J.B.INSTITUTE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

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Yenkapally (V), Moinabad (M), P.O.Himayat Nagar, R.R District, Hyderabad – 500 075.
PhoneNo:08413–23517,235053,Fax:08413-235753

Department of Computer Science and Engineering

Dated: 07/07/2025

CIRCULAR

We feel great pleasure to inform you that Department of Computer Science and Engineering, JBIET is organizing a Faculty Development Program on Cloud Computing in collaboration with EXCELR.. The Faculty Development Program will be conducted for all Computer Science and Engineering and its allied branches from 14-07-2025 to 18-07-2025 in online mode from 3:00 PM to 5:00 PM.

EVENT CO-ORDINATOR

HOD-CSE

Head of the Department
Computer Science and Engineering
J.B. Institute of Engg. & Technology
Yenkapally, Moinabad Mandal
Hyderabad-75

Circulated to:

1. *Principal*
2. *Dean Academic*
3. *Staff*
4. *Admin office*

EXCELR
Raising Excellence

EDL Everyday Learning

JB

Faculty Development Program on

LIVE

CLOUD COMPUTING

in Collaboration with

Jb institute of engineering and technology (JBIET)

*Get Certificate Of Participation for **FREE***

14th - 18th JULY 2025

03:00 PM to 05:00 PM

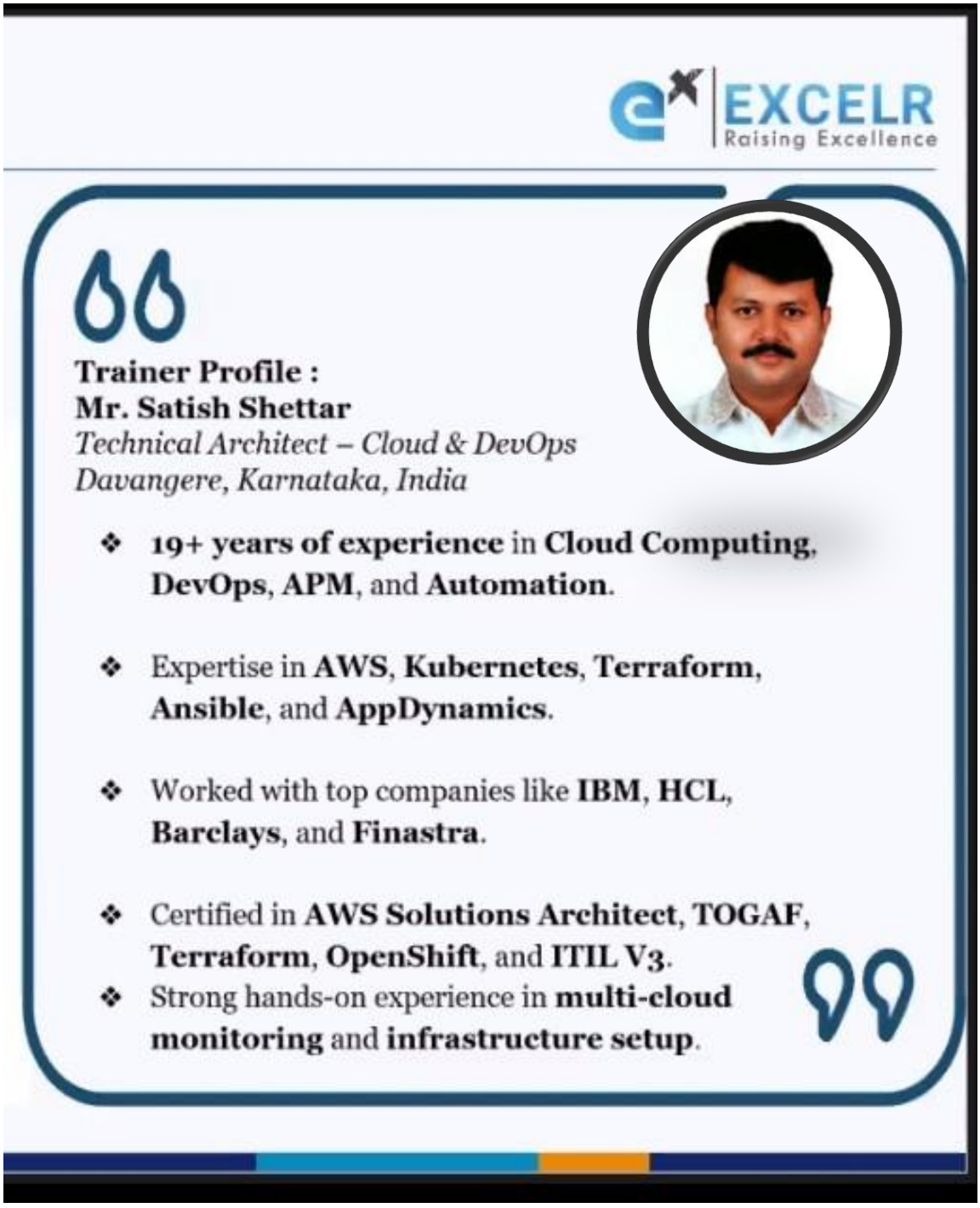
2 hours per day for 5 days : Mon to Fri

SCAN ME!!

+91 96069 57287 | edl@excelr.com | www.excelr.com

Profile

Name:Satish shettar



Inaugural session:

Inaugural Session Speech by the Head of Department Dr.G.Sreenivasulu on the topic ofcloud Computing.In today's fast-paced and interconnected world, cloud computing is not just a buzzword—it's a powerful paradigm that is transforming how we think about data, software, infrastructure, and business operations. From startups to tech giants, from education to healthcare, cloud computing is revolutionizing every sector with its scalability, flexibility, and cost-efficiency.

The purpose of this session is to introduce you to the fundamentals of cloud computing, discuss its real-world applications, and ignite a spirit of innovation among all participants. We hope to equip you with both theoretical insights and practical skills that will serve as a foundation for your future endeavors—be it academic research, industrial training, or entrepreneurial ventures.

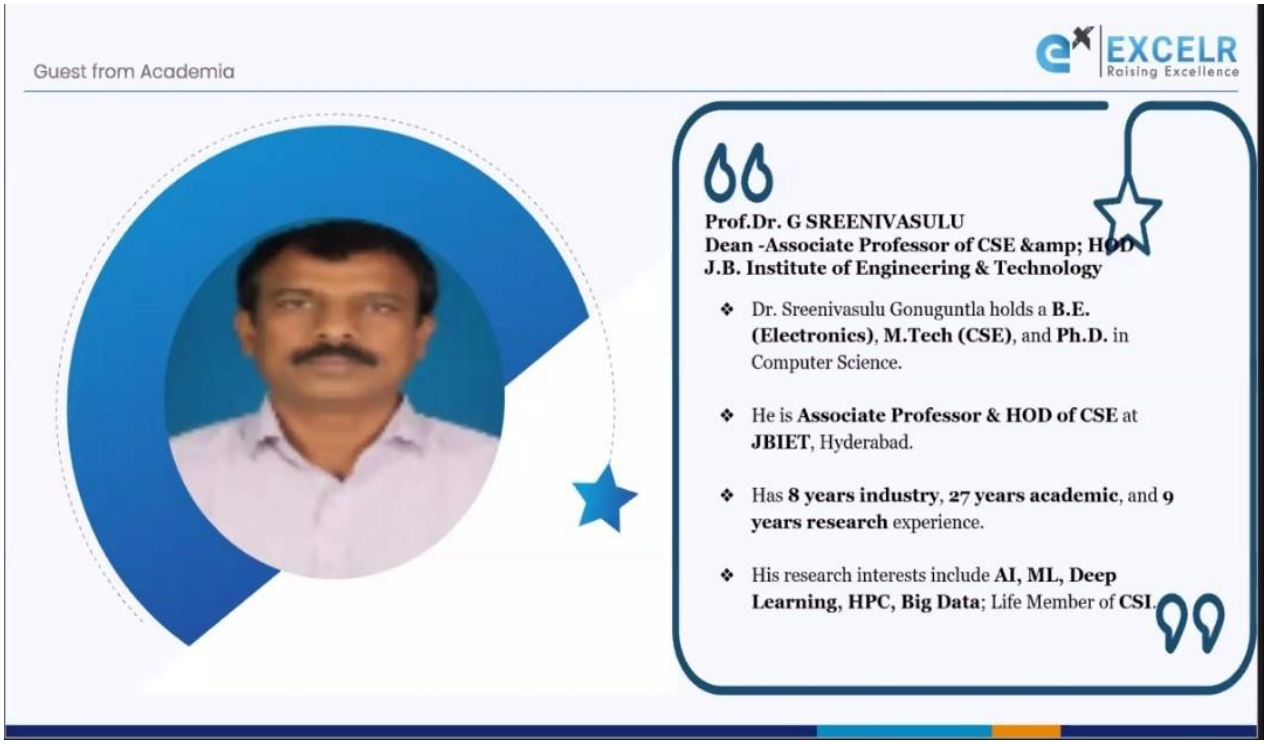


Fig -1 HOD-Dr. G.Sreenivasulu is addressing the session on 14th July 2024

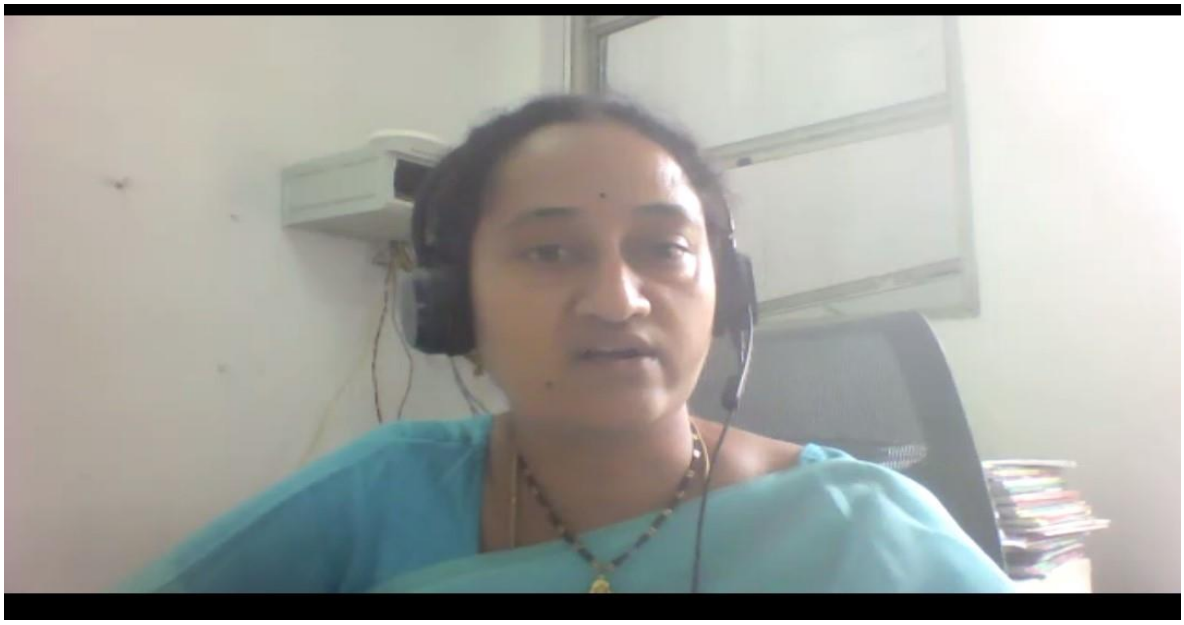


Fig-2 Addressing delegates from various Engineering colleges in online mode

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DEPARTMENTOFCOMPUTERSCIENCEAND ENGINEERING
DETAILEDREPORT
ON
A FIVE-DAY FACULTY DEVELOPMENT PROGRAM ON

CLOUD COMPUTING

From 14th to 18ndJuly 2025

AimandObjective:

The primary objective of cloud computing is to deliver scalable and flexible IT services over the internet while reducing the cost and complexity associated with traditional computing methods. Cloud computing aims to provide on-demand access to computing resources such as servers, storage, databases, networking, software, and analytics with minimal management effort or service provider interaction.

Date ofEvent **:**From 14th to 18nd November 2024

Venue **:**Online mode

Faculty Coordinators:1.Mr. N.Thirumalarao 2. Mrs S .Gayathridevi 3.Mr. D.Himagiri

ResourcePerson **:Mr.Satish shettar**

Introduction

The Department of CSE organized a one-week Faculty Development Program (FDP) on **Cloud Computing** to enhance the knowledge and teaching skills of faculty members in the area of cloud technologies. This program aimed to familiarize participants with the fundamentals, emerging trends, platforms, and applications of cloud computing in both academic and industry settings.

Objectives of the FDP

- To provide insights into the architecture and models of cloud computing.
- To equip faculty with the knowledge of various cloud service models (IaaS, PaaS, SaaS).
- To explore practical implementations using cloud platforms such as AWS, Microsoft Azure, and
- Google Cloud.
- To discuss the latest trends such as serverless computing, containerization, and cloud security.
- To bridge the gap between academic curriculum and industry requirements.

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Day1:

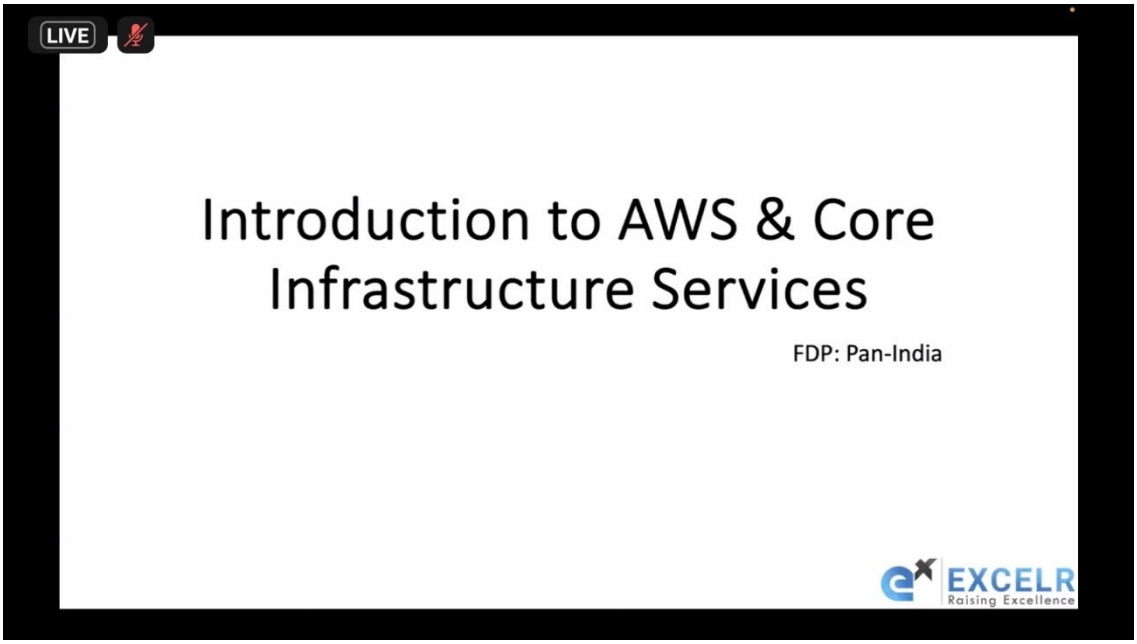


Fig-3: Mr.Satish shettar taking session on Introudction to AWS and Core Infrastructure serviceson 14th july 2025

Amazon Web Services (AWS) is acomprehensive and widely adopted cloud platformoffered byAmazon. Launched in 2006, AWS provideson-demand cloud computing services and APIsto individuals, businesses, and governments on a metered pay-as-you-go basis. It helps users avoid the cost and complexity of owning and maintaining physical servers by offering scalable, reliable, and secure cloud solutions.

AWS is used for a wide range of applications including web hosting, data storage, machine learning, IoT, big data processing, mobile application development, and enterprise IT modernization.

AWS offers a broad set of global cloud-based products, and among the most essential are its core infrastructureservices, which can be categorized as follows:

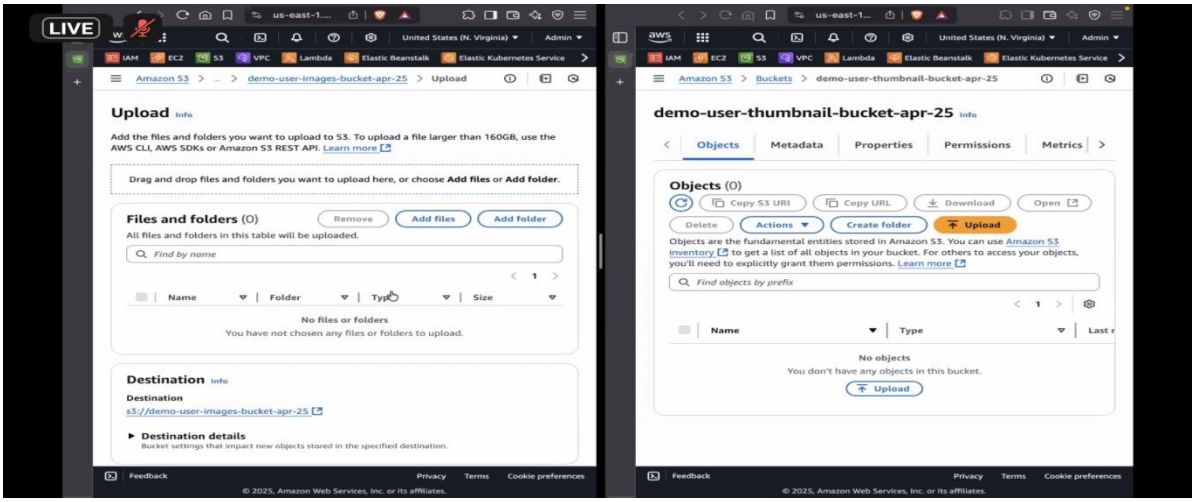
Amazon EC2, Storage (Amazon S3 and EBS),Database services, Monitoring and Management.

Day2:

Amazon s3

Amazon S3 (Simple Storage Service)is a scalable object storage service provided by Amazon Web Services (AWS). It is designed to store and retrieve any amount of data, at any time, from anywhere on the web.

- Backup and restore
- Website hosting
- Data lakes and big data analytics



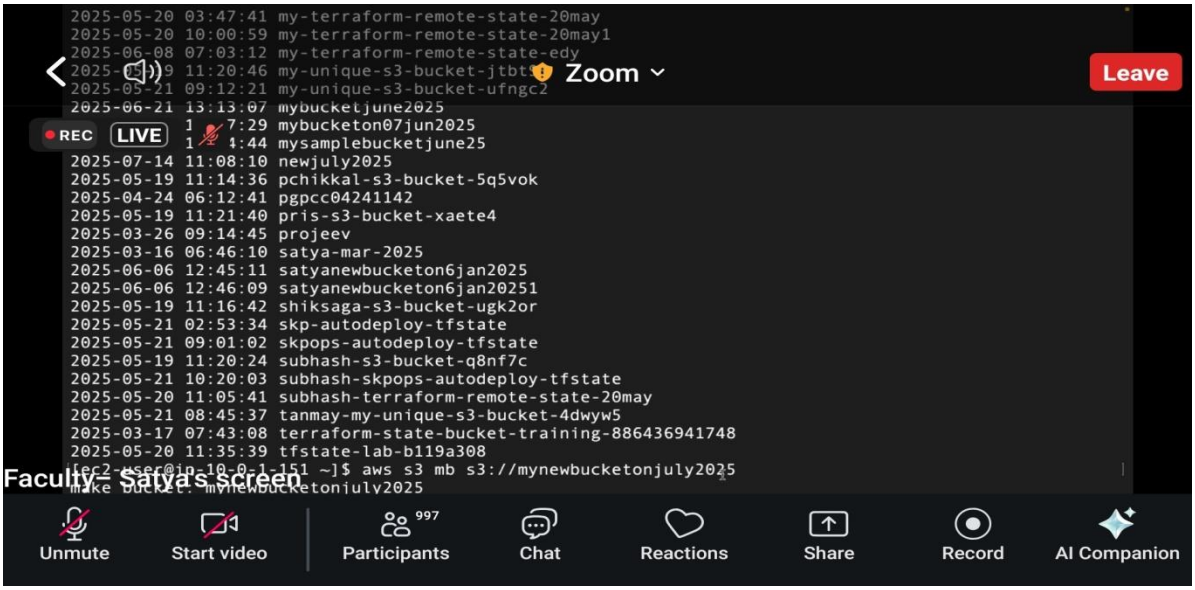


Fig-4: Mr. Satish shettar taking practical session on Amazon s3 on 15th July 2025

Day3:

LIVE

Amazon RDS - Backup, Read Replicas & Multi-AZ

- **Automated Backups**: Daily snapshots and transaction logs
- **Read Replicas**: Scale read-heavy apps, offload reporting
- **Multi-AZ**: High availability with standby replica
- Encryption in transit and at rest supported
- **Enterprise Use Case:**
  Healthcare platform uses Multi-AZ RDS for high availability and Read Replicas for reporting dashboards.
- **Example:**
  Faculty runs classroom analytics queries on RDS Read Replica without affecting main database.

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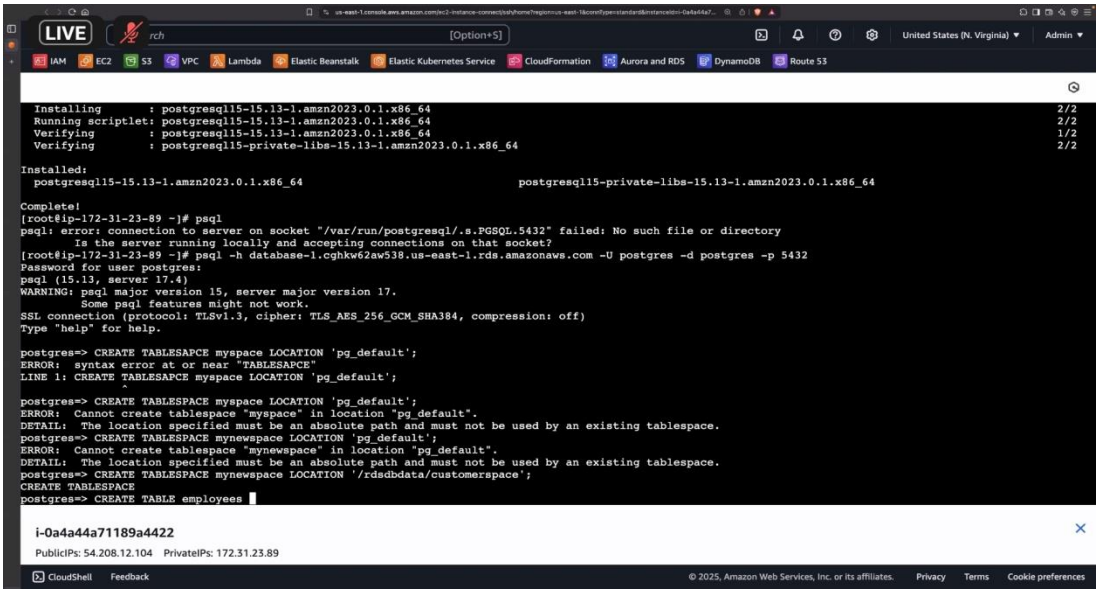
Amazon EFS – Managed Network File System

- Fully managed **NFS-based file system**
- Can be mounted on multiple EC2 instances simultaneously
- Grows and shrinks automatically
- Ideal for shared, scalable workloads
- **Enterprise Use Case:**
  Engineering firm stores simulation files accessed by multiple analysis servers.
- **Example:**
  Share lab files between different student EC2 instances during collaborative coding exercises.

EXCELR Raising Excellence



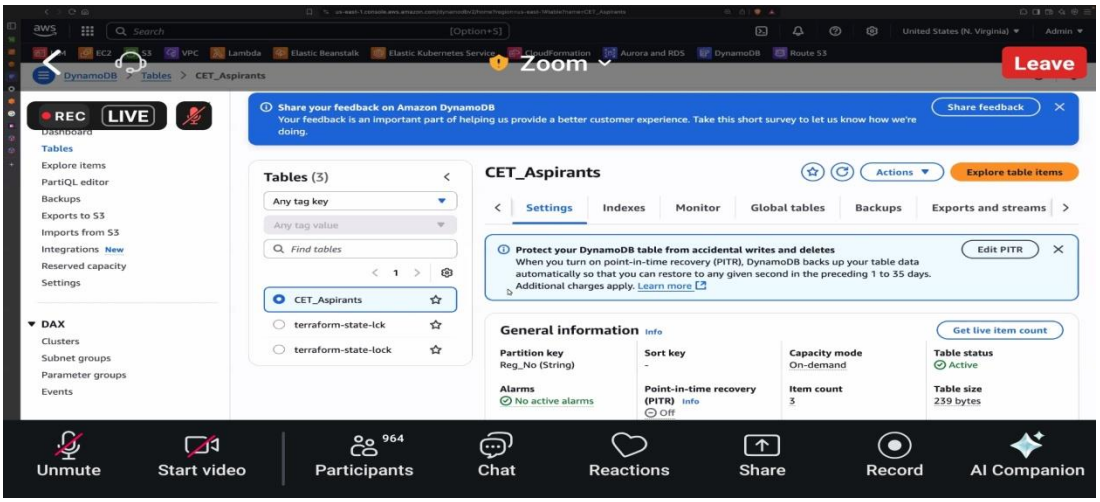


Fig-5: Mr. Satish shettar taking practical session on Amazon RDS,Backups on 16th July 2025

Day-4:Cloud Watch logs and Dashboards

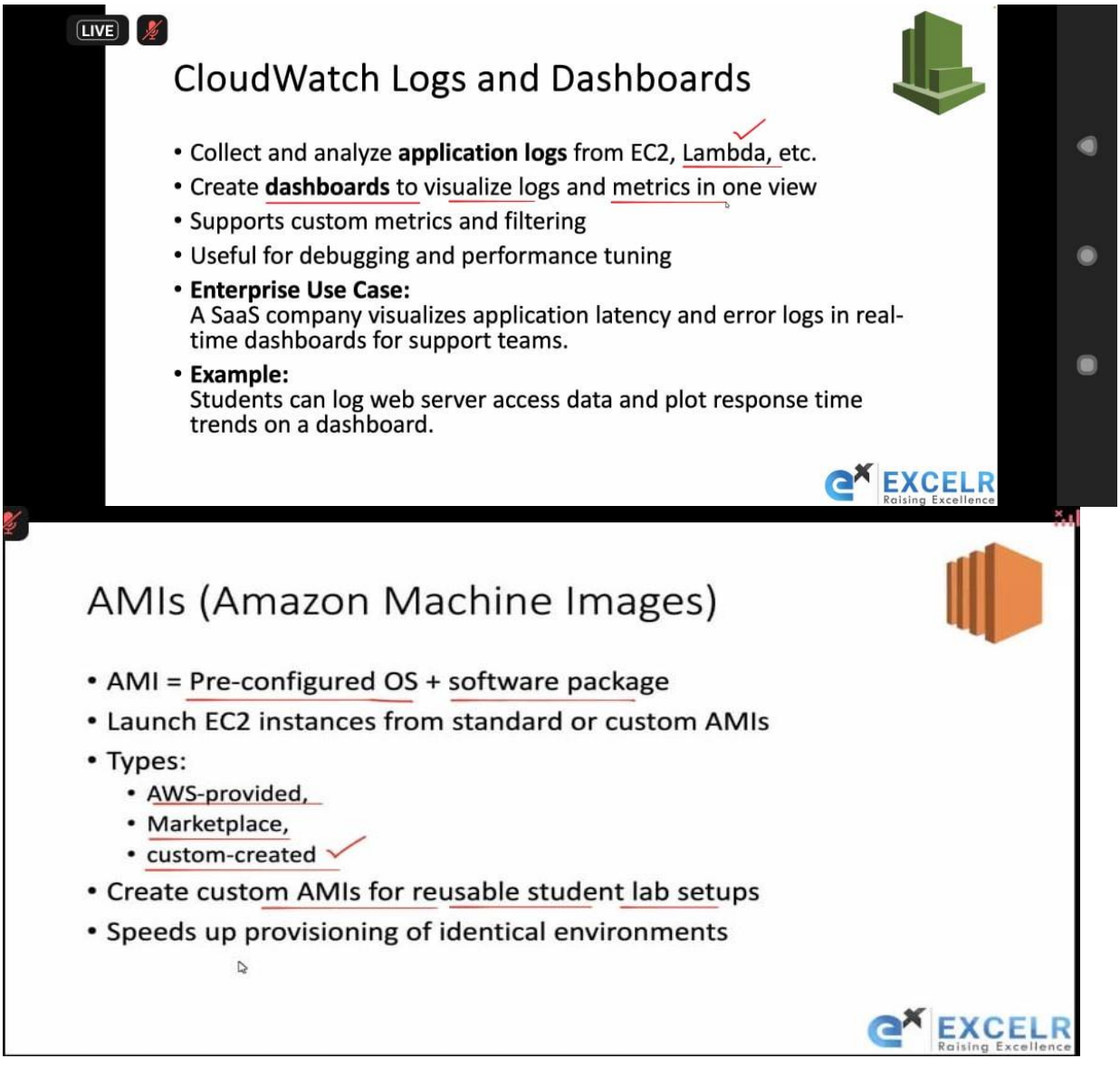


Fig -6 Mr. satish setter is taking session on 17th july 2025

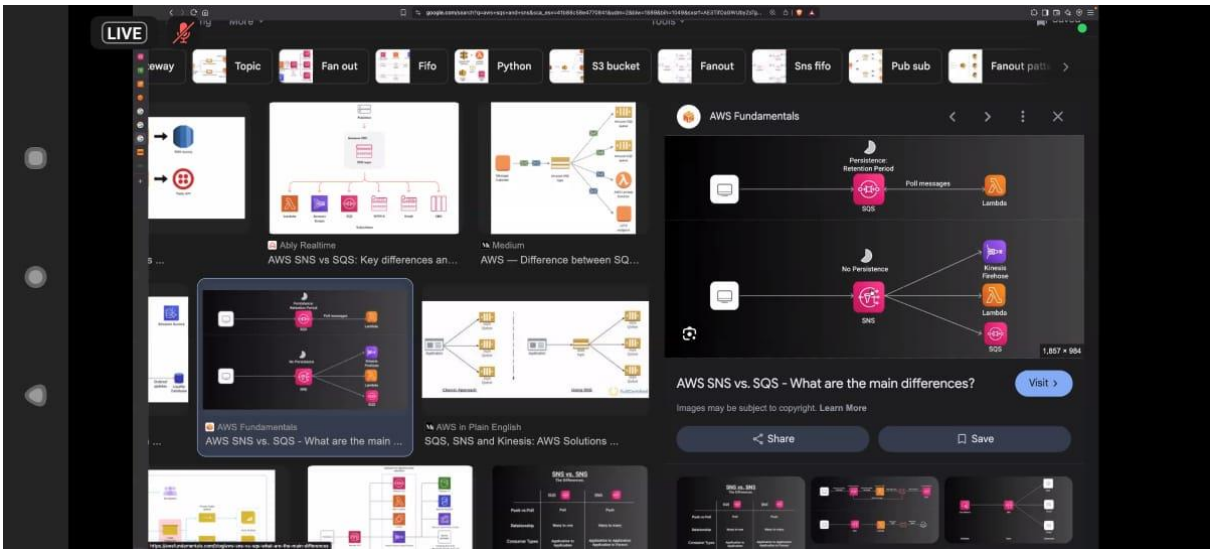


Fig -7 Mr. satish setter is taking practical session on 17th july 2025

Day-5: Introduction to AWS AI/ML Services

LIVE

Introduction to AWS AI/ML Services

- AWS offers pre-trained AI services and custom ML model support
- Accessible via APIs – no ML expertise required for basic use
- Common categories: Image/Video, Text, Speech, Forecasting
- Easily integrates with other AWS services (e.g., S3, Lambda)
- **Enterprise Use Case:**
  A customer service company uses AWS AI services for speech-to-te
  call analysis and sentiment detection.
- **Example:**
  Students build a basic ML-powered web app using AWS Rekognitic
  for image labeling.

Amazon Rekognition – Image and Video Analysis

- Recognizes objects, people, text, and scenes in images and videos
- Supports facial analysis, comparison, and moderation
- Integrates with S3, Lambda for event-driven processing
- Real-time and batch analysis supported
- **Enterprise Use Case:**
  Law enforcement agencies use Rekognition to scan surveillance footage for known faces.
- **Example:**
  Upload a photo to S3 → Trigger Rekognition → Display detected labels (e.g., "Car", "Tree", "Person").

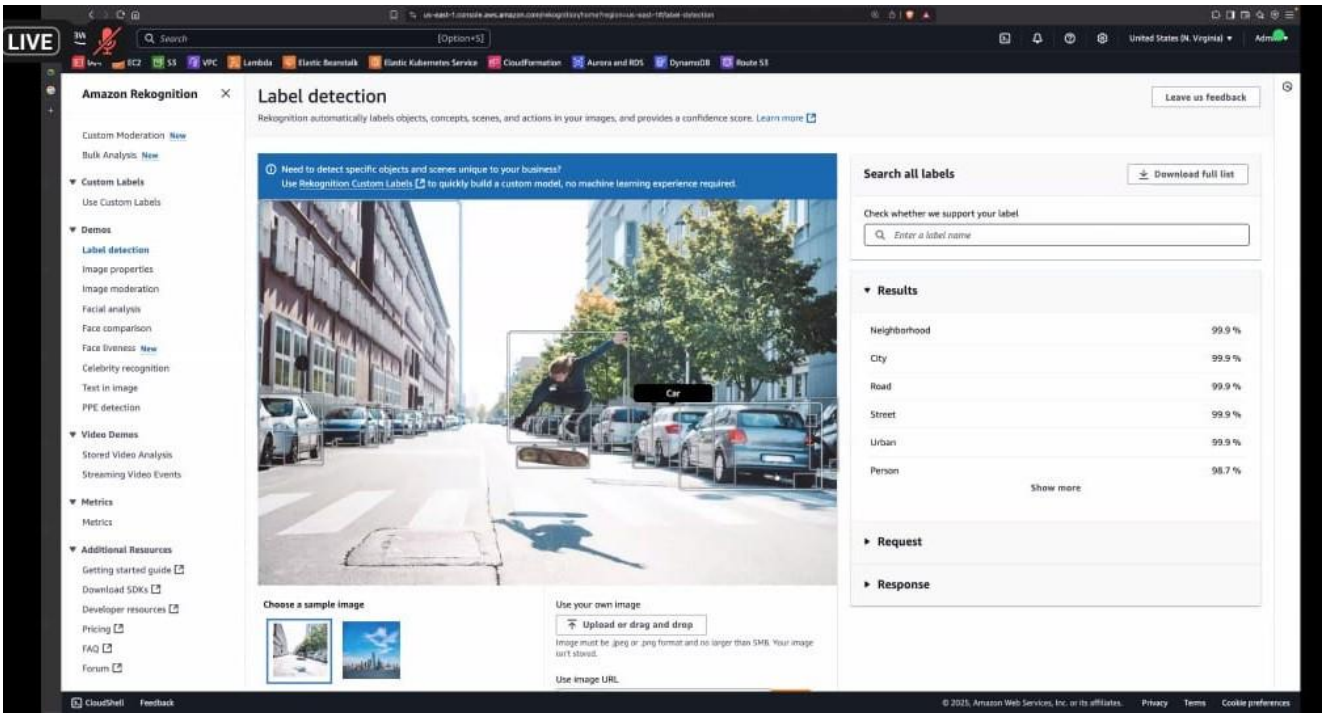
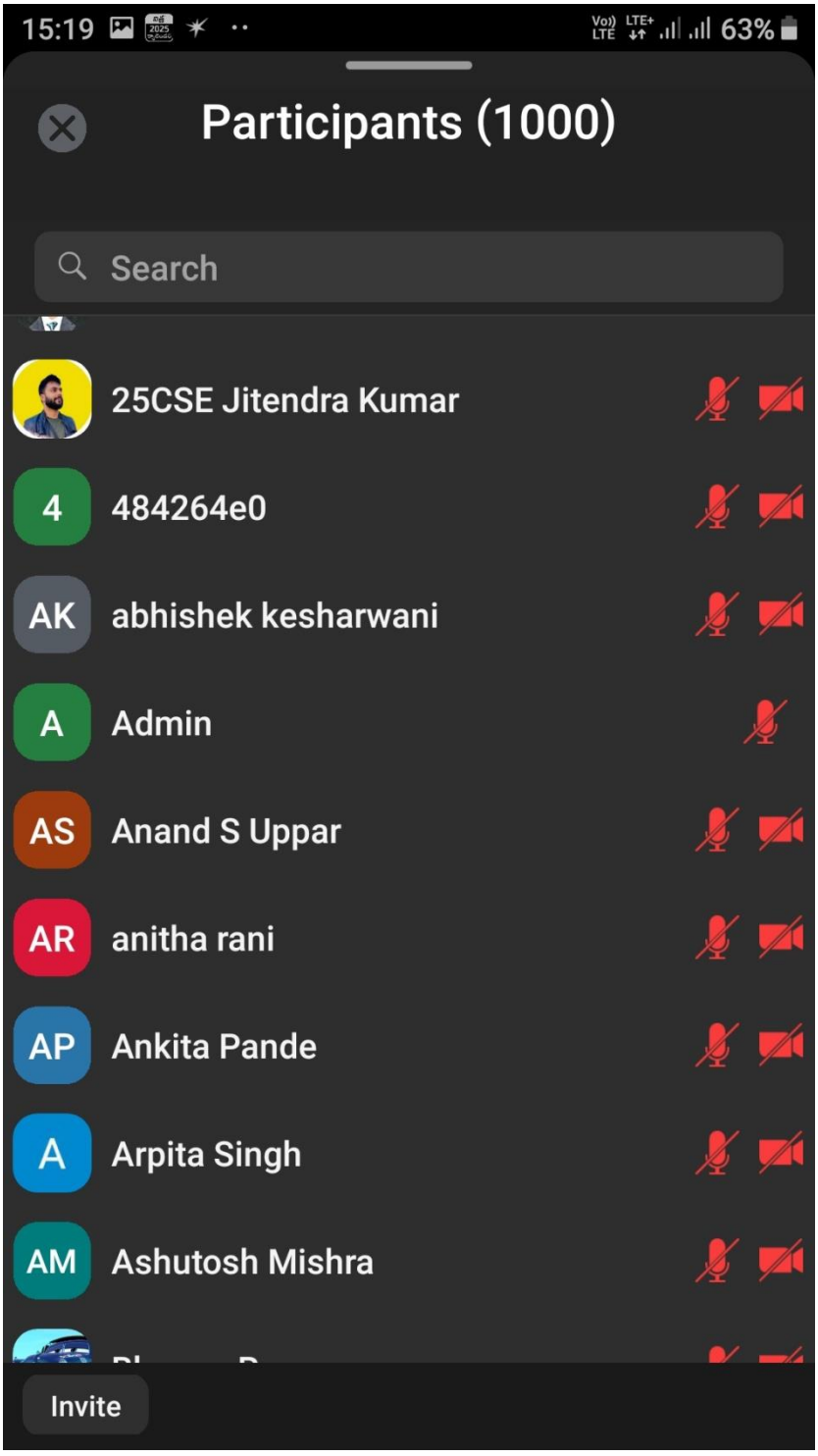


Fig -8 Mr. satish setter is taking practical session on 18th july 2025

OUT COMES:

1. Understanding of Cloud Computing Concepts
    - Learners gain foundational knowledge of cloud computing and its benefits, including scalability, reliability, and cost-effectiveness.
2. Familiarity with AWS Global Infrastructure
    - Students understand the AWS global architecture including Regions**,** Availability Zones (AZs)**,** andEdge Locations**.**
3. Knowledge of Core AWS Services
    - Ability to describe and use key services such as:
        - **Amazon EC2** (Elastic Compute Cloud)
        - **Amazon S3** (Simple Storage Service)
        - **Amazon RDS** (Relational Database Service)
        - **AWS IAM** (Identity and Access Management)
4. Hands-on Skills with AWS Console
    - Learners become capable of launching, configuring, and managing AWS services through the AWS Management Console **and** CLI (Command Line Interface)**.**
5. Security and Identity Best Practices
6. Resource Deployment and Monitoring
7. Ability to Design Simple Cloud Architectures

Attendance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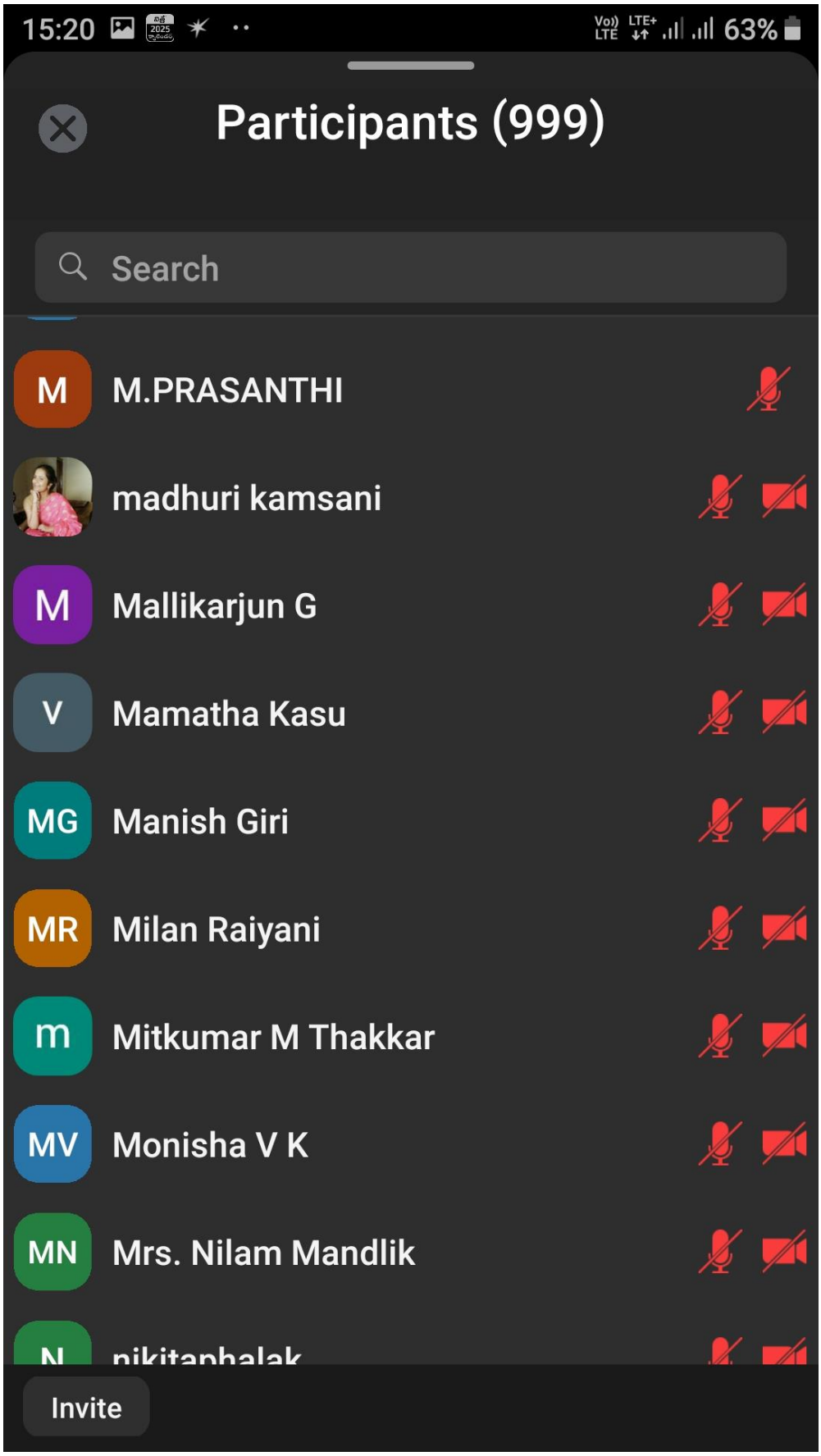
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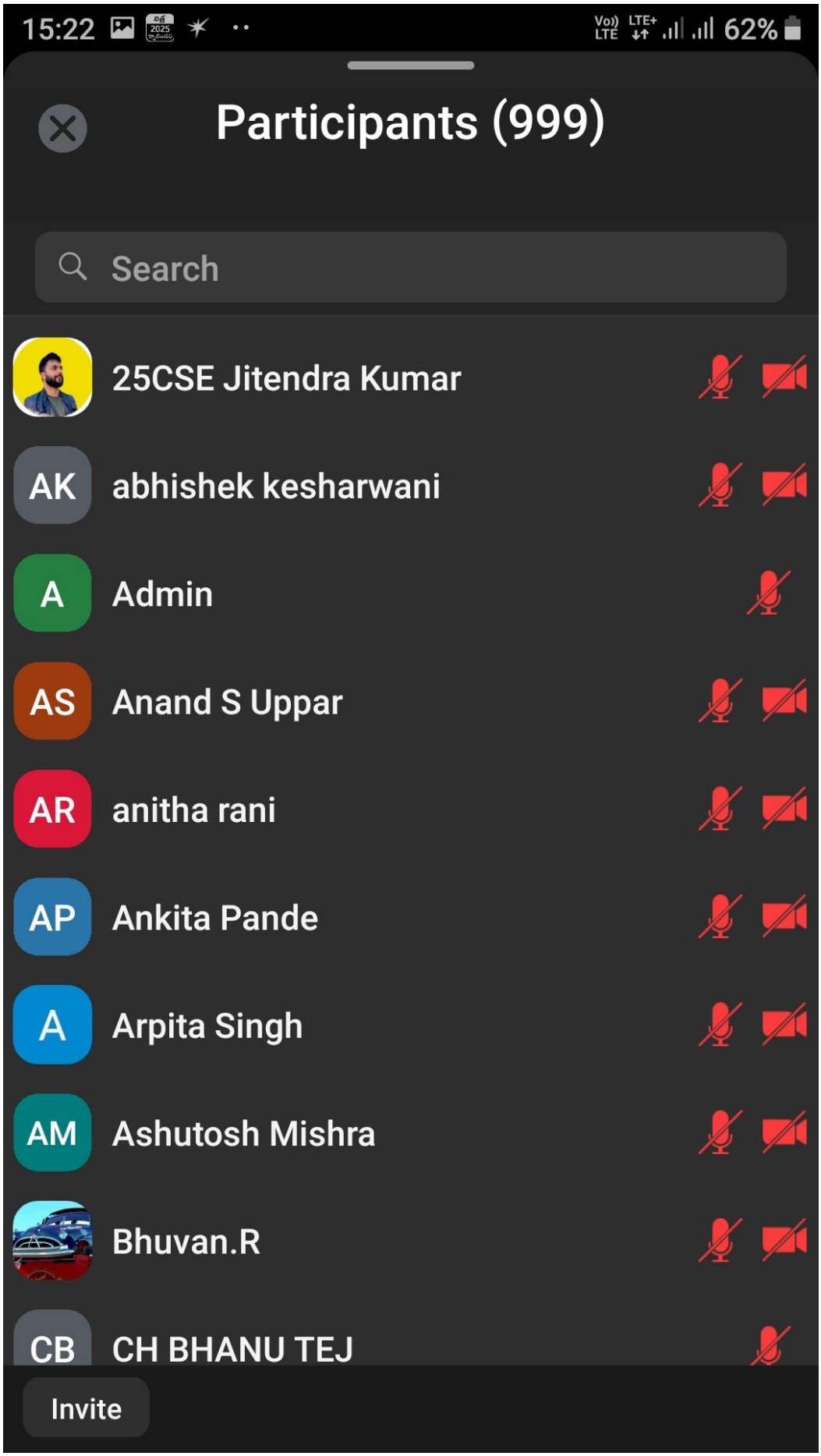
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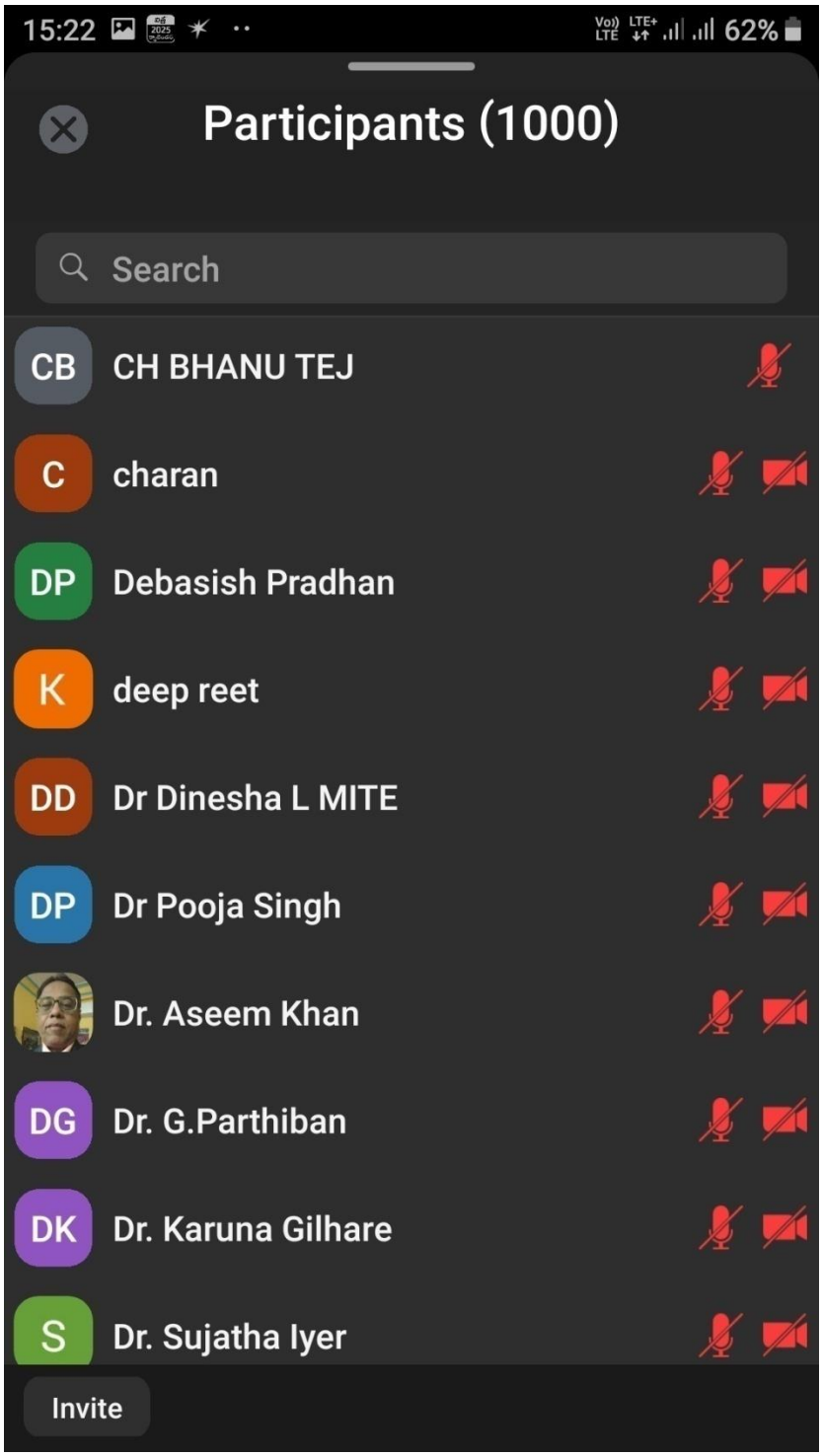
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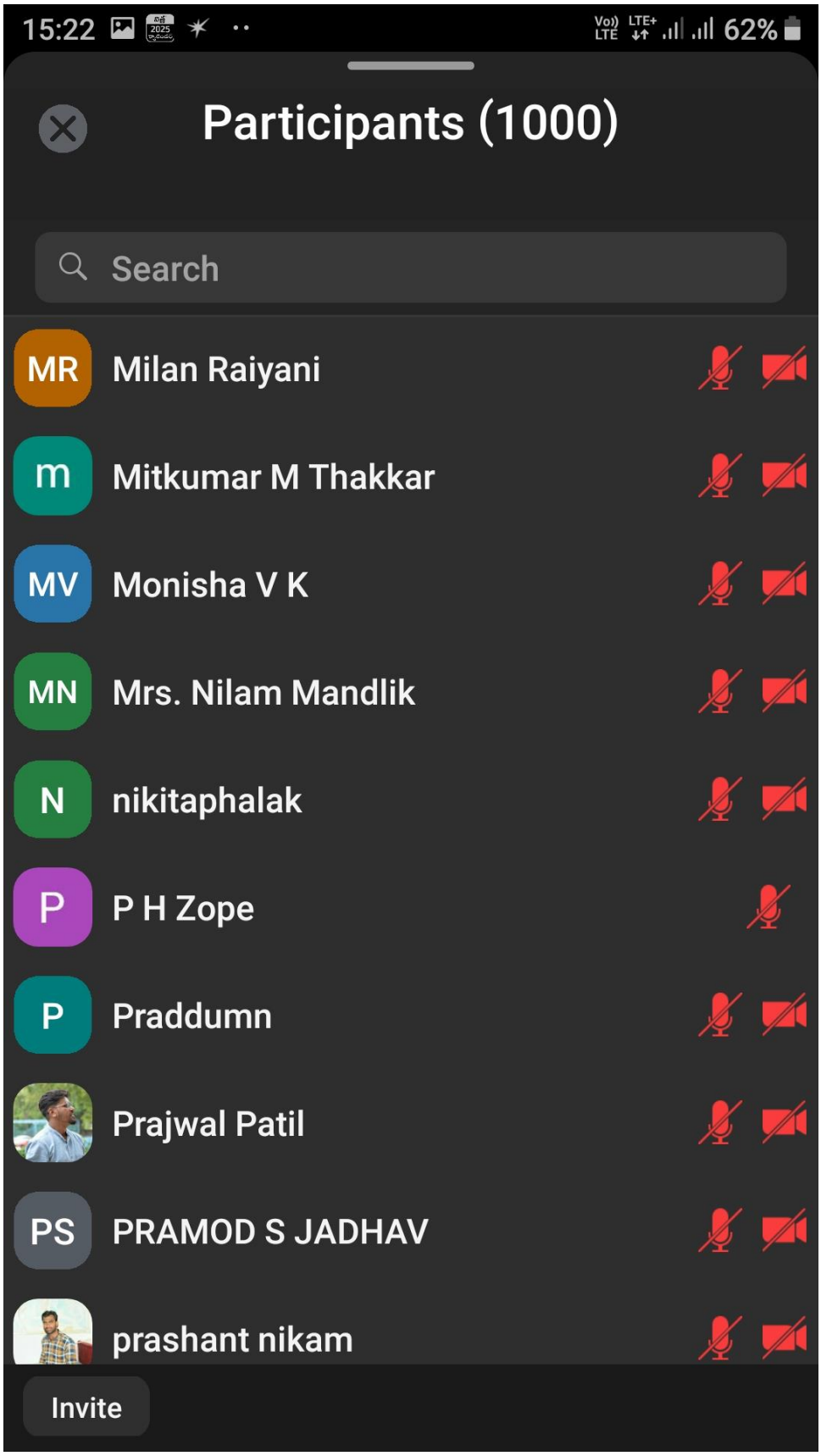
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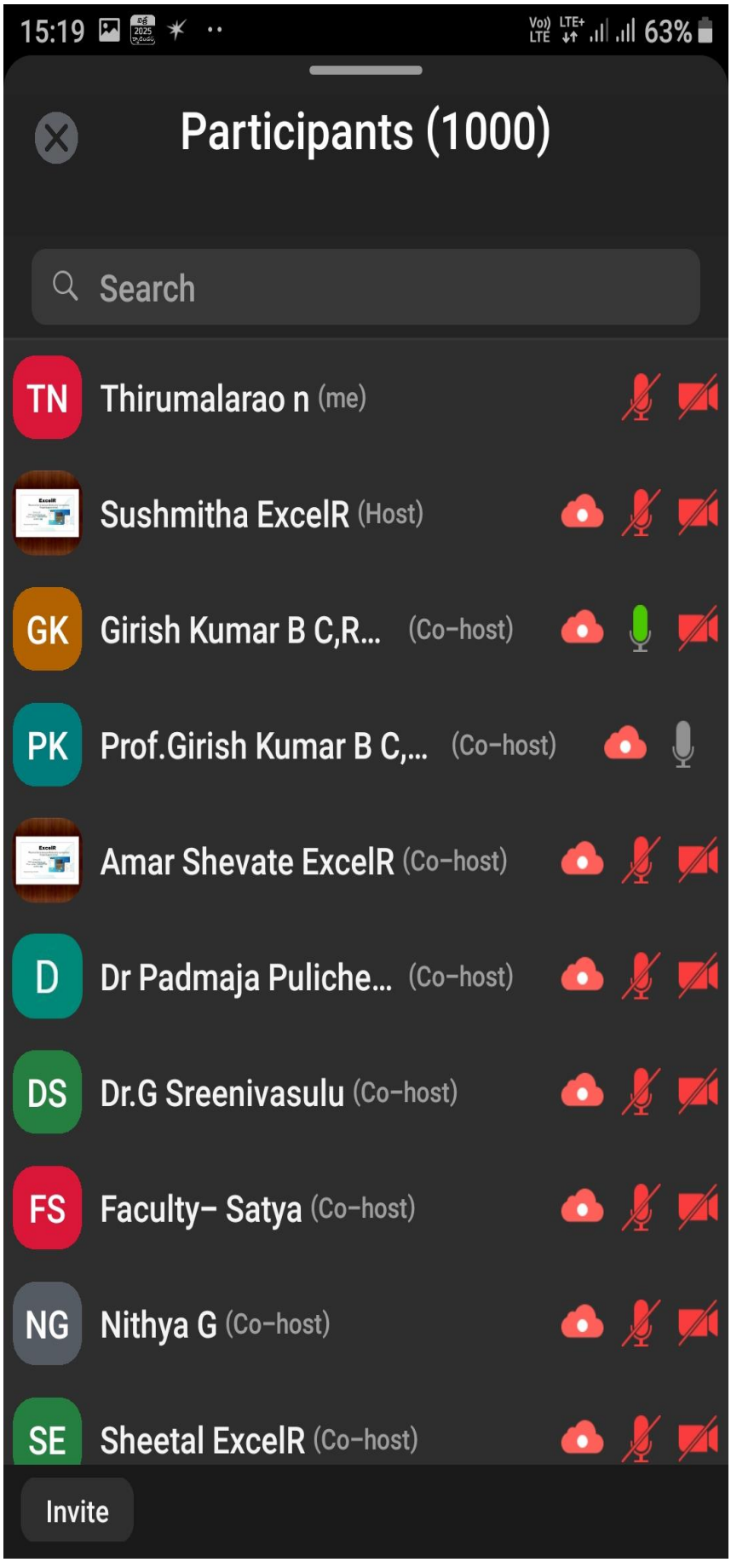
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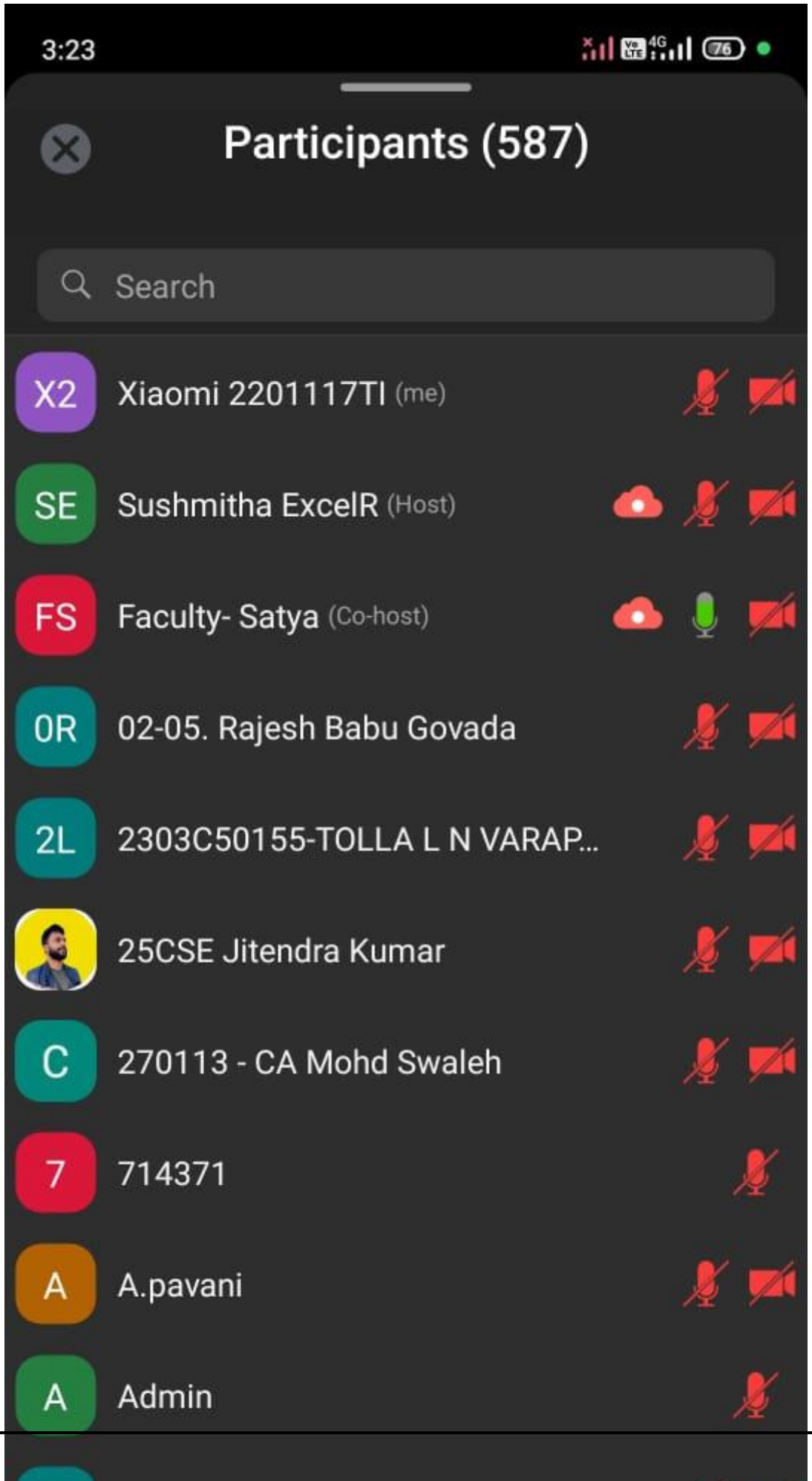
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