

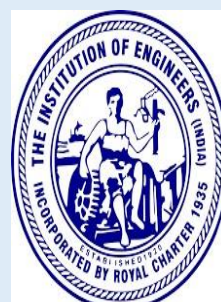


Apollonius
An AI Think Tank Company



2nd
International Faculty Development Programme On
Artificial Intelligence & Data Governance

EXECUTIVE REPORT



Jan 3rd to 8th 2024 In Hybrid Mode

Theme of FDP On AI 2024

**Data Governance
&
Responsible AI**

Topics Covered

Data Governance

MLOps

**Generative AI &
LLMOps**

Neuro Symbolic AI

AI Fairness

NLP In Healthcare

Prompt Engineering

Computer Vision

HPC

Explainable AI

Responsible AI

Analytics to AI

Emminent Speakers for the Programme

1. Souva Majumder (Apollonius) Data Governance & MLOps
2. Dr. Manjira Sinha (TCS Research) Neuro symbolic AI & Knowledge Graph
3. Dr. Tirthankar Dasgupta (TCS Research) NLP for Healthcare
4. Dr. Ayantika Chatterjee (AICoE, IIT Kharagpur) Responsible & Secure AI
5. Dr. Arnab K Laha (IIM Ahmedabad) Statistics, Analytics & AI
6. Anirban Datta (IEI, Kolkata) AI for Process Industries
7. Dr. Manish Modani (NVIDIA, India) HPC & AI
8. Anushree Bhattacharjee (Apollonius) Prompt Engineering
9. Nijesh Kanjinghat (IBM, Singapore) Generative AI & LLMOps
10. Aditya Bhattacharya (KU Leuven) Explainable Deep Learning
11. Dr. Akrati Saxena (University of Leuven) Algorithmic fairness in AI
12. Dr. Praveen Kumar Pokala (JIO, AICoE) Future of Computer Vision

Executive Report : Key Points

- The Faculty Development Programme was conducted between 3rd Jan to 8th Jan 2024
- There were 13 Sessions In total
- Total 14 Speakers Delivered their Key Note Talks on various contemporary topics for AI
- More than 150 Faculties, researchers & scientists across the nation participated in the 2nd International FDP on AI

Role of Apollonius In the FDP on AI 2024

**Selection of the
Speakers**

**Identifying The
Topics**

**Coordinating with
the Speakers**

**Management of the
Sessions**

**Management of the
Participants**

**Management of the
Entire FDP**

**Experts from
Apollonius
Conducted Sessions**

**Apollonius
Conducted
Workshop**

**Generating Analytics
of the FDP**

5 Pillars of the Programme

**Explainable
AI**

**Data
Governance**

MLOps

**Algorithmic
Fairness**

**Generative
AI**

Our Competencies



Apollonius leverages on Data Governance, MLOps, Security for ML Models, Generative AI & LLM Ops to build future Data Scientists & AI Managers

Expert Programme Coordinator



Souva Majumder

MTech IIT Kharagpur
10 years of Experience in Decision Science, Analytics & AI
Consultant of MLOps & MLSecOps
Director of Apollonius Computational Business Solutions

Anushree Bhattacharjee

MSc Statistics (Gold Medal), MTech (AI)
7 years of Experience in AI & Generative AI
Executive Director of Apollonius Computational Business Solutions



Session Wise Report

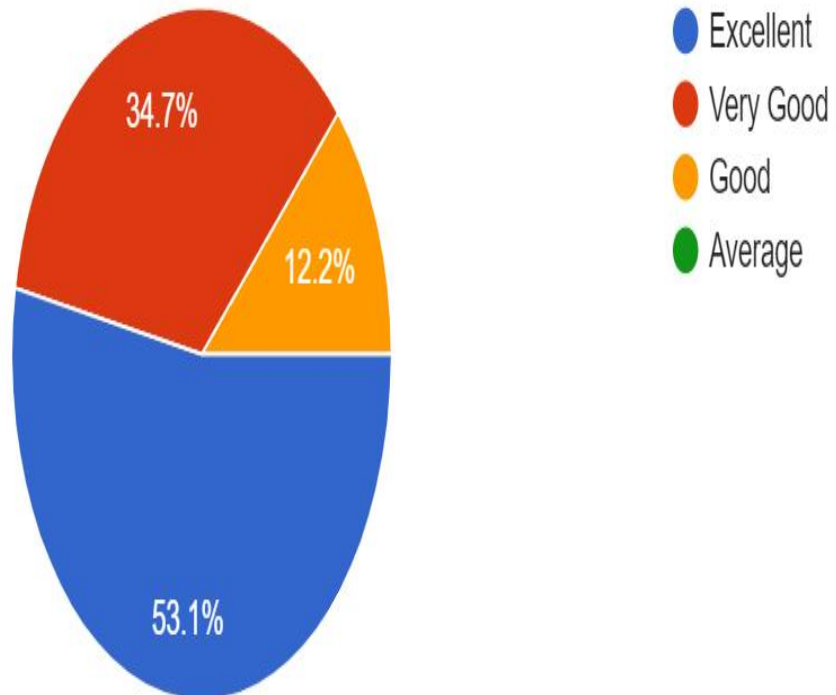


Session 1: Souva Majumder (Apollonius)

Topic : Data Governance & MLOps

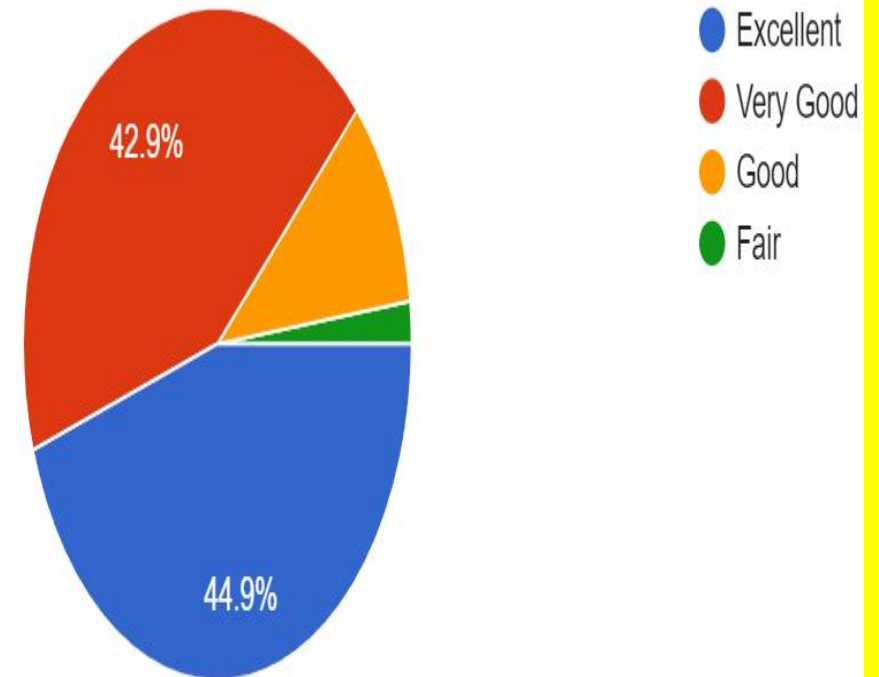
Rating about the Speaker "SOUVA MAJUMDER"

49 responses



Rating About the Topic Covered " Governed MLOps for Scalable AI"

49 responses



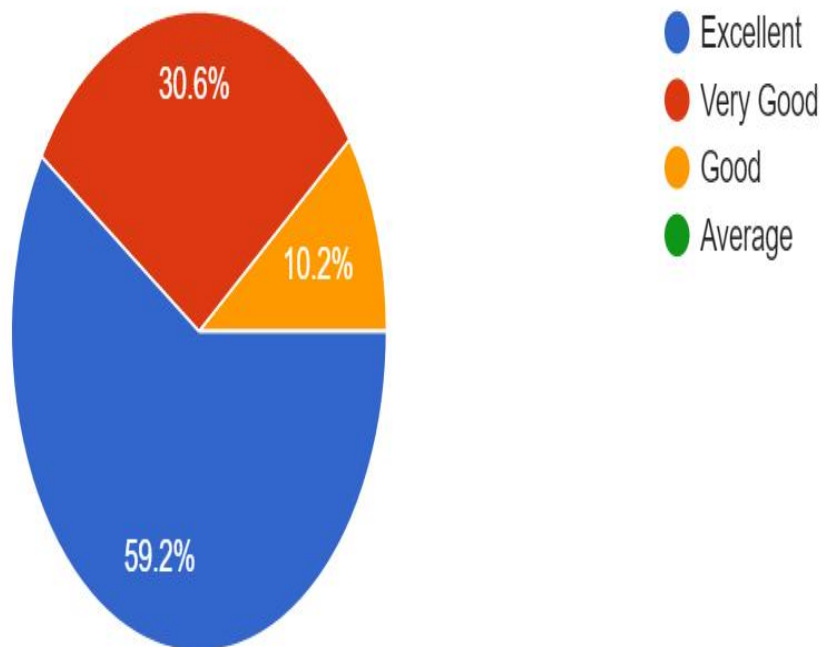


Session 2: Dr. Manjira Sinha & Dr. Tirthankar Dasgupta (TCS Research)

Topic : Unstructured Text Processing for Business

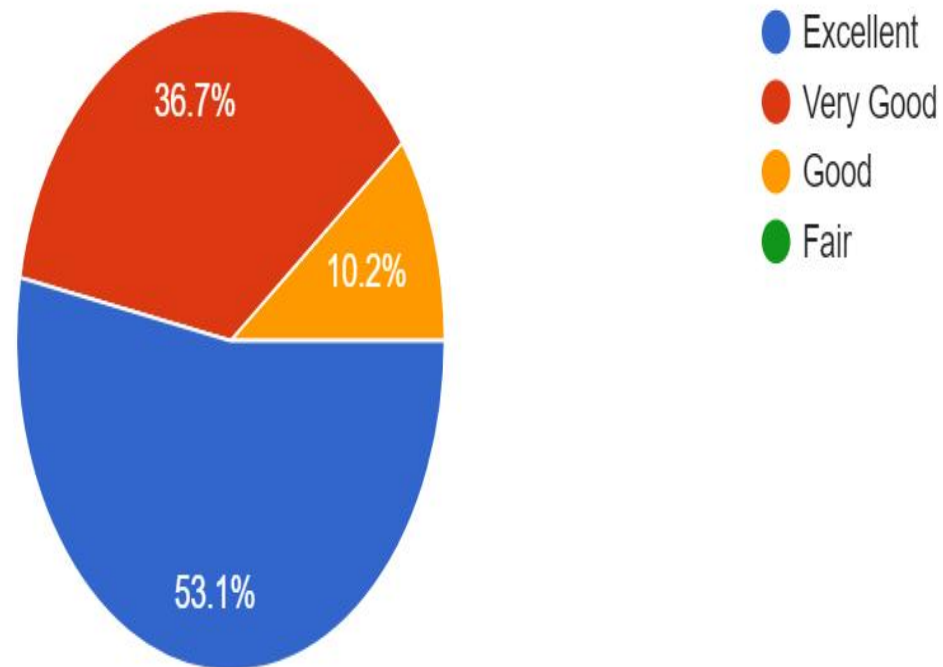
Rating about Dr. Manjira Sinha & Dr. Tirthankar Dasgupta

49 responses



Rating About the Topic Covered

49 responses



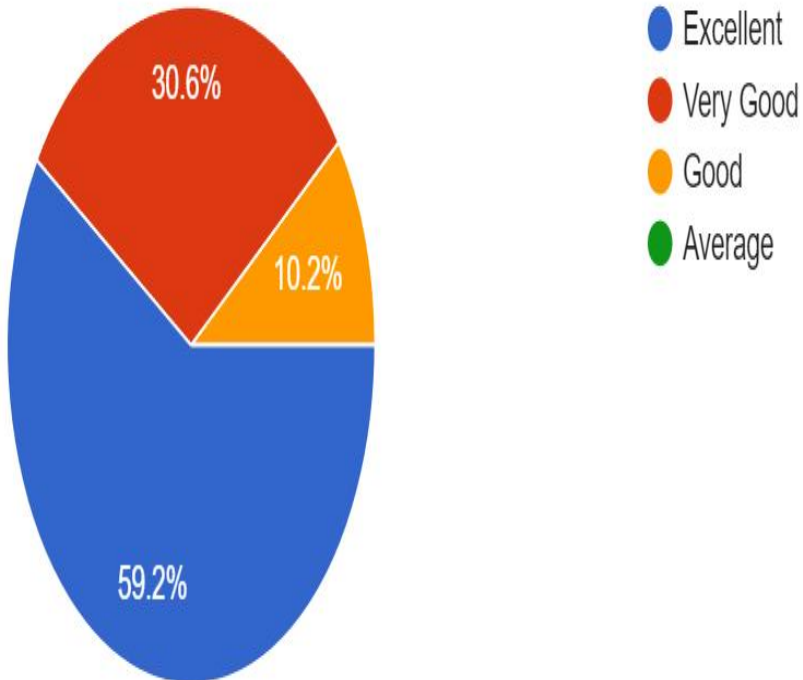


Session 3: Dr. Tirthankar Dasgupta (TCS Research)

Topic : Neuro Symbolic AI

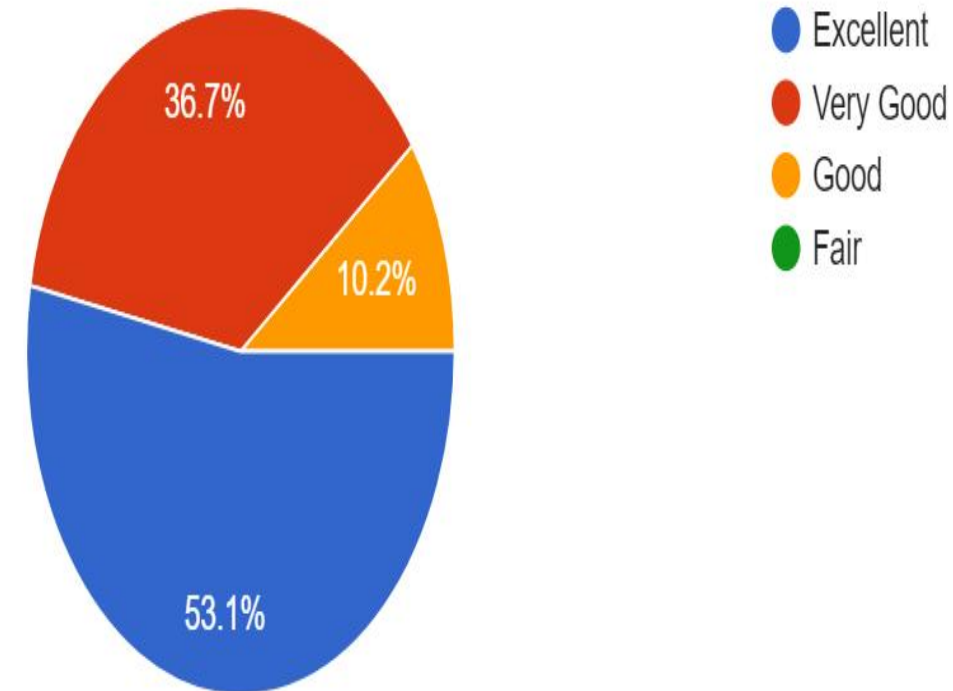
Rating about Dr. Manjira Sinha & Dr. Tirthankar Dasgupta

49 responses



Rating About the Topic Covered

49 responses



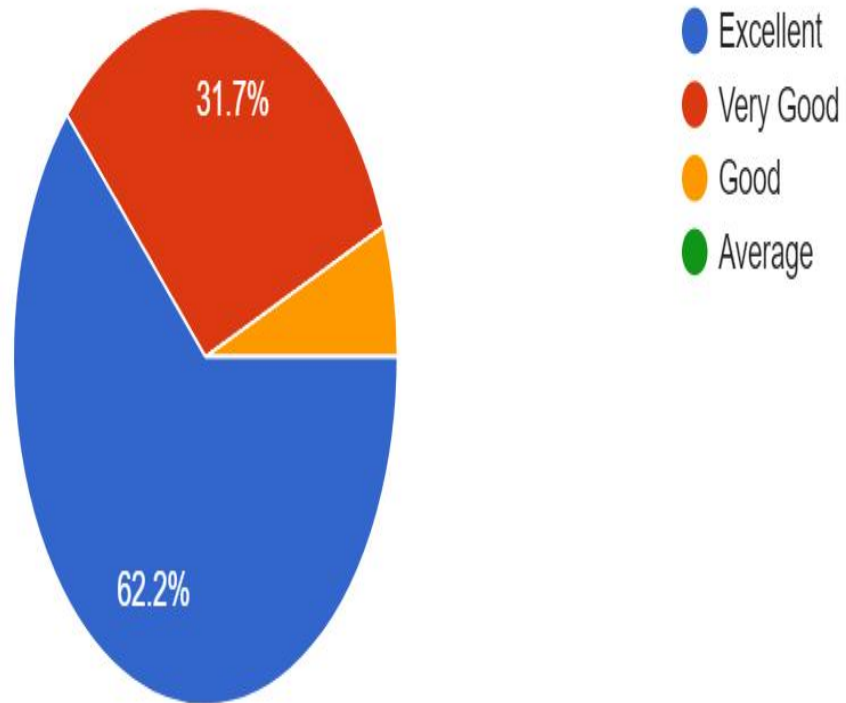


Session 4: Dr. Ayantika Chatterjee (IIT Kharagpur)

Topic : Dependable & Secure AI

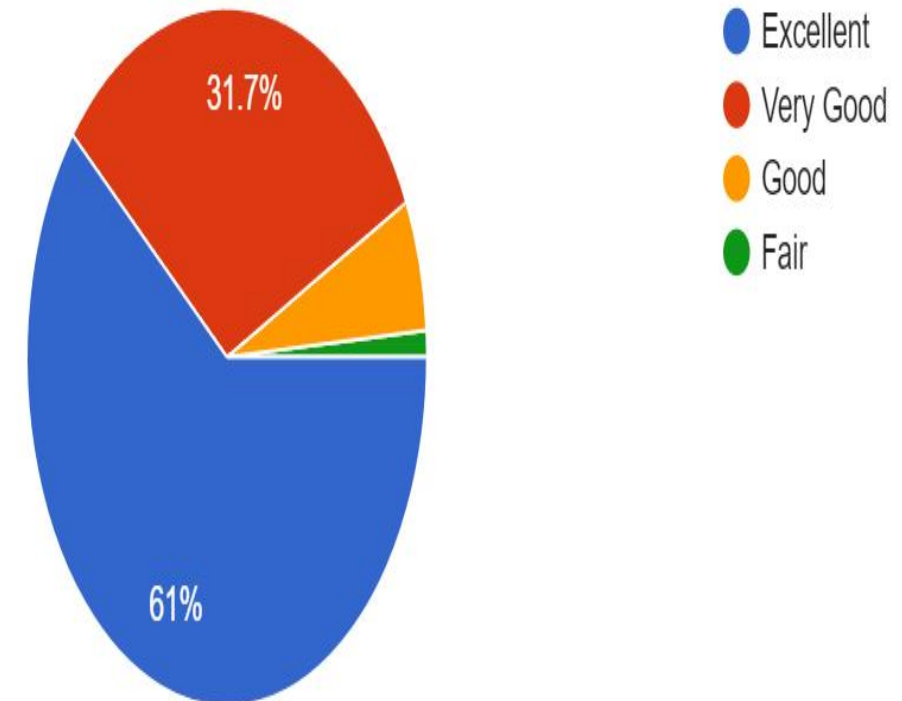
Rating about (Prof. Ayantika Chatterjee)

82 responses



Rating About the Topic Covered

82 responses



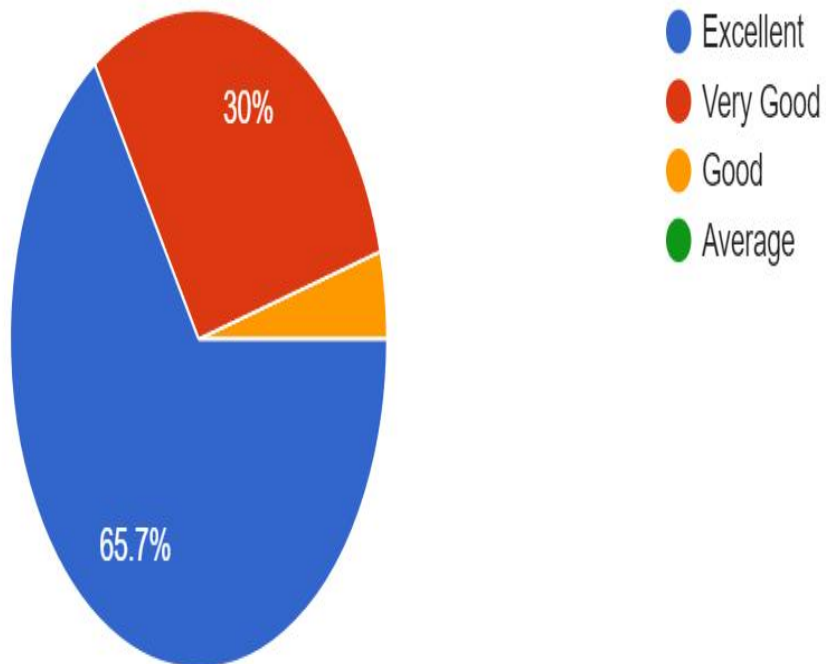


Session 5: Prof. Arnab K Laha (IIM Ahmedabad)

Topic : AI & US

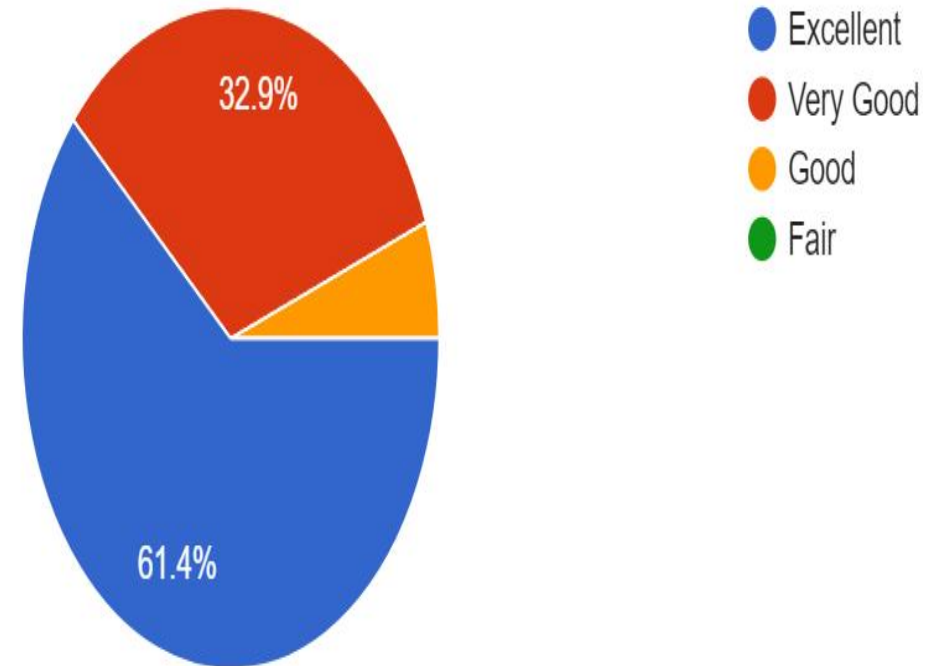
Rating about Prof. Arnab K Laha

70 responses



Rating About the Topic Covered

70 responses



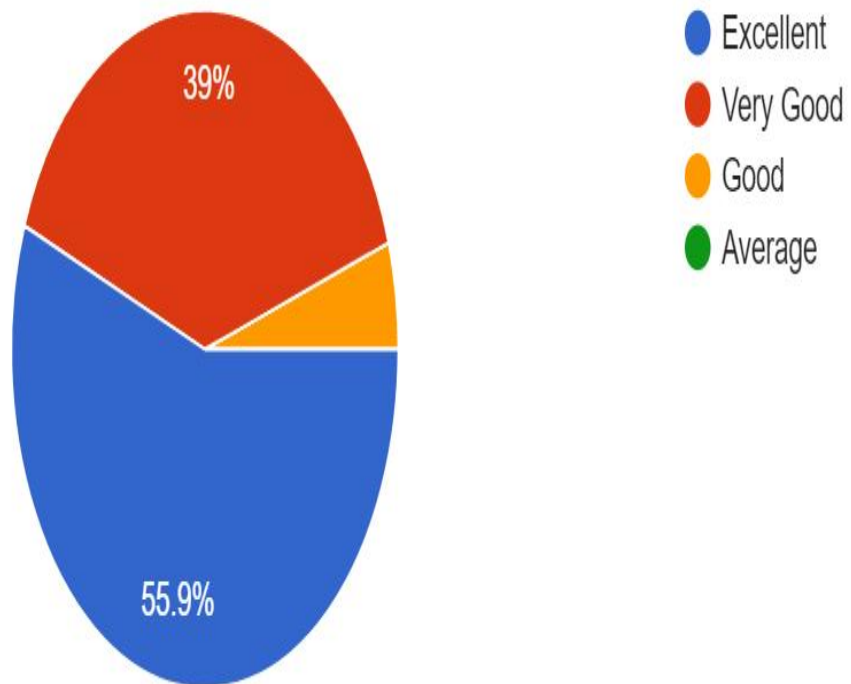


Session 6: Mr. Anirban Datta (IEI, Kolkata)

Topic : AI for Process Industries

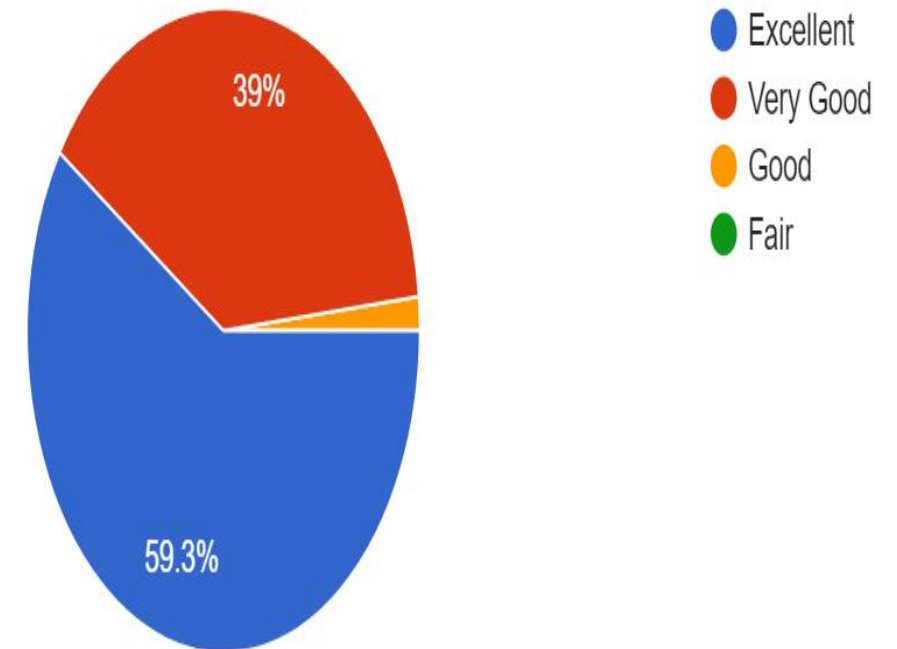
Rating about (Mr. Arnab Datta)

59 responses



Rating About the Topic Covered

59 responses



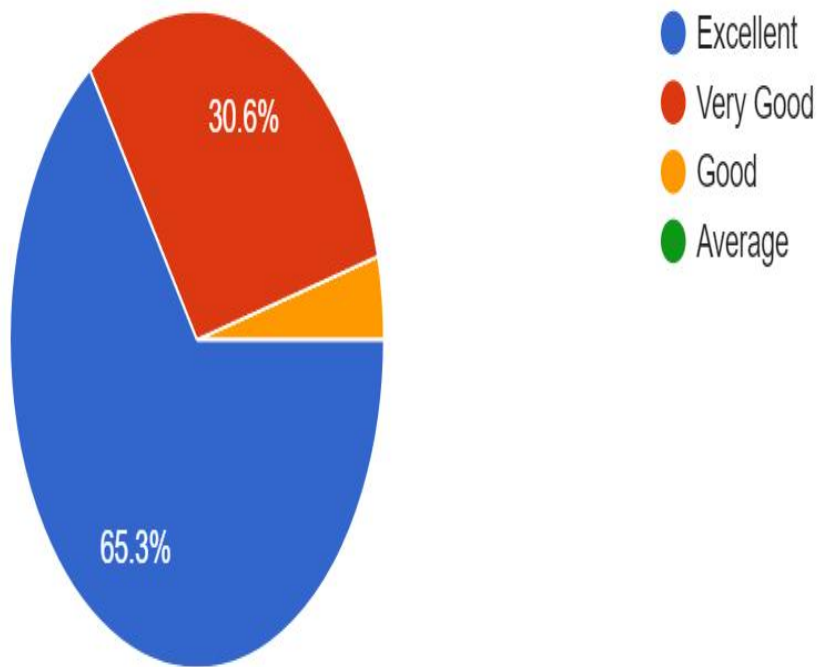


Session 7: Dr. Manish Modani (NVIDIA, India)

Topic : HPC for AI

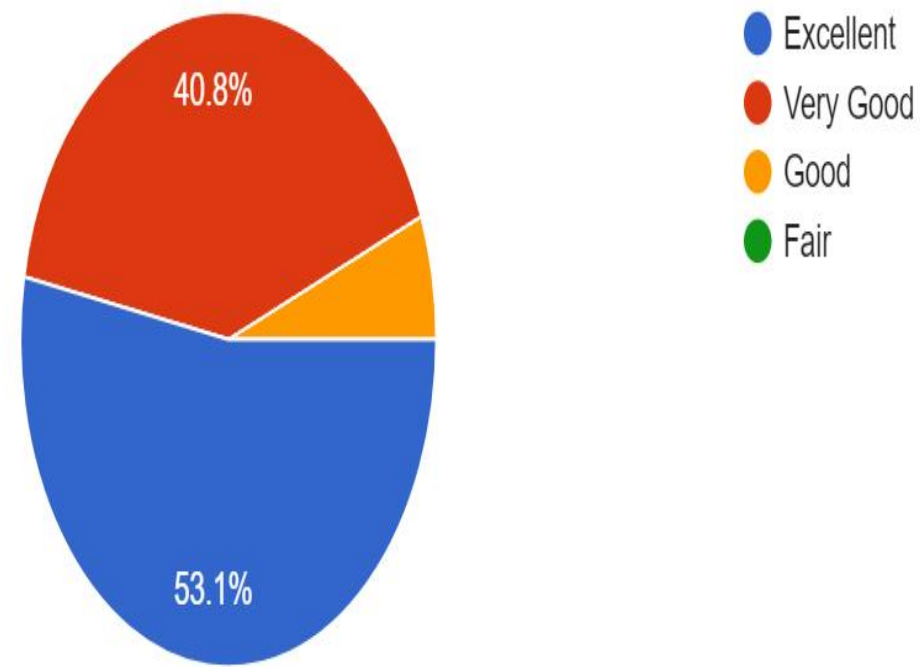
Rating about (Dr. Manish Modani)

49 responses



Rating About the Topic Covered

49 responses



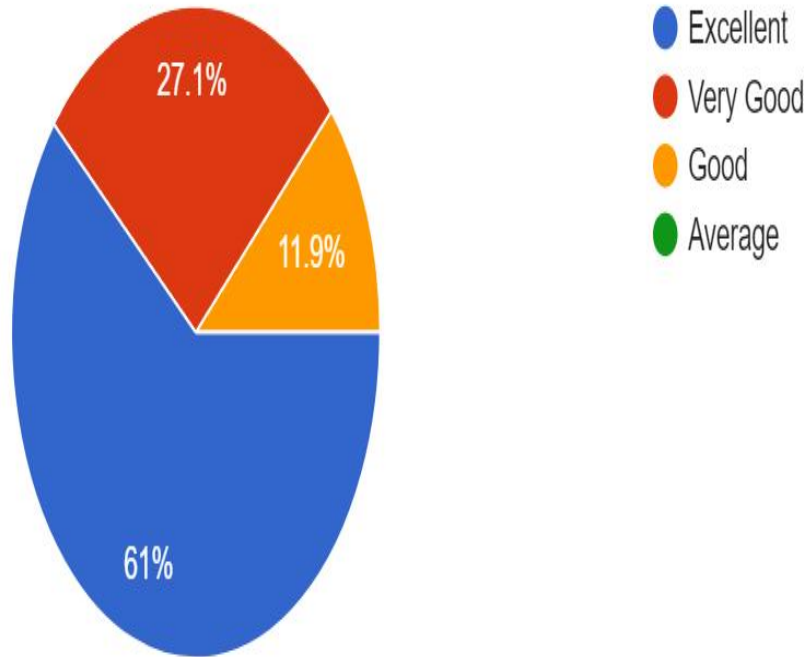


Session 8: Anushree Bhattacharjee (Apollonius)

Topic : Prompt Engineering for Gen AI

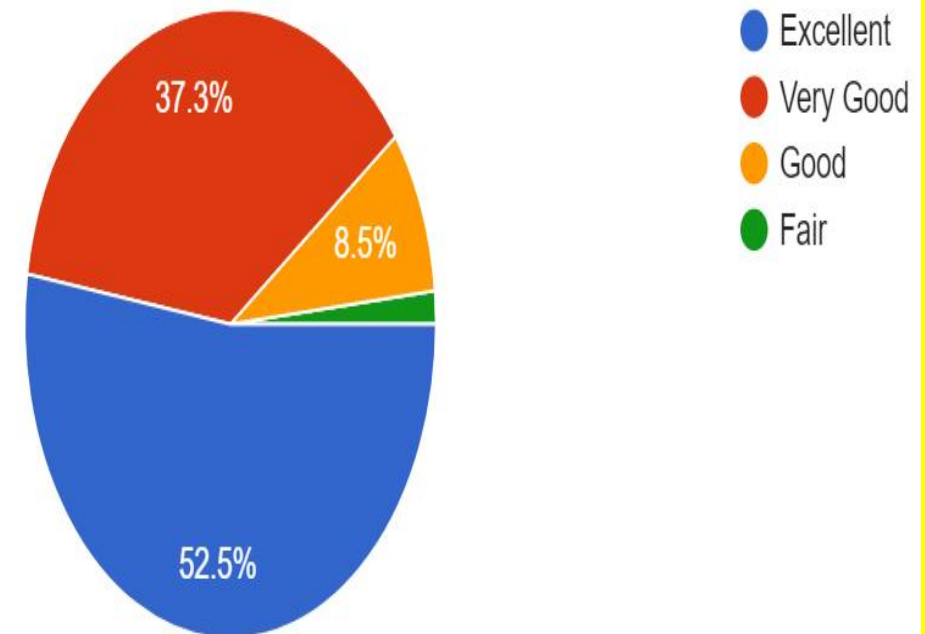
Rating about (Anushree Bhattacharjee)

59 responses



Rating About the Topic Covered

59 responses



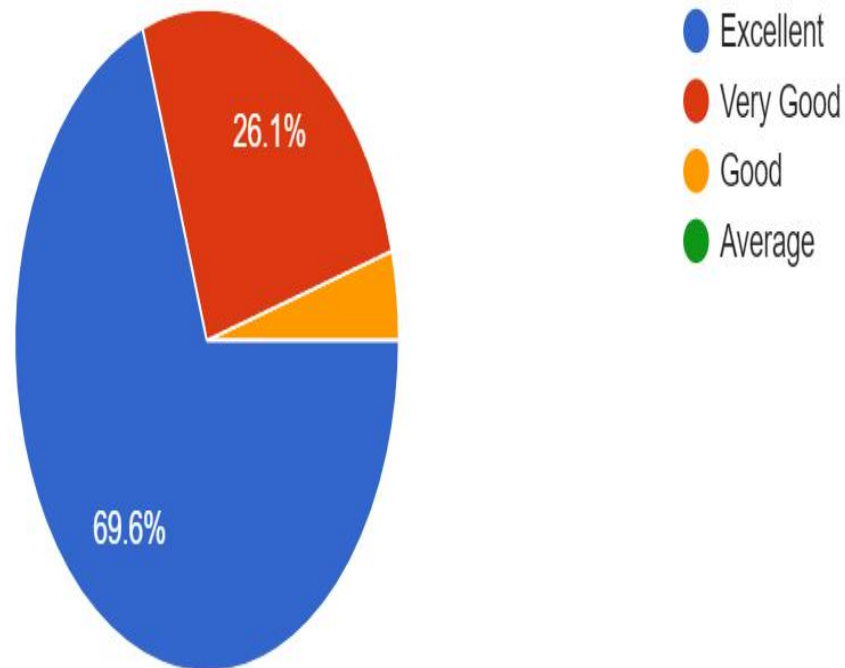


Session 9: Nijesh Kanjingham (IBM Singapore)

Topic : Generative AI & LLMOps

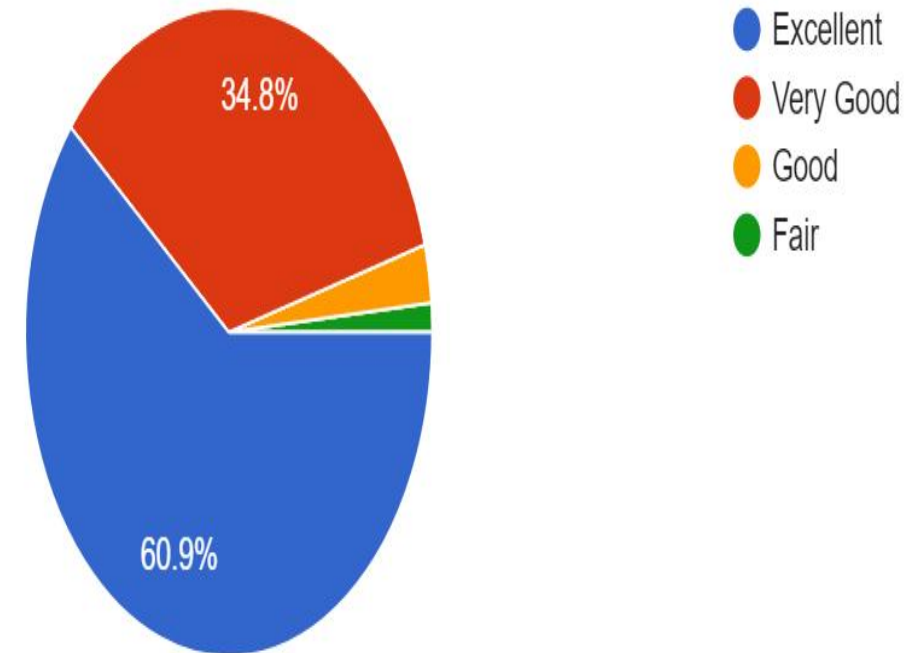
Rating about (Mr Nijesh Kanjingham)

69 responses



Rating About the Topic Covered

69 responses



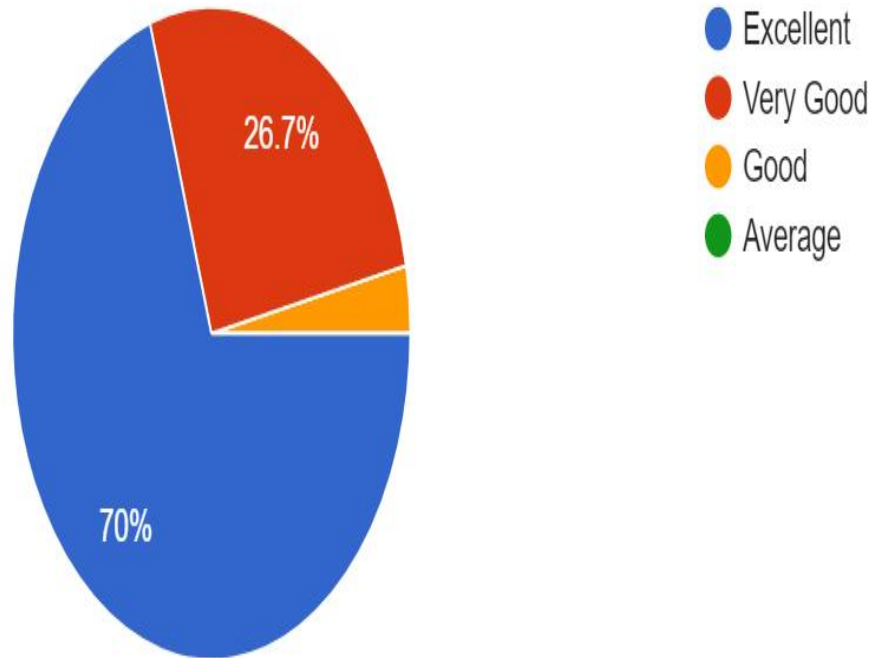


Session 10: Dr. Praveen Kumar (Jio AI CoE)

Topic : Future of AI In Computer Vision

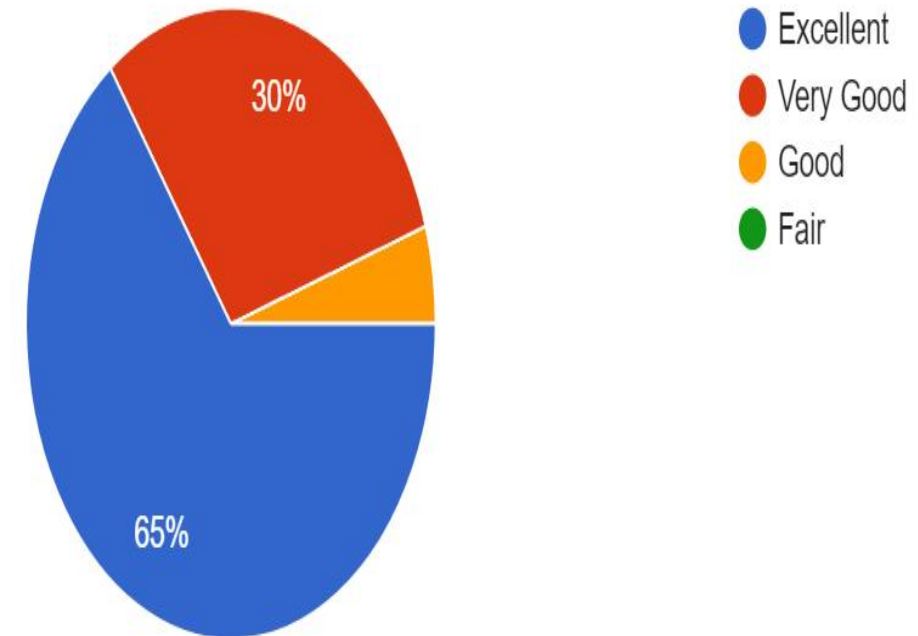
Rating about (Dr. Praveen Kumar Pokala)

60 responses



Rating About the Topic Covered

60 responses



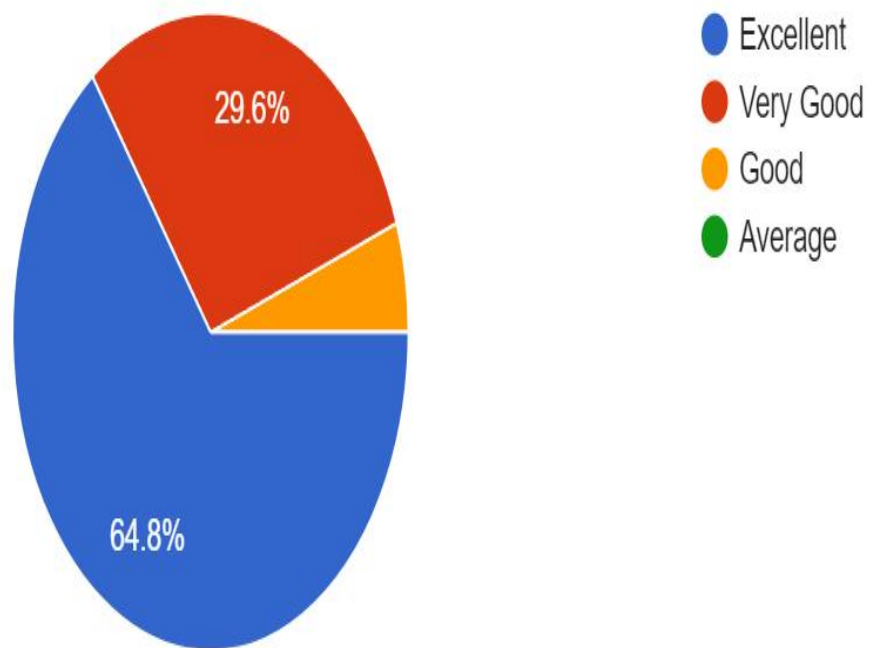


Session 11: Aditya Bhattacharya (KU Leuven)

Topic : Explainable Deep Learning

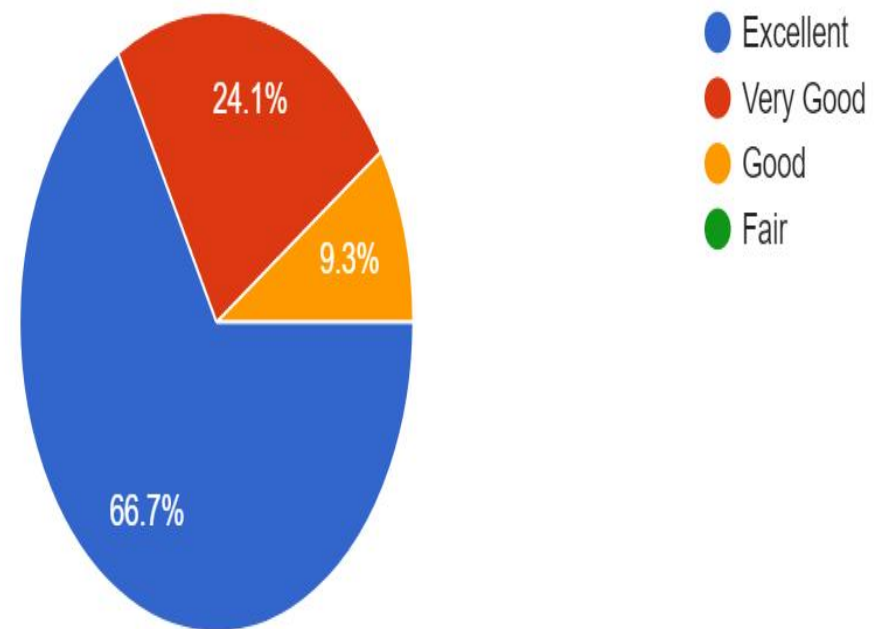
Rating about (Mr. Aditya Bhattacharya)

54 responses



Rating About the Topic Covered

54 responses



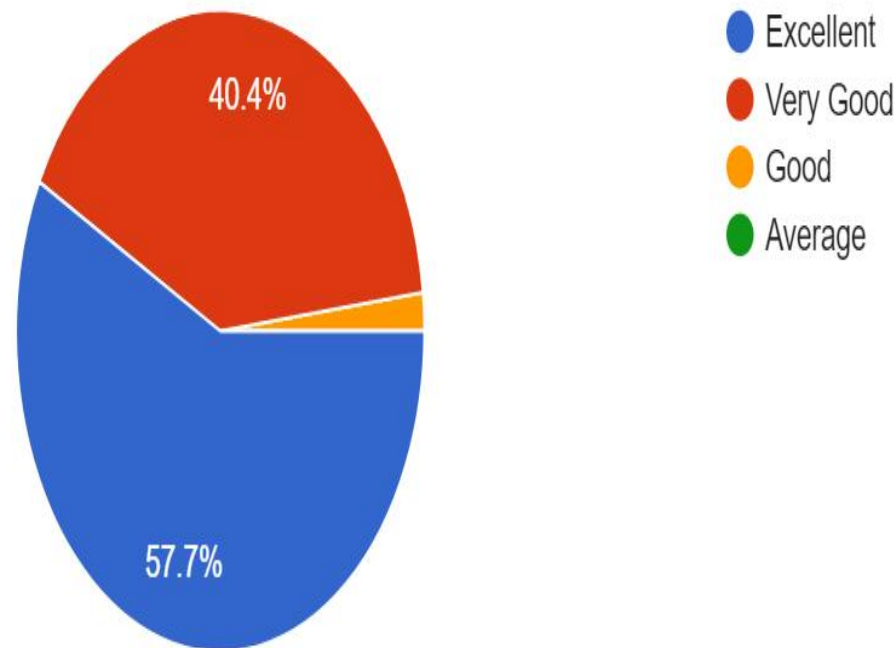


Session 12: Akрати Saxena (Leiden University)

Topic : Explainable Deep Learning

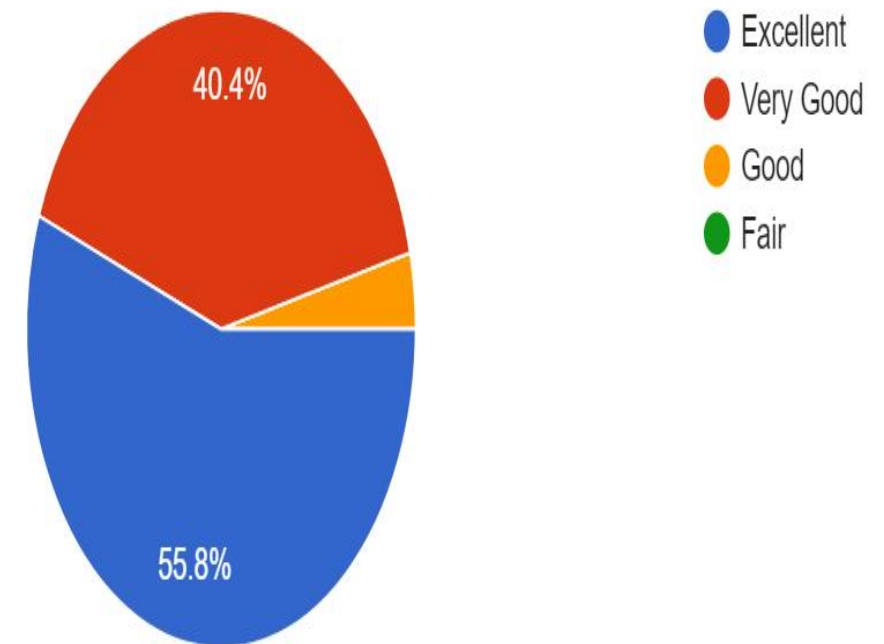
Rating about (Prof. Akрати Saxena)

52 responses



Rating About the Topic Covered

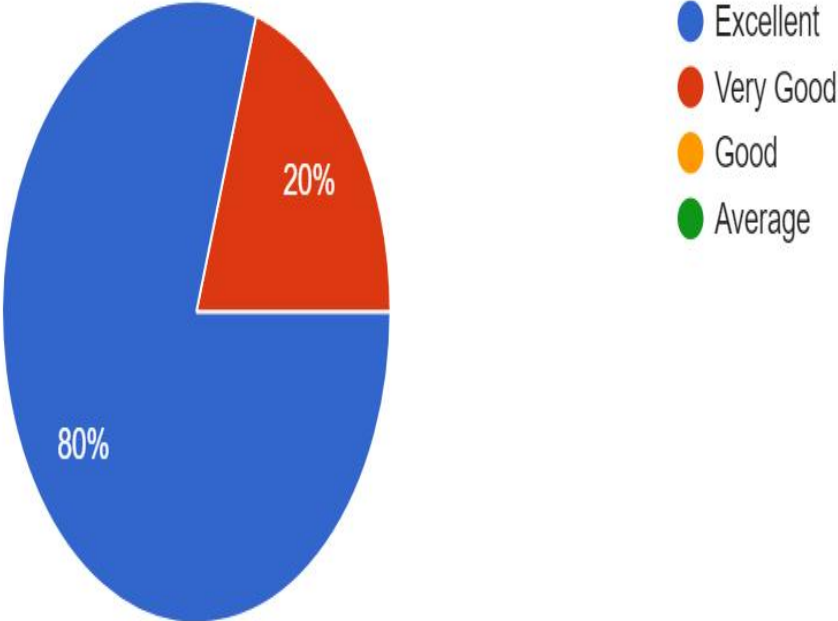
52 responses



Overall Review of the Apollonius

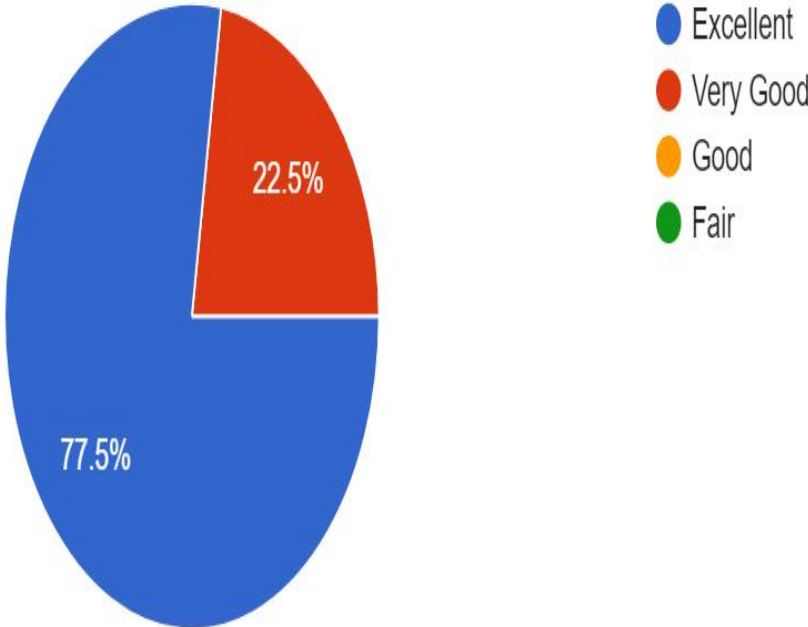
Rating about The FDP Programme on AI 2024 Conducted By Apollonius

40 responses



Rating About The All Sessions Contents on AI

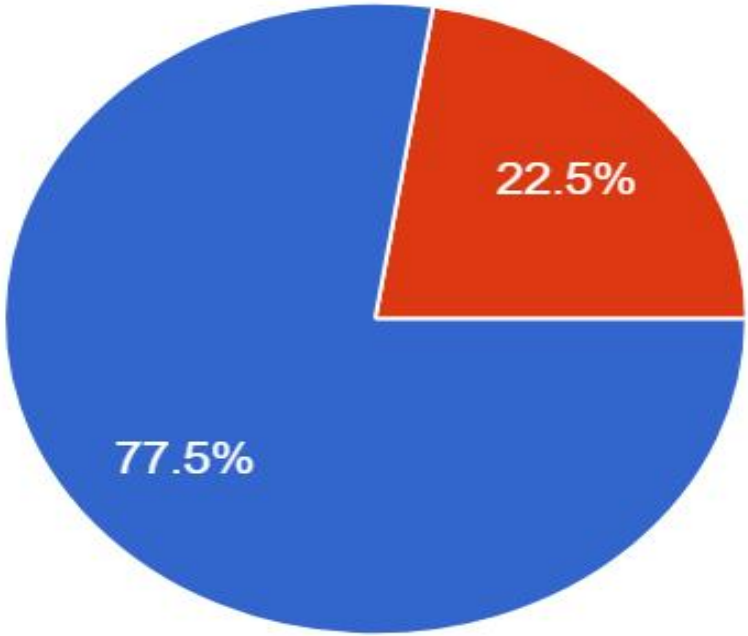
40 responses



Overall Review of the Apollonius

Rating About the Apollonius Proficiency in Conducting FDP On AI

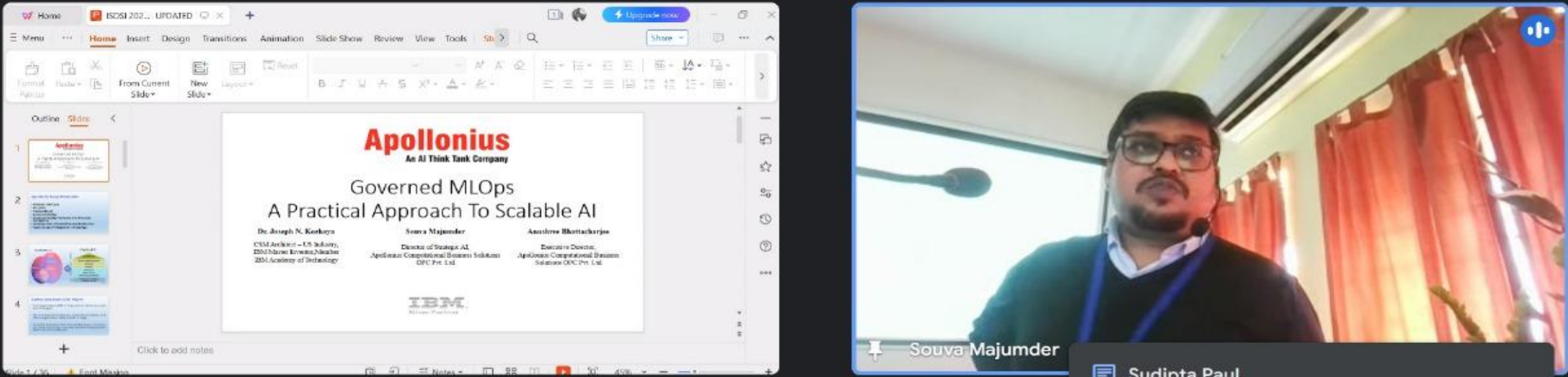
40 responses



- Excellent
- Very Good
- Good
- Fair

Souva Majumder for FDP on AI 2024

Souva Majumder (Presenting)



The screenshot shows a Zoom meeting interface. On the left, a presentation slide is displayed within a Microsoft PowerPoint window. The slide title is "Apollonius - An AI Think Tank Company" and the main content is "Governed MLOps - A Practical Approach To Scalable AI". The slide lists three speakers: Dr. Joseph N. Koorkora, Souva Majumder, and Ananthra Bhattacharjee. The IBM logo is visible at the bottom of the slide. On the right, a video feed shows Souva Majumder, the presenter, wearing glasses and a blue lanyard. Below the video feed, a chat window shows a message from Sudipta Paul: "Yes." and a notification: "Someone wants to join this call View".

Outline: Slides

1. Apollonius - An AI Think Tank Company
2. Governed MLOps - A Practical Approach To Scalable AI
3. Apollonius - An AI Think Tank Company
4. Apollonius - An AI Think Tank Company

Click to add notes

Supriya Kam... Dr Mohamm... Sweta Rani Sudipta Paul Prof. Milan K... Pallab Roy

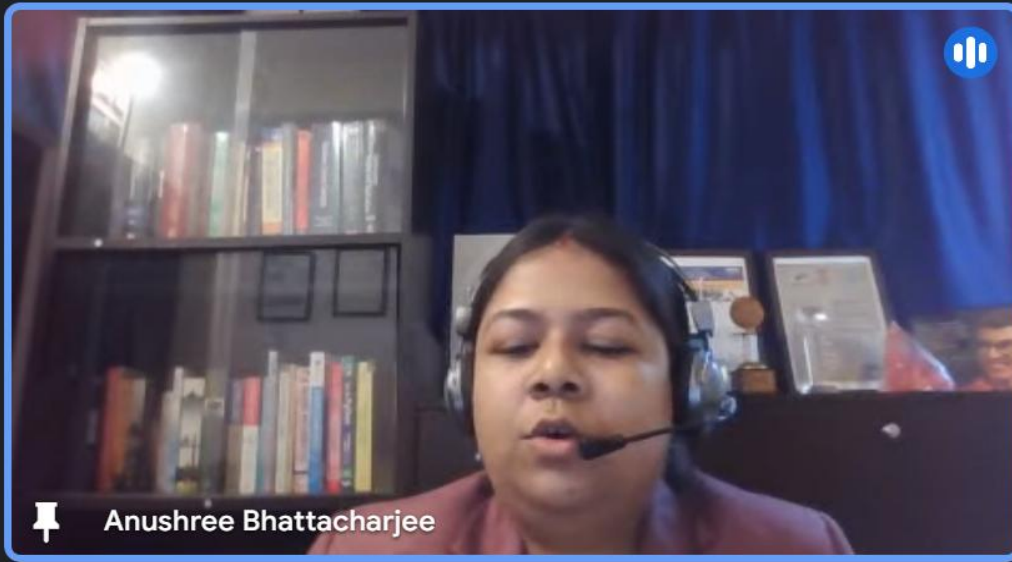
11:54 AM | ngi-yuei-erp

29

Anushree Bhattacharjee for FDP on AI 2024

A Anushree Bhattacharjee (Presenting)

The screenshot shows a PowerPoint slide with a red background and white text. The slide is titled "Prompt Engineering" and has the subtitle "Speaking the Language of Machines". At the bottom right, it identifies the presenter as "Anushree Bhattacharjee, CoFounder & Executive Director". The slide also features logos for "Apollonius An AI Think Tank Company" and "IBM Silver Partner". The PowerPoint interface is visible, showing a slide sorter on the left and various menu options at the top.



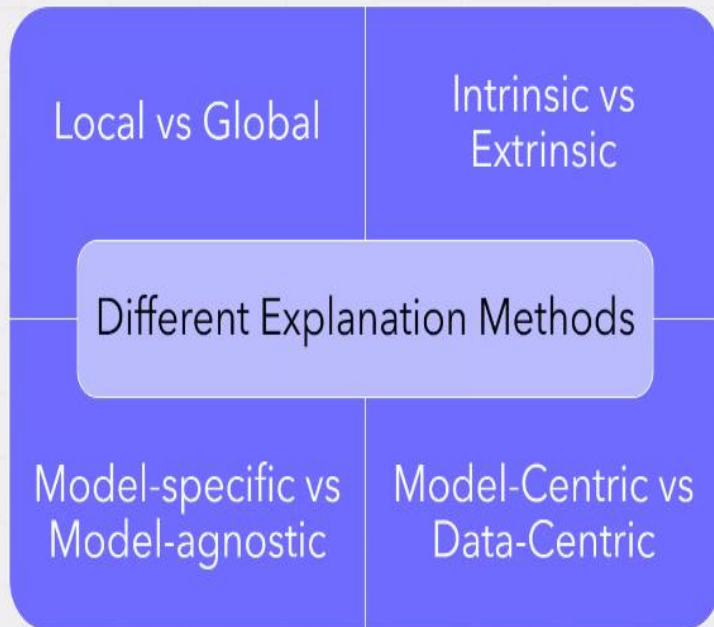
Sumita Giri Dr. Anupam Gh... Nirmalya Sankar... Akanksha Singh Arindam Roy 22 others Anushree Bhatt...

A row of circular icons for Zoom meeting controls, including microphone, video, chat, and other functions. A red phone icon is also present.

Aditya Bhattacharya for FDP on AI 2024



Aditya Bhattacharya (Presenting)



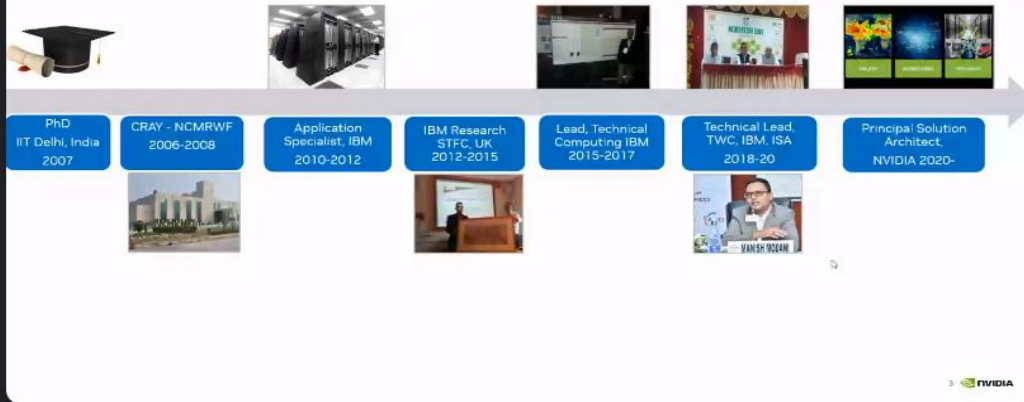
Aditya Bhattacharya

Dr. Manish Modani for FDP on AI 2024



Dr Manish Modani (Presenting)

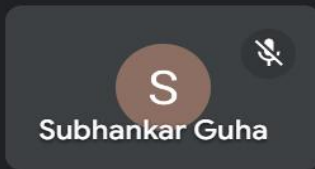
My Journey



Dr Manish Modani



Anushree Bhatt...



Subhankar Guha



ARITRA MANDAL



Sonali Das



Supriya Kamble



23 others



Souva Majumder

5:15 PM | ngi-yuei-erp



Dr. Praveen Kumar for FDP on AI 2024



Praveenkumar Pokala (Presenting)

Trailblazing Trends in Computer Vision Odyssey

Ethical and Responsible AI

Bias Mitigation: Continued efforts to identify and mitigate biases in computer vision algorithms, ensuring fairness and ethical considerations in AI applications.

Robotics and Vision Integration

On-Device Processing: Increased emphasis on deploying lightweight models for on-device processing, reducing dependence on cloud resources and addressing privacy concerns.

Quantum Computing Impact

Quantum-Inspired Solutions: Exploration of how quantum computing can influence computer vision tasks, potentially leading to breakthroughs in optimization and pattern recognition.

Real-Time and Dynamic Vision

Dynamic Object Recognition: Improved algorithms for real-time recognition and tracking of dynamic objects in video streams, supporting applications in surveillance, autonomous vehicles, and smart environments.

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Praveenkumar ...



Anushree Bhatt...



BBIT, Mechnica...



Subhabrata Mo...



Sweta Rani



sourajit Maity



Himeli Chakrab...



26 others



Souva Majumder

Dr. Akrati Saxena for FDP on AI 2024



Akrati Saxena (Presenting)

Algorithmic Fairness in Link Prediction on Complex Network

Dr. Akrati Saxena

Asst. Professor

LIACS, Leiden University, The Netherlands

January 8, 2024



Dr. Manjira Sinha for FDP on AI 2024



Dr. Tirthankar Dasgupta for FDP on AI 2024



Prof. Arnab K Laha for FDP on AI 2024

The image shows a Zoom meeting interface. The main video window displays Prof. Arnab K. Laha, a man with glasses wearing a light blue shirt and a dark vest, in a room with a bookshelf and a window. The name 'Prof. Arnab K. Laha' is pinned below his video. To the right is a gallery of other participants: Anushree Bhattacharya (with a headset), Kashyapa Kanti Sa..., Vinayak Ghosh (with a 'V' icon), Sweta Rani (with an 'S' icon), a group of 42 others, and Souva Majumder. The bottom toolbar includes icons for microphone, video, chat, reactions, share, hand raise, menu, and end call. The meeting ID 'ngi-yuei-erp' and time '2:27 PM' are shown in the bottom left, and a participant count of '49' is in the bottom right.

Dr. Ayantika Chatterjee for FDP on AI 2024

A Ayantika Chatterjee (Presenting)

0:10:26 11:13

Pillars of Security/Privacy Protection

- Confidentiality is satisfied if data or objects are not read by an unauthorized party.
- Integrity is satisfied if data or objects are not changed (written) or generated by an unauthorized party.
- Authenticity is satisfied if an author of data or an object is who it claims to be.
- Availability is satisfied if data, objects, or services are available.

Next slide

Can AI-based Components be Part of Dependable Systems?

No Notes.

meet.google.com is sharing your screen. Stop sharing

Ayantika Chatterjee

Anushree Bhatt...

Som Shuvra Ma...

Pallab Roy

Biswajyoti Mon...

Satabdi Chatte...

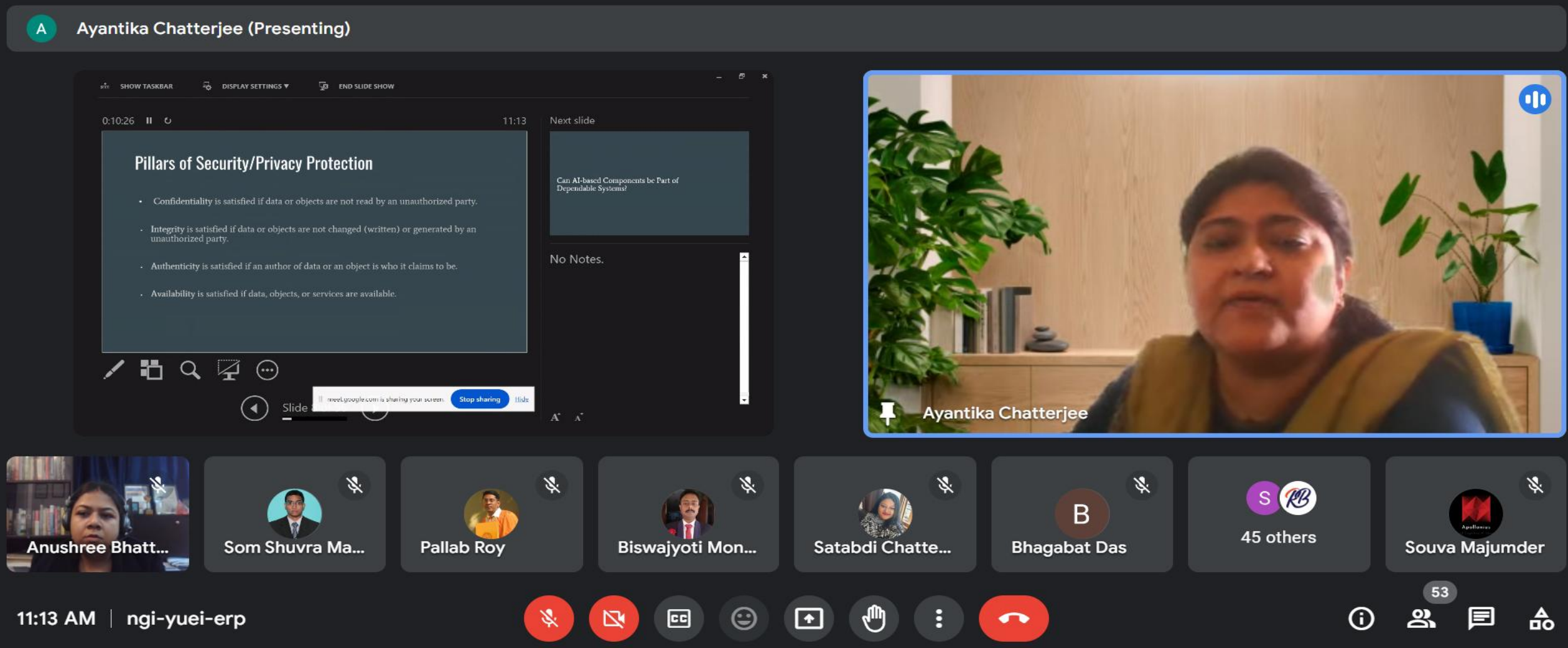
Bhagabat Das

45 others

Souva Majumder

11:13 AM | ngi-yuei-erp

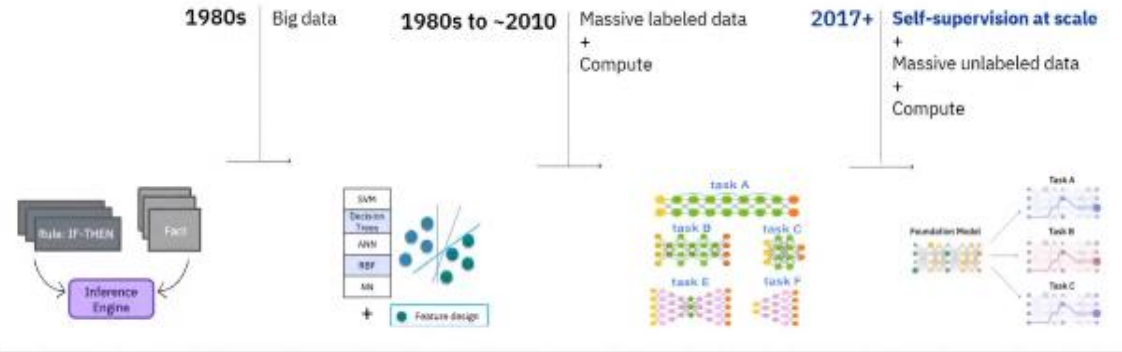
53



Mr. Nijesh Kanjinghat for FDP on AI 2024

Foundation models are an inflection point in AI
poised to dramatically accelerate enterprise AI adoption

Circa 2021/2022 chart – to convey
the importance of foundation
models for accelerating AI
adoption in enterprises



Expert Systems

- Manually-crafted symbolic representations and rules
- No use of data and brittle

Machine Learning

- Less brittle but labor intensive
- Demanding data prep and feature engineering

Deep Learning

- Automatically learn if you have enough labeled data
- Enterprise adoption limited by availability of labeled data

Foundation Models

- Learn from lots of data *without requiring labels*
- Quickly adopt to enterprise tasks using limited labels



Mr. Arnab Datta for FDP on AI 2024

Artificial intelligence (AI) is revolutionizing the design and operation of process plants by offering advanced capabilities that enhance efficiency, safety, and sustainability.

Artificial intelligence (AI) is making significant strides in various industries, including engineering, and it has the potential to revolutionize the field of piping engineering as well.

Artificial intelligence (AI) is gradually transforming pipe stress analysis, a critical aspect of ensuring the safety and reliability of piping systems in various industries.



Apollonius
An AI Think Tank Company

www.apollonius.in

M: 6289859719