jvpd Scheme, Vile Parle, Mumbai, Maharashtra 400056, India
Lat 19.10719° Long 72.837269°
Friday, 27/02/2026 11:49 AM GMT +05:30



SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)



DJ InIT. AI
Deriving Intelligence for Tomorrow

