



AWS CLOUD CLUB- MIT ADTU



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# STUDENT SYMPOSIUM PUNE 2023



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3 NOVEMBER 2023

## REGISTRATION AND NETWORKING

The AWS Cloud Club at MIT ADTU organized an enlightening Student Symposium on November 03, 2023. This event brought together student cloud community enthusiasts and industry professionals, to delve into the latest developments in AWS cloud technology.

The day was filled with informative sessions, hands-on workshops, and discussions, which fostered a community of cloud technology enthusiasts. The event laid out new experiences and learning opportunities for everyone.



**Date:** 3rd November, 2023

**Time:** 9 AM to 5 PM

**Venue:** 6th-floor Auditorium,  
IT Establishment Building,  
MIT ADT University



The day began with the registration and networking session. Attendees gathered at the venue and seized the opportunity to connect with other cloud enthusiasts.

This segment of the AWS Cloud Club Student Symposium in Pune 2023 was a seamless and engaging experience for participants. The check-in process was streamlined, ensuring quick ID Card collection and a warm welcome which set up an enthusiastic tone for the event. 260+ students attended it onsite.

Registration and Networking were followed by a fulfilling breakfast preparing for the exciting sessions for the day.

## INAUGURATION AND WELCOME CEREMONY

Following the networking session, the event officially commenced with an inauguration and welcome ceremony. Our esteemed guests Dheeraj Choudhary Sir, AWS Hero, Vishal Alhat Sir, AWS Community Builder, Ajinkya Chavan Sir, Specialist, AWS, Anshika Gupta, TAM, AWS, Prof. Dr. Sunita Karad Ma'am, Director ICT, MIT ADTU, Prof. Dr. Ramchandra Pujeri Sir, Dean, Prof. Dr. Rajneeshkaur Sachdeo Ma'am, Director, Prof. Dr. Ganesh Pathak Sir, HOD CSE, Prof. Dr. Shraddha Phansalkar Ma'am, HOD CSE, Prof. Dr. Rekha Sugandhi Ma'am, HOD, IT.

Guests lit the traditional 'Samayi,' signifying the beginning of the symposium and symbolizing the enlightening journey ahead. World Peace Prayer was recited to begin the wonderful day ahead.

Our anchors for the day- Kritika and Deepak took over the stage to welcome our guests and dignitaries. They introduced all the speakers of the Day and made the audience aware of the Agenda of the Day.





## KEYNOTE SESSION 1: TRACY WANG, GLOBAL STUDENT COMMUNITY MANAGER, AWS

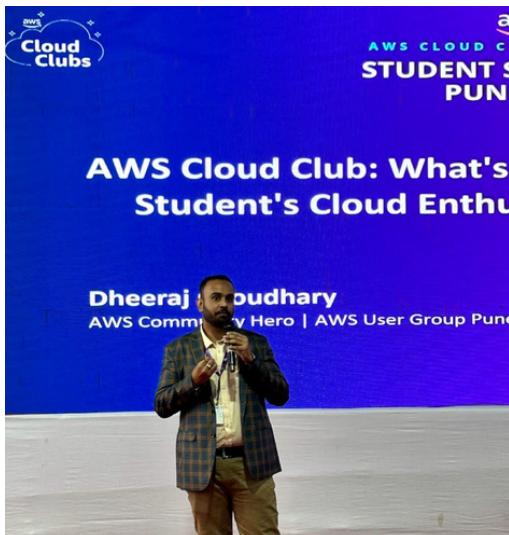
Tracy Wang's keynote session was a significant highlight of the AWS Cloud Club Student Symposium, offering attendees valuable insights into AWS Academic Advocacy, AWS Cloud Clubs, and its global outreach. Her session covered a wide range of topics:

- **Introduction to AWS Academic Advocacy:** Tracy Wang commenced her session by providing an overview of AWS Academic Advocacy. She explained its mission, objectives, and the impact it has on the educational community. Attendees learned how AWS is committed to supporting academic institutions and fostering innovation.
- **Worldwide AWS Cloud Clubs:** Tracy highlighted the extensive reach of AWS Academic Advocacy, with AWS Cloud Clubs operating globally. She shared impressive statistics, indicating the sheer scale of this network, which includes 74 groups with over 10,000 members. This showcased the widespread interest and participation in AWS technologies within the academic community.

- **India AWS Cloud Clubs:** India's AWS Cloud Clubs are led by 15 captains and encompass 13 individual clubs, demonstrating the significant role that India plays in the AWS educational ecosystem. Tracy also highlighted that our Captain Sankalp is one of 50 selected captains out of 2000+ applications back in March 2023.
- **Focus on Content, Community, and Events:** Tracy elaborated on the core pillars of AWS Academic Advocacy, which include a strong emphasis on content creation, community building, and organizing events. She stressed how these components are instrumental in supporting educational institutions and students in their AWS learning journeys.
- **The Way of the Cloud Club:** Tracy discussed the vision and mission of Cloud Clubs and how they serve as hubs for AWS student enthusiasts to connect, learn, and innovate. Attendees gained a clear understanding of the significance of these clubs.
- **Captain Swag and Clubs Swag Package:** Tracy concluded her session by revealing the rewards and recognition offered to Cloud Club captains through the "Captain Swag." She also touched on the support and resources provided to Cloud Clubs through the "Clubs Swag Package." This segment showcased the appreciation and incentives provided to individuals and clubs actively participating in the AWS Academic Advocacy program.

Tracy Wang's keynote session not only provided valuable information about AWS Academic Advocacy but also inspired attendees to engage with the program and join the global community of AWS enthusiasts. Her insights into the AWS Cloud Club Program and the support provided to clubs and captains underscored the commitment of AWS to nurturing talent and fostering innovation in the academic sphere.





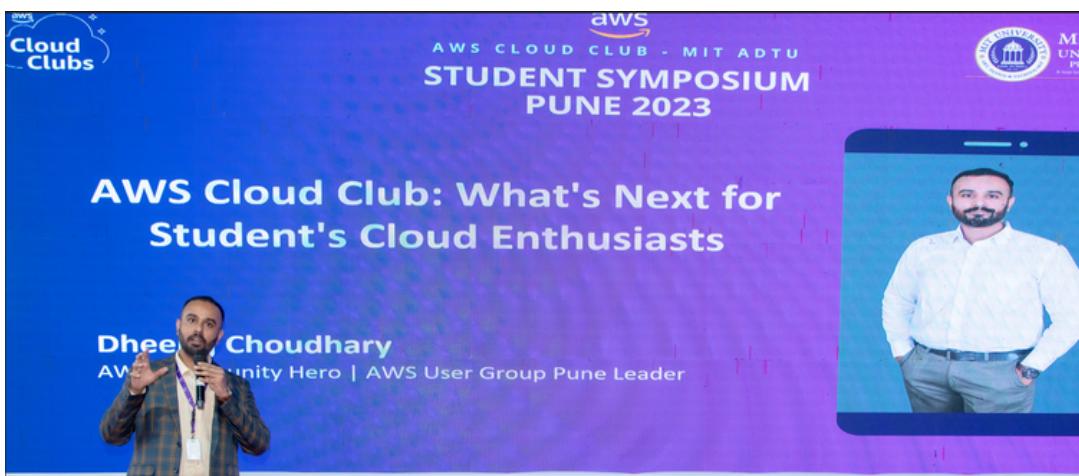
## KEYNOTE SESSION 2: DHEERAJ CHOUDHARY, AWS HERO

Dheeraj Choudhary Sir, AWS Community Hero, took the stage for the second keynote session. His session covered a range of essential topics:

**AWS Community and Its Profound Impact:** Dheeraj Sir emphasized the role of the AWS Community and the significant impact it has on students and cloud enthusiasts. He emphasized the AWS Cloud Club is a great community program for the students.

**Looking to the Future:** He discussed the exciting prospects and opportunities that lie ahead for students and cloud enthusiasts in the AWS Cloud Club.

Dheeraj Choudhary Sir's keynote session not only inspired attendees to actively engage with the AWS Cloud Club but also offered a glimpse into the vast potential for students and cloud enthusiasts in the AWS ecosystem. This keynote encouraged attendees to be part of a dynamic and ever-evolving community committed to cloud technology and innovation.





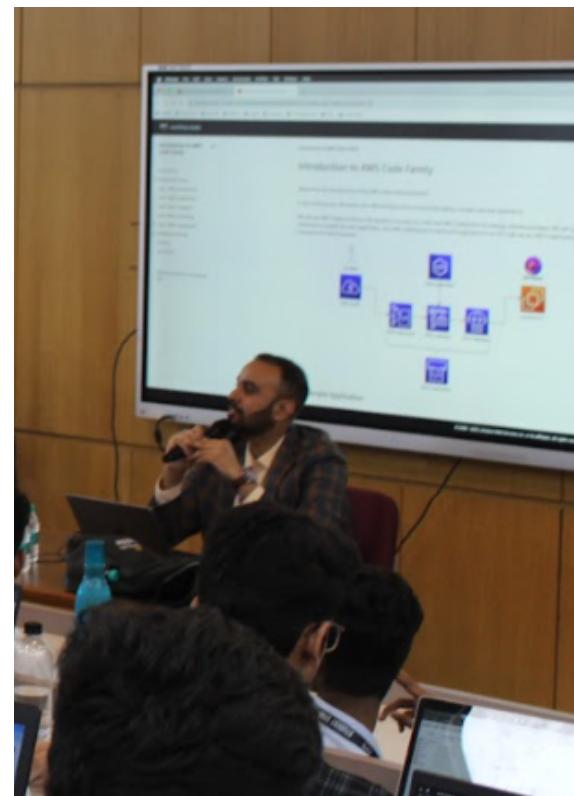
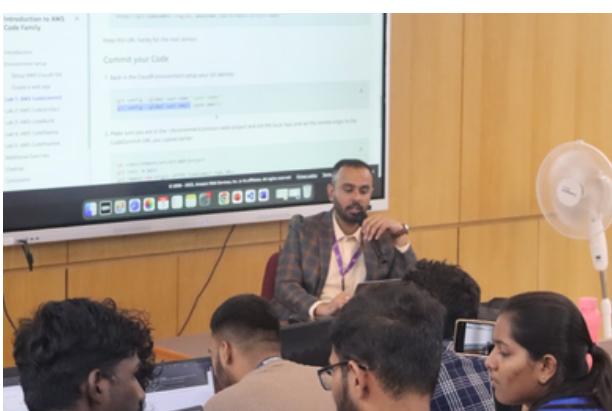
## TRACK 1: HANDS-ON WORKSHOP ON AWS DEVOPS BY DHEERAJ CHOUDHARY

Our Expert Speaker, Dheeraj Choudhary took the lead in Track 1, diving deep into AWS DevOps services and providing students with invaluable insights into this dynamic field.

The workshop's highlights were as follows:

**Introduction to AWS DevOps Services:**  
 Dheeraj Sir commenced the session with a comprehensive introduction to AWS DevOps services. This introductory segment aimed to create a foundational understanding of how these services work in tandem to streamline the DevOps processes, setting the stage for a deeper exploration.

**AWS Codecommit** - This serves as a code repository. Attendees were introduced to the critical role of Codecommit in version control and collaborative coding.



**AWS Codebuild** - The workshop proceeded to explore AWS Codebuild, shedding light on its significance in automating the build processes.

**AWS CodeDeploy** - The next topic covered was AWS CodeDeploy, a service that automates code deployment to various AWS instances.

**CodeArtifact and CodePipeline** - The session wrapped up by discussing the roles of AWS CodeArtifact and AWS CodePipeline in orchestrating the DevOps workflow and managing artifacts.

By the end of the workshop, students gained a comprehensive understanding of AWS DevOps services and their essential roles in the DevOps lifecycle, empowering them to explore DevOps practices on AWS with confidence.



## TRACK 2: HANDS-ON WORKSHOP ON SECURING AWS WITH ZERO TRUST: BY VISHAL ALHAT

Vishal Sir kicked off Track 2 by providing an introduction to the workshop's focus on AWS security. He highlighted the importance of robust security measures, especially in the cloud environment.

Zero trust security is a model that assumes that threats may exist both outside and inside a network. Instead of trusting entities based on their location, it does identity-based verification.

**Sensitive Information Security (How Crawlers Attack?):** Next, the tactics used by malicious crawlers to exploit vulnerabilities and access sensitive information within AWS environments.



**AWS Management Console Hands:** In this hands-on workshop, Vishal Sir guided attendees through the AWS Management Console, offering practical insights into essential security configurations and best practices. The topics covered included:

- Multi-factor authentication (MFA) setup for enhanced account security.
- Security measures for EC2 instances.
- Data security for Amazon S3.
- API keys and Key Management Service (KMS).
- Shared responsibility model
- Security considerations for data centers.
- Configuring CloudTrail for enhanced auditability.
- Data encryption in Elastic Block Store (EBS) volumes.
- Best practices for securing storage services.

## SANKALP'S EXPANSION ON ZERO TRUST



Our Captain Sankalp, took the stage to expand on the concept of Zero Trust Security. He discussed the principles, benefits, and implementation of Zero Trust in AWS environments, emphasizing that no entity, whether inside or outside the network, should be trusted by default. Sankalp's session provided valuable insights into enhancing security by adopting a Zero Trust approach.

Vishal Sir's workshop and Sankalp's insights on Zero Trust security collectively offered attendees a comprehensive understanding of AWS security best practices, practical implementations, and the strategies required to safeguard sensitive information and cloud resources effectively.

The Track 2 workshop concluded with a Q&A session, where attendees had the opportunity to clarify doubts and seek further guidance on securing AWS environments.

## PANEL DISCUSSION



### Panelists:

**Ajinkya Chavan**, Specialist (Analytics), Amazon Web Services

**Anshika Gupta**, Technical Accounts Manager, Amazon Web Services

**Dheeraj Chaudhary**, AWS Community Hero, Lead Systems Engineer, EPAM Systems

**Vishal Alhat**, AWS Community Builder, Sr. Software Engineer, Forcepoint Software

**Dr. Rajani Sajjan**, Associate Professor, MIT ADT University

**Sankalp Sandeep Paranjpe**, AWS Cloud Captain

After lunch, everyone gathered together in the auditorium for an enlightening discussion with experts and highly experienced AWS panelists.

The discussion kicked off with an exploration of what ignited the passion for cloud technology in each speaker and how they began their remarkable journeys. They delved into the vital importance of continuous learning and networking in the dynamic field of cloud computing.

The panelists also reflected on their experiences and shared memorable projects that highlight the transformative power of cloud technology and offer invaluable advice for aspiring cloud professionals.



### Moderator: Gurbani Gambhir

Gurbani began the discussion by introducing the panelists to the audience and talking about their achievements as well as past experiences. Her precise questioning allowed the panelists to share their apt experiences and expertise.

## THE R(EVOLUTION) OF GEN-AI BY ANSHIKA GUPTA



Anshika Gupta Ma'am's session on the r(Evolution) of GenAI provided attendees with a deep understanding of the historical context of Generative AI, the importance of Foundation Models, and practical methods to harness their capabilities using prompts. The session also connected these concepts with the available GenAI services within AWS, giving attendees the tools and knowledge to explore this exciting field further.

The session began with a fascinating journey through the history of GenAI, tracing the evolution of artificial intelligence and the milestones that led to the development of Generative AI.

**Understand Foundation Models:** Anshika introduced the concept of Foundation Models, shedding light on their significance in the world of AI. She explained how these models form the core building blocks for various AI applications and laid the groundwork for the discussion on harnessing their potential.

**How to Harness More Out of Foundation Models Using Prompts:** Anshika provided valuable insights into maximizing the utility of Foundation Models by using prompts effectively.

**Quick Overview of Some GenAI Services in AWS:** The session concluded with a quick overview of GenAI services available in AWS. Anshika highlighted the services that enable developers to harness Generative AI, such as Amazon SageMaker, Amazon Bedrock, etc.

## BUILDING AI SEARCH USING PGVECTOR AND AMAZON SAGEMAKER BY AJINKYA CHAVAN



Ajinkya Chavan Sir's session on Building AI-powered similarity search in Amazon RDS PostgreSQL using pgvector and Amazon SageMaker provided attendees with a comprehensive overview of Amazon Sagemaker. Students learnt the fundamental principles of search, discovered its wide-ranging applications, and understood the role of vector databases in enhancing search capabilities.

**What is Search?:** The session began by exploring the fundamental concept of search.

**Typical Use Case:** In this segment, Ajinkya Sir discussed typical use cases for AI-powered similarity searches. He explained how similarity search is employed in real-world scenarios and the benefits it offers. Use cases such as recommendation systems, image search, and content discovery were highlighted to illustrate their practical applications.

**Vector Databases:** Ajinkya Sir, introduced the concept of vector databases and their relevance in AI-powered similarity search. He explained how vector databases enable efficient storage and retrieval of vectorized data, a critical component in similarity search systems.

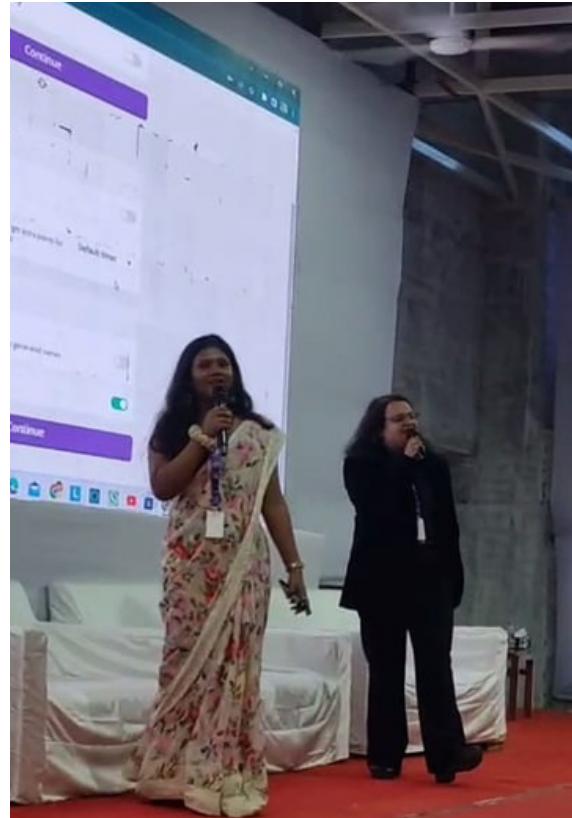
**A Sample Application:** The session concluded with a demonstration of a sample application that utilizes AI-powered similarity search in Amazon RDS PostgreSQL using pgvector and Amazon SageMaker. Ajinkya Sir walked attendees through a practical example, showcasing how to implement ai-search in a real-world scenario.

## QUIZ AND PRIZE DISTRIBUTION

Following the informative and engaging sessions throughout the day, attendees had the opportunity to test their knowledge and critical thinking skills in a quiz session.

The quiz featured questions related to AWS topics discussed during the symposium. Participants enthusiastically took part in the quiz, showcasing their understanding of the subjects.

The quiz session not only added an element of fun and friendly competition to the event but also served as an effective way to reinforce the knowledge shared during the symposium.



The engaging quiz was carefully moderated and hosted by Kritika Srivastava alongside Gurbani Gambhir where participants put their cloud knowledge to the test. It was inspiring to witness the enthusiasm and eagerness to learn from all the participants.

After the quiz, the moment attendees had been waiting for arrived—the prize distribution. The top performers in the quiz were recognized and awarded with prizes. The prize distribution ceremony was met with applause and excitement as participants were acknowledged for their achievements.

## CLOSING CEREMONY AND GOODIES DISTRIBUTION



The AWS Cloud Club Student Symposium concluded with a heartfelt closing ceremony that marked the end of an enriching and informative day. During this ceremony, Sankalp, our Captain expressed their gratitude to the MIT ADT University, AWS Academic Advocacy Team, Speakers, Attendees, and everyone who contributed to the success of the event. He highlighted the importance of such gatherings in promoting knowledge sharing and collaboration within the AWS and cloud computing community.

The closing ceremony provided an opportunity for attendees to reflect on the insights gained, the connections made, and the valuable takeaways from the symposium. It was a moment of unity and shared appreciation for the collective effort that went into making the event a success.

Goodies were distributed to all attendees. These goodies served as a reminder of the event and included items such as event-branded merchandise, stickers, and other memorabilia.

Thank you,  
Warm Regards  
Team AWS Cloud Club - MIT ADTU



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