



**International Conference on Artificial Intelligence
and Beyond: Emerging Innovations and Applications
(IAIB 2025)**
3rd and 4th July 2025



JSPM's Rajarshi Shahu College Of Engineering
Tathawade, Pune - 411033
(An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)

Department of Computer Engineering

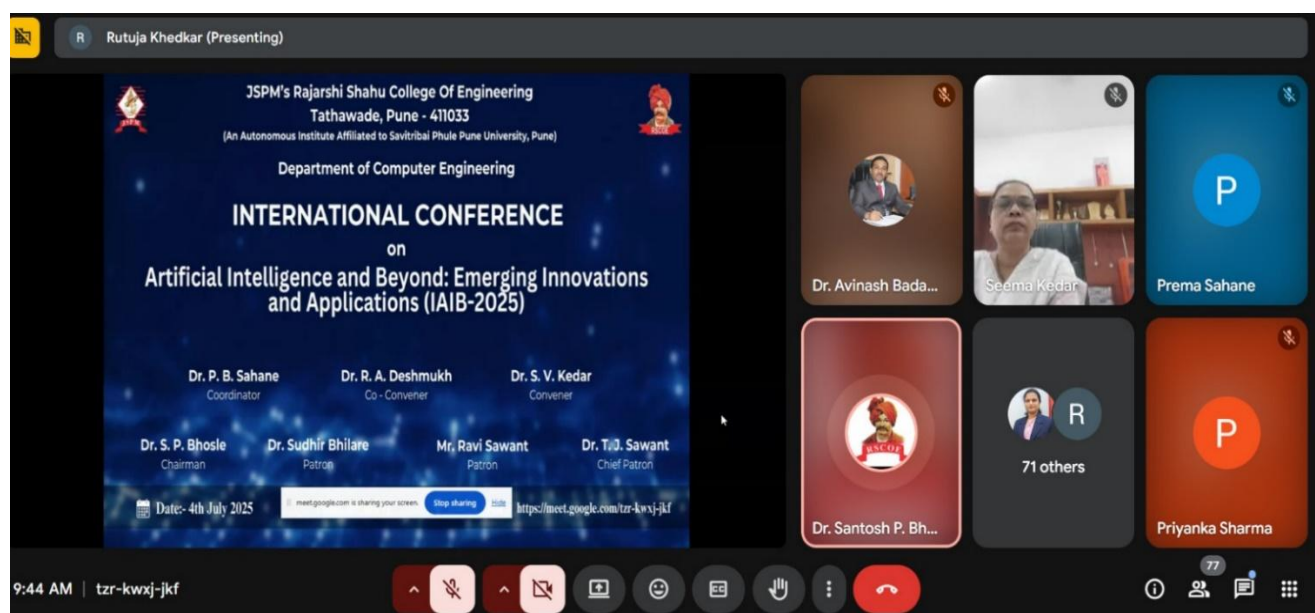
INTERNATIONAL CONFERENCE
on
Artificial Intelligence and Beyond: Emerging Innovations
and Applications (IAIB-2025)

Dr. P. B. Sahane Coordinator	Dr. R. A. Deshmukh Co - Convener	Dr. S. V. Kedar Convener	
Dr. S. P. Bhosle Chairman	Dr. Sudhir Bhilare Patron	Mr. Ravi Sawant Patron	Dr. T. J. Sawant Chief Patron

 **Date:- 4th July 2025**  **Time:- 09:30AM**  **Google Meet :- <https://meet.google.com/tzr-kwxj-jkf>**

International Conference on Artificial Intelligence and Beyond: Emerging Innovations and Applications (IAIB 2025) on 3rd and 4th July was organized online through the Google Meet platform by Computer Engineering Department of Rajarshi Shahu College of Engineering Tathwade, Pune at Pune Maharashtra. The aim objective of the **IAIB 2025** was to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in recent trends in Computer Science and Information Technology. The audience comprised of 85 attendees from India and other countries. Prof. Dr. Seema Kedar, convener, IAIB-2025 conference, welcomed Dr. Bimlesh Wadhwa and the audience. She gave the background of the event and outlined the sessions planned and said that idea to host the IAIB-2025 in JSPM's RSCOE at Pune is to bring together Researchers, Scientists, Engineers, Scholars and Students in the areas of Science, Engineering and Technology. She also informed the audience that ample time had been reserved for questions, networking, and

discussions while encouraging them to participate in the question-answer slots planned at the end of each session proactively.



After a briefing of the conference by Prof. Dr. Seema Kedar, Dr. Avinash Badadhe Sir, Deputy Director said that themes of IAIB-2025 underpin the need for participation in this symposium for collaborative research and cooperation of individuals from a wide range of professional backgrounds. The IAIB-2025 Conference provides a wonderful forum to refresh knowledge base and explores the innovations in Computer Science and Information Technology.

Dr. Avinash Badadhe, Deputy Director speech is followed by Dr. Santosh Bhosle, Director. In his speech, he said over the years, dramatic improvements have been made in the field of Artificial Intelligence in the today's scenario. He said that this conference would provide a wonderful forum to refresh the knowledge base and explore the innovations in Computer Science and Information Technology. He also thanked the participants for their contribution.

A brief introduction about the speaker was given by Dr. Prema Sahane, following which the Keynote Address was delivered by Prof. Dr. Bimlesh Wadhwa, Assistant Dean at the National University of Singapore.

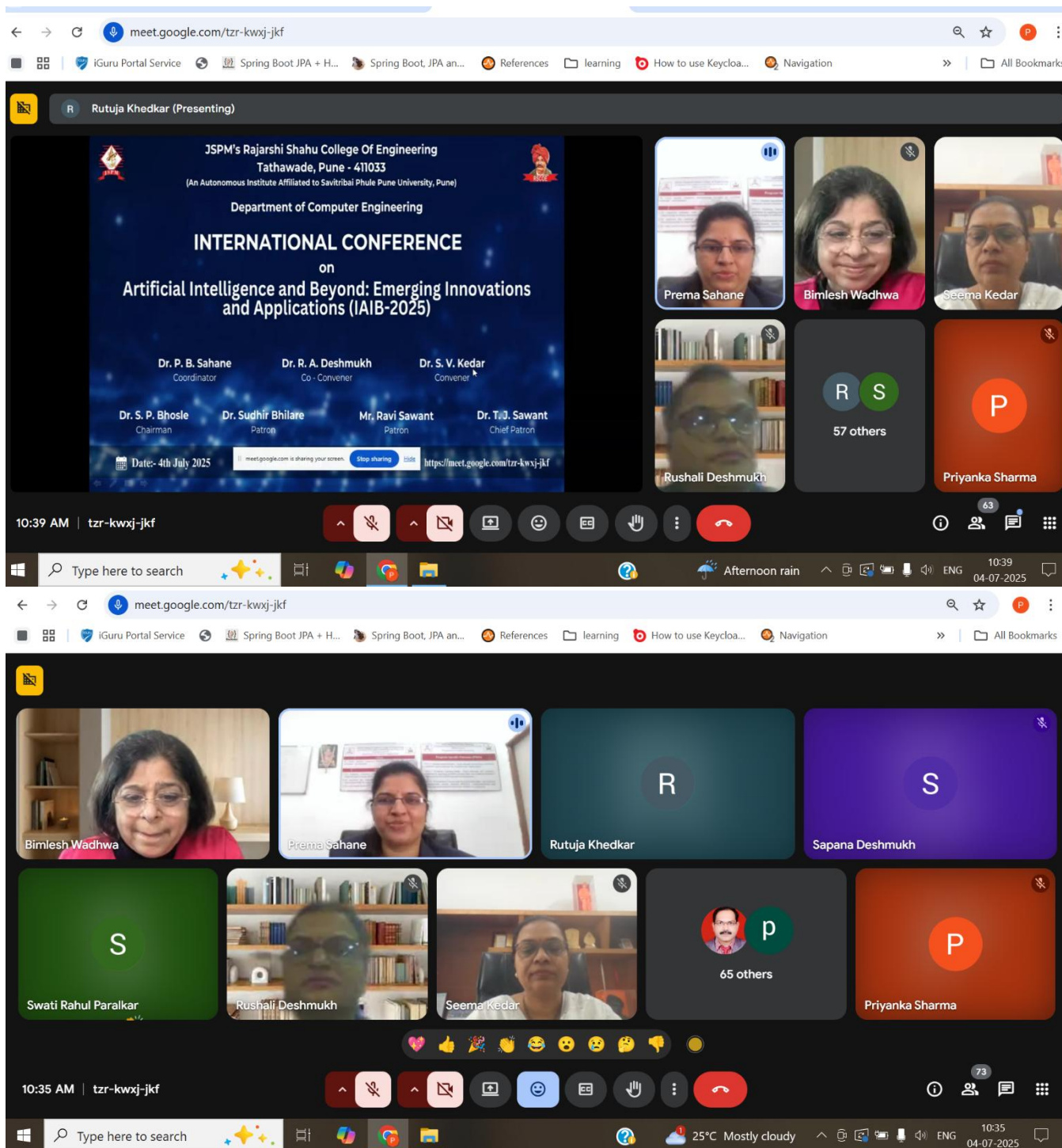
Session Topic: A Human Lens on AI's Reach

Speaker: Prof. Dr. Bimlesh Wadhwa, Assistant Dean, National University of Singapore

The screenshot shows a Google Meet window. The main display area shows a presentation slide titled "International Conference on Artificial Intelligence and Beyond: Emerging Innovations and Applications (IAIB-2025)". The slide features a portrait of Dr. Bimlesh Wadhwa and the text "A Keynote Address ON A Human Lens on AI's Reach". The date is "Date: 4th July 2025" and the time is "Time: 10:00 AM". The presenter's name, "Dr. Bimlesh Wadhwa", is at the bottom of the slide. The top of the slide mentions "JSPM's Rajarshi Shahu College Of Engineering, Tathawade, Pune - 411033 (An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune) Department of Computer Engineering". The right side of the window shows a grid of participant video feeds. Visible participants include Prema Sahane, Bimlesh Wadhwa, Seema Kedar, Rushali Deshmukh, and Priyanka Sharma. A "68 others" icon is also present. The bottom of the window shows the Google Meet controls and a Windows taskbar with the time 10:35 AM and date 04-07-2025.

The screenshot shows a Google Meet window. The main display area shows a presentation slide titled "Human Lens". The slide contains the text: "In full transparency, I'd like to share that this talk was prepared with assistance from AI tools. I did this intentionally—to illustrate how AI can amplify human creativity and productivity, even in something as human as crafting a presentation. It's not about AI replacing us—but about how we can use it thoughtfully, as a partner." To the right of the text is an image of a person's head with a glowing brain. The presenter's name, "Bimlesh Wadhwa", is at the top of the slide. The right side of the window shows a grid of participant video feeds. Visible participants include Rachay..., Bimlesh Wadhwa, Prema Sahane, Dr. Santo..., Dr. Avinash Badadhe, Dr. Sunil Kandalkar, rushali deshmukh, and apama tiwari. A "63 others" icon is also present. The bottom of the window shows the Google Meet controls and a Windows taskbar with the time 9:51 AM and date 04-07-2025.

In her speech, Bimlesh madam spoke about the different applications of the Artificial Intelligence, AI For Finance Advice. She started her presentation with her vision about AI and its approach towards human-centric development with AI. She delivered the product demo and also shared the podcast on this latest works of her.



Vote of thanks was given by Prof. R. A. Deshmukh, Co-convener, IAIB-25 conference. She expressed her sincere thanks to Management, Reviewers, committee members, volunteers and wished best luck to all participants.

After Inauguration function parallel paper presentation by different session chairs was conducted. Among 560 papers submitted in the conference and only 25 best papers were selected to be presented in the conference. These papers will be published in a **Scopus- Indexed Book CRC Press, A Taylor and Francis Group**.

Glimpses of Conference

meet.google.com/qnc-nruz-pog

Leander Fernandes (Presenting)

Research Gap & Contribution

Acknowledged Gaps in Prior Research

- Missing components in earlier models:
 - ✗ Punishment estimation
 - ✗ Semantic case retrieval
 - ✗ Support for diverse narrative styles (1st/3rd person)
 - ✗ Real-time legal adaptability

Our System Addresses These Gaps by:

- ✓ Predicting relevant IPC sections from natural language crime descriptions
- ✓ Estimating legally appropriate punishments using precedent-based reasoning
- ✓ Retrieving semantically similar prior cases using SentenceTransformer + ChromaDB
- ✓ Supporting multiple input styles for better narrative flexibility (e.g., FIRs, confessions)
- ✓ Integrating with Gemini API for summarization and Streamlit + React for ease of use

IAIB-201

11:09 AM | qnc-nruz-pog

25°C Mostly cloudy

ENG 04-07-2025

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People

- Mute all
- Add people
- Kaamya Sarda
- Kaustubh Patil
- Rutuja Khedkar
- Sanket Lodhe
- Shushrusha Renakale
- U3_AshleshaKagane
- Vaishali Salgar

12:32 PM | International Conference IAIB 2025

ENG IN 04-07-2025

meet.google.com/qnc-nruz-pog

Harsh.Madhnani Mtech2023 (Presenting)

Literature review

Types of Data Utilized	Framework Used	Gaps
IoT, Vehicular Networks, IIoT, Cyber-Physical Systems, Smart Cities, Healthcare, UAV, WSN, Face Detection	Federated Learning frameworks (FL-SCNN-Bi-LSTM, GowFed, FedGenID, VAN-FED-IDS), Hybrid learning (1D-CNN, GRU, LSTM), Blockchain integration, Digital Twin environments	Scalability, data heterogeneity, adversarial attacks, limited real-world testing, lack of diverse and high-fidelity datasets
Datasets: CICIDS-2017, UNSW-NB15, WSN-DS, Edge-IIoTset, Sensor480, CTAT, CIC IoTV, Car Hacking, and Gas Pipeline datasets	Asynchronous FL, Secure aggregation (homomorphic encryption, differential privacy), Conditional GANs (FedGenID), Incremental learning, and Client-server architectures	Issues in handling real-time data, privacy-preserving techniques, low-quality data, limited exploration of emerging threats
Diverse applications like IDS in IIoT, VANET, smart grids, and healthcare systems	Combination of ML/DL techniques (XGBoost, CatBoost, SVM, PCA), Ensemble models, Genetic Algorithms, Multi-agent learning frameworks (DQN, A2C)	Challenges in generating realistic datasets, balancing model complexity with resource constraints, and integrating robust solutions

11:29 AM | qnc-nruz-pog

Harsh.Madhnani ... Pradnya Vikhar Rushali Deshmukh Dr. Chhaya Gosavi 10 others Priyanka Sharma

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meet.google.com/udd-zcdb-vyg

Stylishstar Rohan (Presenting)

ABSTRACT

- The study enhances stock market prediction using LSTM models.
- Incorporates fine-grained sentiment analysis and socioeconomic indicators.
- Detects subtle changes in sentiment from news & social media.
- Uses macroeconomic data (GDP, Inflation, etc.) to improve accuracy.
- Achieved 98.5% prediction accuracy — outperforming traditional models.

10:35 PM | udd-zcdb-vyg

Stylishstar Rohan Ashwini Bhosale Dr. Manisha Nirg... Dr. Manish... Yashodhan... Anuja Dive Rutuja Kh...

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https://meet.google.com/bht-xcyh-pzf

A Anjli Sahajrao (Presenting)

ABSTRACT

Video Surveillance plays a pivotal role in today's world. The technologies have been advanced too much when artificial intelligence, machine learning and deep learning pitched into the system. Using above combinations, different systems are in place which helps to differentiate various suspicious behaviors from the live tracking of footages.

The most unpredictable one is human behavior and it is very difficult to find whether it is suspicious or normal. Deep learning approach is used to detect suspicious or normal activity in an academic environment, and which sends an alert message to the corresponding authority, in case of predicting a suspicious activity. Monitoring is often performed through consecutive frames which are extracted from the video.

Samruddhi S...

Kirti Deshp...

Dr. Chandra...

Rohit Kalabu...

Nisha Wandile

Mahua Pal

Anjli Sahajrao

Rutuja Khed...

11:26 PM | bht-xcyh-pzf

meet.google.com/oca-fxqk-hfk

K Kaamyia Sarda (Presenting)

RESULTS (CONTD.)

Fig. 6: Improvement Over Existing Models

Kaamyia Sarda

Prema Sahane

Bewoor Mrunal

Sanket Lodhe

Rahman Khan

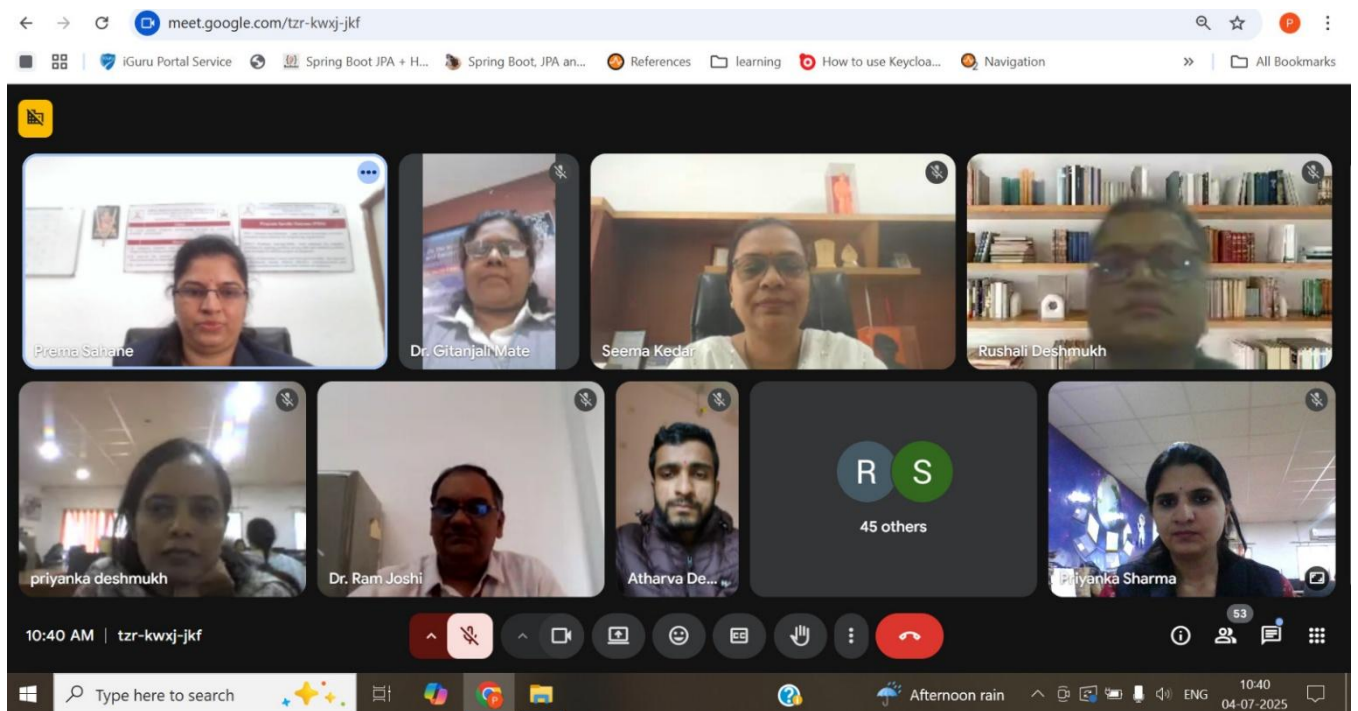
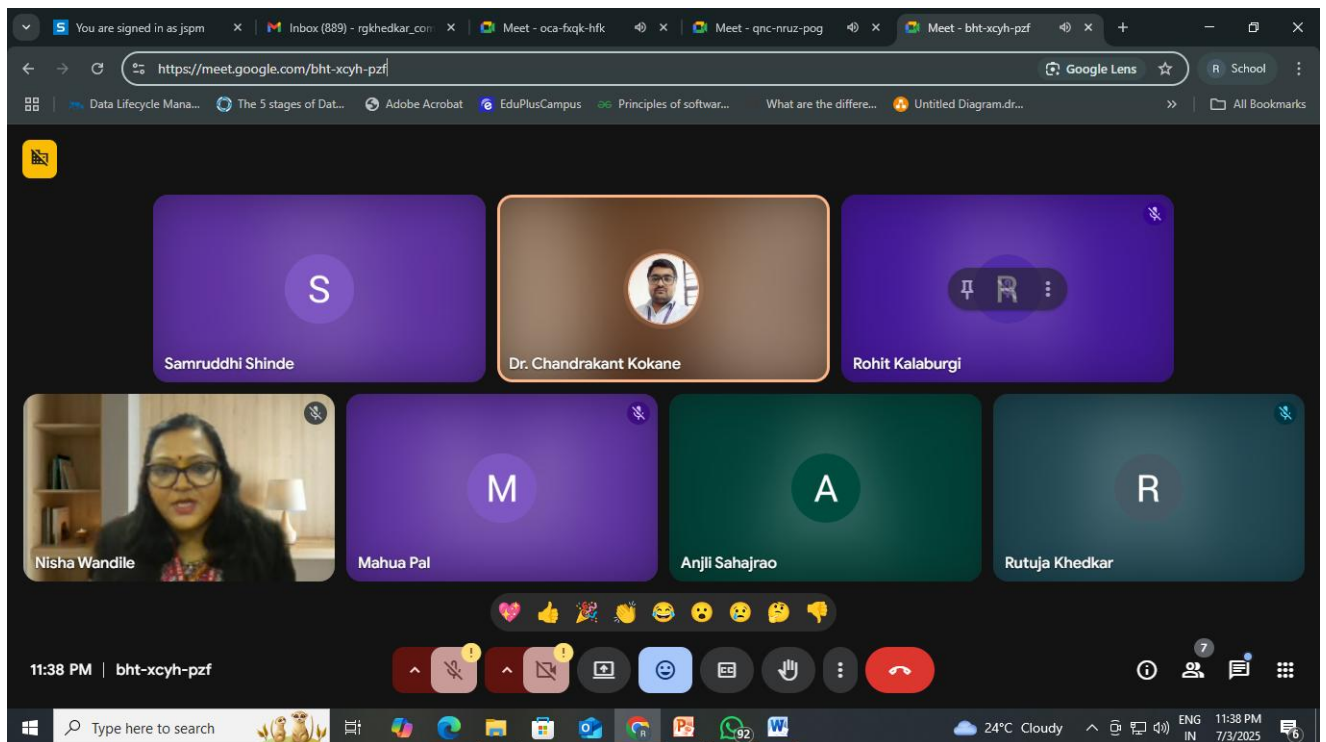
Shushrusha Renakale

Kaustubh Patil

5 others

Rutuja Khedkar

11:31 PM | oca-fxqk-hfk



Prema
Dr. Prema Sahane
Coordinator
IAIB-25 conference

Rushali Deshmukh
Dr. Rushali Deshmukh
Co-conevener
IAIB-25 conference

Seemaah
Dr. Seema Kedar
Convener
IAIB-25 conference