



BVV Sangha's
**AMRUTA INSTITUTE OF ENGINEERING &
MANAGEMENT SCIENCES - BENGALURU**
Approved by AICTE, New Delhi & Affiliated to VTU Belagavi

AIEMS
BENGALURU



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

In association with IIC 8.0

PRESENTS

5-Day Technical Program (3 Days Online Workshop & 2 Days Hackathon)

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INTRODUCTION

The three-day workshop conducted by the Edunet Foundation successfully provided participants with valuable knowledge and hands-on experience in emerging Artificial Intelligence and cloud-based technologies. The workshop effectively bridged the gap between theoretical understanding and practical implementation by introducing participants to modern AI concepts, enterprise AI tools, and real-world application development frameworks.

Throughout the workshop, participants developed a strong foundation in Agentic AI and gained insights into how intelligent AI systems can perform autonomous and goal-oriented tasks. The completion of IBM Skills Build courses helped participants understand AI fundamentals and cloud solution design, strengthening their knowledge of scalable and efficient technology deployment. The certification-based learning approach also encouraged continuous skill development and industry readiness.

The hands-on labh sessions played a crucial role in enhancing practical knowledge by allowing participants to build Retrieval-Augmented Generation (RAG) systems using LangChain, develop AI-powered document retrieval systems using IBM Granite and Docling, and design intelligent AI agents using LangFlow. These practical implementations helped participants understand bow advanced AI frameworks can be used to create accurate, efficient, and context-aware AI solutions.

EVENT FLOW

DAY 1: INTRODUCTION TO AGENTIC AI AND REGISTRATION INTO IBM CLOUD PORTAL AND IBM SKILLS BUILD PORTAL

The first day (28th January 2026) of the workshop, conducted by the Edunet Foundation, focused on introducing participants to the emerging concept of Agentic Artificial Intelligence (Agentic AI) and guiding them through the registration process for the IBM Cloud Portal and IBM SkillsBuild Portal. The session aimed to provide students with foundational knowledge of modern AI systems and hands-on exposure to industry-level cloud platforms.

The workshop began with an overview of Agentic AI, which refers to intelligent AI systems capable of autonomous decision-making, goal-driven execution, and interaction with external tools or environments. The session explained how Agentic AI differs from traditional AI by emphasizing automation, adaptability, and the ability to perform multi-step tasks with minimal human intervention. Real-world examples were discussed, including AI assistants, automated workflows, and intelligent decision-support systems used in various industries such as healthcare, cybersecurity, and business automation. The session highlighted the growing importance of Agentic AI in solving complex real-world problems and its potential to revolutionize future technological advancements.

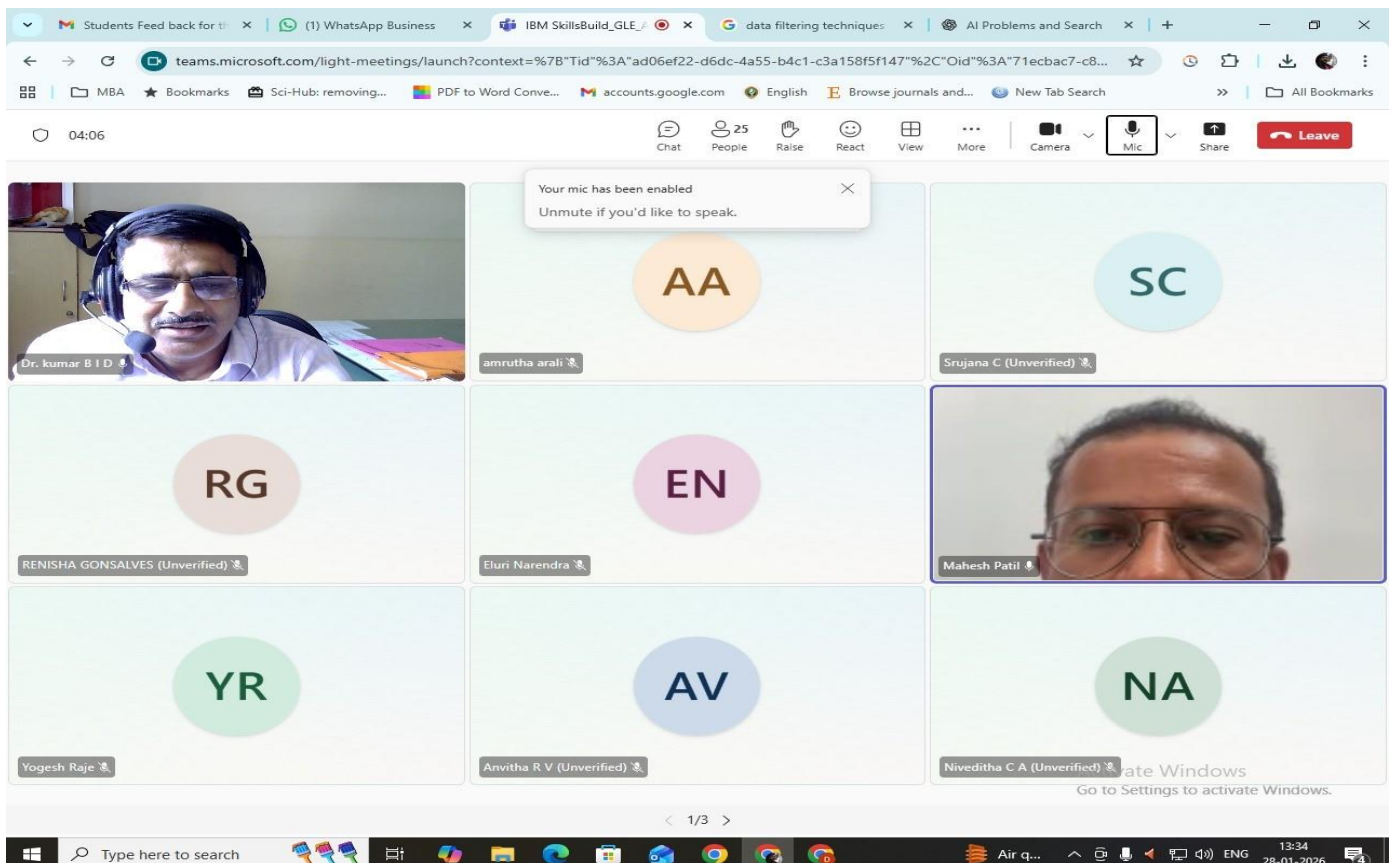


Following the theoretical introduction, the trainers provided an overview of IBM's AI ecosystem, including its cloud infrastructure and AI development tools. Participants were introduced to the IBM Cloud Portal, which serves as a platform for deploying, managing, and scaling AI models and applications. The instructors demonstrated the process of creating IBM Cloud accounts and explained the various services available within the platform, such as AI model hosting, data storage, and application deployment.

The second part of the session focused on the IBM SkillsBuild Portal, a learning platform designed to provide structured training, certifications, and skill development in emerging technologies such as Artificial Intelligence, Cloud Computing, and Data Science. Participants were guided through the registration process and familiarized with the platform interface, course modules, and learning resources. The trainers emphasized the importance of continuous learning and certification in building industry-relevant technical skills.

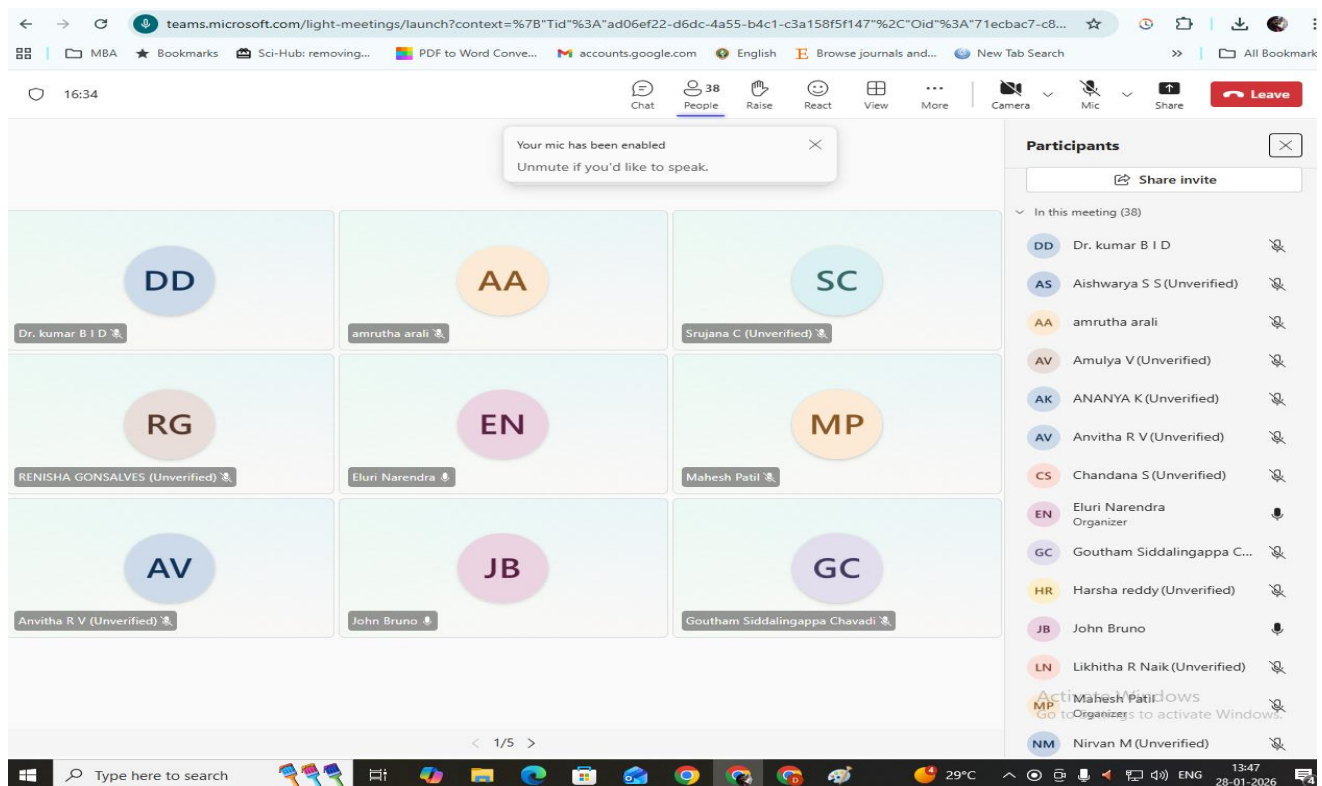
The session was interactive and informative, allowing participants to clarify doubts and understand the practical applications of Agentic AI and IBM cloud technologies. By the end of the day, participants successfully created accounts on both IBM platforms and gained a clear understanding of the workshop's learning objectives and expected outcomes.

Overall, Day 1 provided a strong foundation for understanding advanced AI concepts and prepared participants for hands-on learning in the upcoming sessions of the workshop.



DAY 2: Completion of AI and Cloud Learning Modules and Introduction to RAG

The second day (29th January 2026) of the workshop conducted by the Edunet Foundation focused on enhancing participants' understanding of Artificial Intelligence and Cloud Computing through the completion of two structured learning modules: "Getting Started with Artificial Intelligence" and "Journey to Cloud: Envisioning Your Solution." Additionally, the session introduced participants to the concept of Retrieval-Augmented Generation (RAG) and its practical applications. Participants also successfully obtained certificates upon completing the assigned courses.



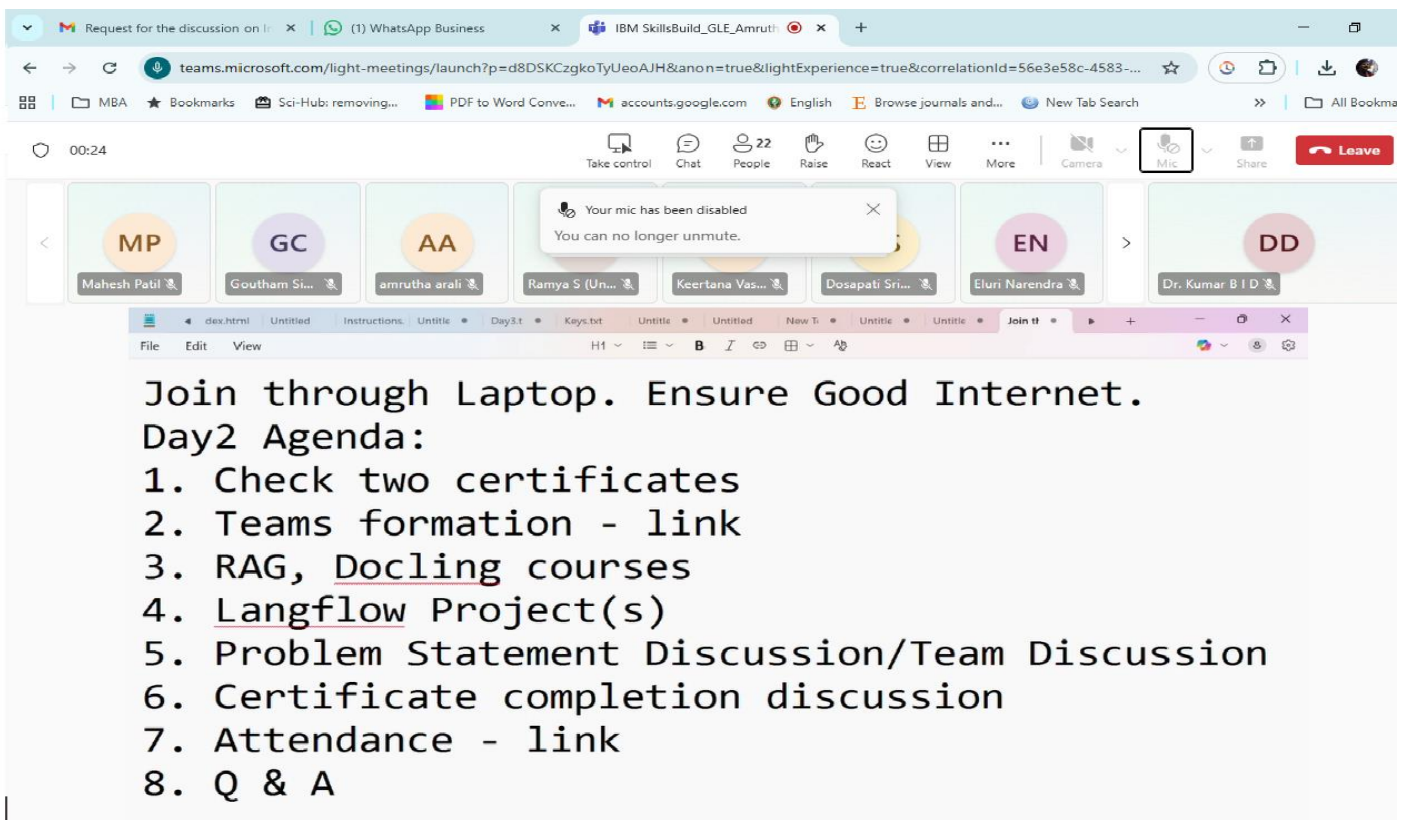
The session began with the "Getting Started with Artificial Intelligence" course, which provided participants with a fundamental understanding of AI concepts, including machine learning, deep learning, and natural language processing. The course explained how AI systems are designed to learn from data and make intelligent predictions or decisions. It also highlighted real-world AI applications such as virtual assistants, recommendation systems, predictive analytics, and automation tools used across industries. The module helped participants build a strong conceptual base in AI and understand its growing significance in modern technology.

The second course, “Journey to Cloud: Envisioning Your Solution,” introduced participants to cloud computing principles and solution architecture. The module explained how organizations use cloud platforms to develop, deploy, and scale applications efficiently. Participants learned about cloud service models such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). The course also emphasized designing scalable, flexible, and cost-effective cloud-based solutions, helping participants understand how AI and cloud technologies work together in real-world environments.

Following the course completion, participants were introduced to Retrieval-Augmented Generation (RAG), an advanced AI technique that enhances the performance of language models by combining information retrieval with text generation. The session explained how RAG improves the accuracy and reliability of AI responses by retrieving relevant information from external data sources before generating outputs. The trainers discussed practical applications of RAG in chatbots, knowledge management systems, search engines, and AI-driven decision-support tools.

The session provided both theoretical knowledge and practical exposure, enabling participants to understand how AI and cloud technologies are integrated to build intelligent systems. Upon successful completion of the courses, participants received certificates that validated their learning and skill development.

Overall, Day 2 strengthened participants’ knowledge of AI fundamentals, cloud solution design, and modern AI enhancement techniques such as RAG, preparing them for more advanced hands-on learning in the subsequent sessions of the workshop.



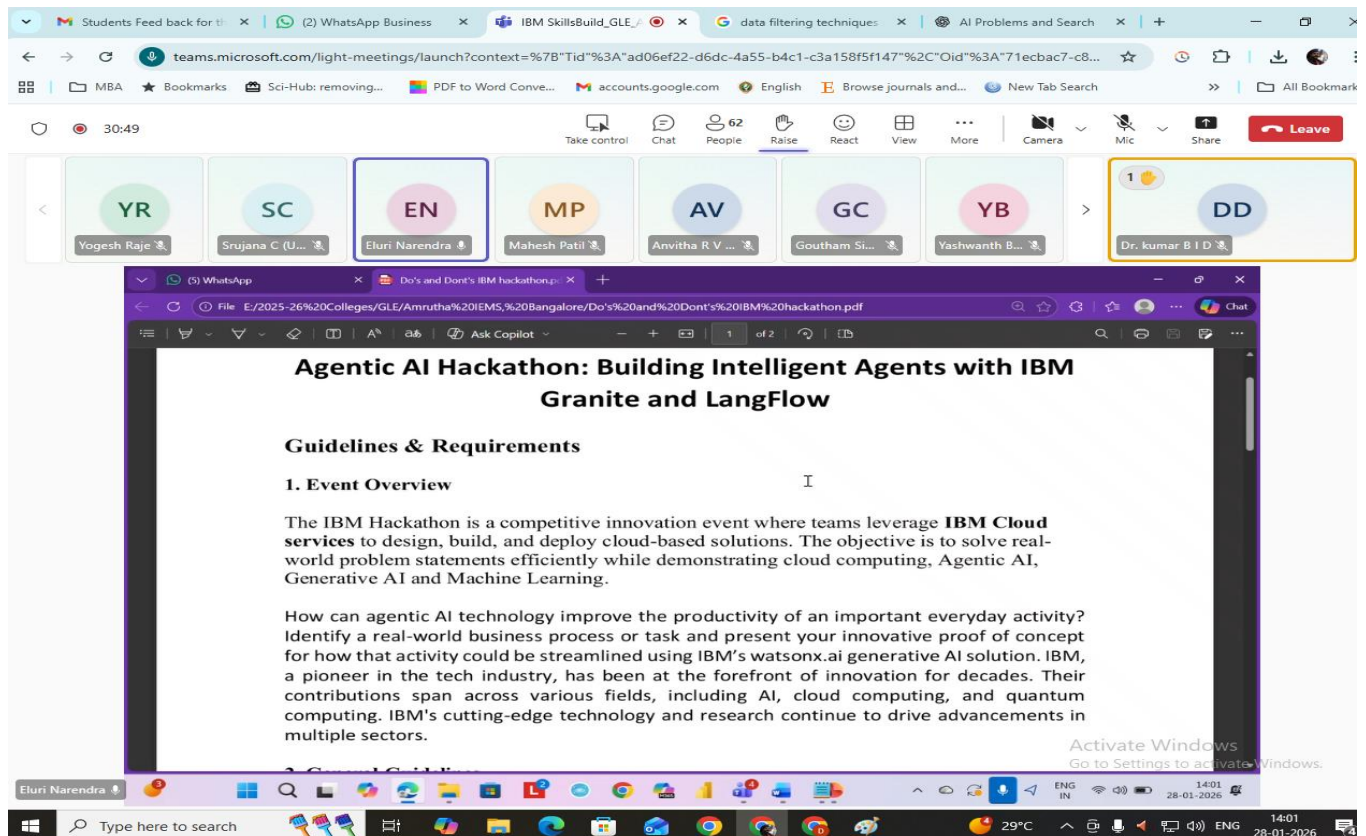
The screenshot shows a Microsoft Teams meeting interface. At the top, there are browser tabs for 'Request for the discussion on...', '(1) WhatsApp Business', and 'IBM SkillsBuild_GLE_Amrut...'. The Teams window title is 'teams.microsoft.com/light-meetings/launch?p=d8DSKCzgkoTyUeoAJH&ano=true&lightExperience=true&correlationId=56e3e58c-4583-...'. The meeting controls bar shows '00:24' and icons for 'Take control', 'Chat', 'People' (22), 'Raise', 'React', 'View', 'More', 'Camera', 'Mic', 'Share', and 'Leave'. Below the controls, a list of participants is visible: MP (Mahesh Patil), GC (Goutham Si...), AA (amrutha arali), EN (Eluri Narendra), and DD (Dr. Kumar B I D). A notification box states 'Your mic has been disabled. You can no longer unmute.' Below the participants, a document titled 'Day2 Agenda' is open, displaying the following list:

- Join through Laptop. Ensure Good Internet.
- Day2 Agenda:
- 1. Check two certificates
- 2. Teams formation - link
- 3. RAG, Docling courses
- 4. Langflow Project(s)
- 5. Problem Statement Discussion/Team Discussion
- 6. Certificate completion discussion
- 7. Attendance - link
- 8. Q & A

DAY 3: Implementation of RAG Systems and Agent Development Using Lang Flow

The third day (30th January 2026) of the workshop conducted by the Edunet Foundation focused on practical implementation and hands-on learning by guiding participants through advanced AI development labs. The day primarily covered two major lab sessions: “Build a Retrieval Augmented Generation Pattern with LangChain” and “Build an AI-Powered Document Retrieval System with IBM Granite and Docling.” Additionally, participants were introduced to building intelligent AI agents using the LangFlow platform.

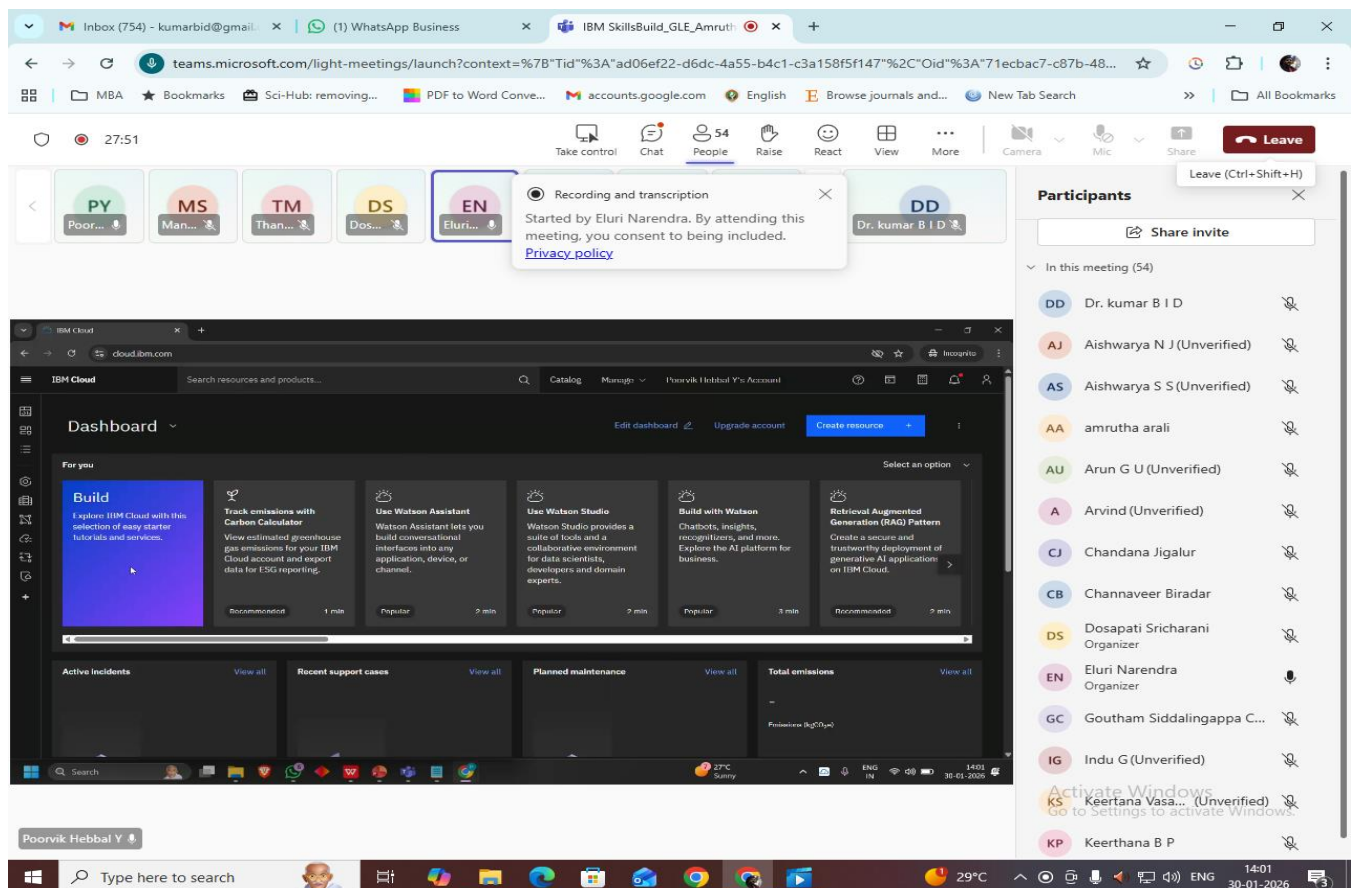
The first lab session introduced participants to building a Retrieval-Augmented Generation (RAG) pattern using LangChain. Participants learned how RAG enhances AI model performance by combining large language models with external knowledge retrieval systems. The session demonstrated how LangChain helps developers integrate multiple components such as data sources, embeddings, vector databases, and language models to build intelligent AI applications. Participants gained hands-on experience in structuring workflows that allow AI systems to retrieve relevant data from stored knowledge bases before generating responses. This approach improves response accuracy, reduces misinformation, and enables AI models to provide context-aware outputs.



The second lab session focused on developing an AI-powered document retrieval system using IBM Granite and Docling. Participants were introduced to IBM Granite models, which are designed for enterprise-level natural language processing tasks. The session explained how these models can process and analyze structured and unstructured data effectively. Using Docling, participants learned how to extract, organize, and process information from documents, enabling the creation of intelligent document search and retrieval systems. The lab demonstrated how AI can assist in automating knowledge management and information retrieval processes in real-world applications such as research analysis, customer support, and enterprise data management.

The final segment of the session involved building an AI agent using LangFlow, a visual workflow-based development platform. Participants learned how to design and configure agentic workflows by connecting different AI components such as input interfaces, processing modules, retrieval systems, and output generators. The session emphasized how agent-based AI systems can autonomously perform tasks, interact with multiple tools, and respond dynamically to user queries. Participants gained practical exposure to building AI agents capable of executing complex workflows with minimal manual intervention.

Overall, Day 3 provided participants with valuable hands-on experience in implementing advanced AI architectures, integrating enterprise AI models, and developing intelligent agent-based systems. The session strengthened participants' understanding of modern AI development frameworks and prepared them for building real-world AI-driven solutions.



DAY 4 : Hackathon Guidelines and Problem Statement

Discussion

The fourth day of the workshop conducted by the Edunet Foundation was dedicated to the orientation and guidelines for the Hackathon, which aimed to provide participants with a real-world problem-solving experience using IBM Cloud technologies. This session focused on familiarizing students with the hackathon structure, rules, evaluation criteria, and expectations.

The session began with an explanation of the general guidelines for participation. Participants were instructed to form teams consisting of up to three members. The problem statements provided for the hackathon were based on key societal and technological domains such as agriculture, healthcare, and traffic congestion, using vehicular and real-world data. These domains were selected to encourage students to build solutions that are innovative, socially relevant, and practically applicable.

Students were required to bring their own laptops with the necessary tools and software installed. All participants were expected to use the IBM Cloud platform for development, and account setup details were provided prior to the event. The trainers emphasized the importance of ethical practices, clearly stating that plagiarism, hard-coded outputs, and the use of unauthorized services were strictly prohibited.

The screenshot shows a PDF document titled "2. General Guidelines" with the following content:

- Participants will register in teams of up to **3 members**.
- Problem statements are based on Agriculture, Healthcare, Traffic congestion based on Vehicular data.
- Participants must bring their own laptops with required tools/software installed (IBM Cloud account setup will be provided before the event).
- Each team will get **7 Minutes to present + 3 minutes Q&A** with Jury.
- Teams must adhere to ethical standards—**plagiarism, hard-coded results, or use of unauthorized services is strictly prohibited**.
- Judging criteria will include:
 1. Usage of IBM Cloud-Platform - Appropriate application of technology against the problem statement? (5 Marks)
 2. Scalability and Genuinity/Innovativeness (5 Marks)
 3. Contribution/Beneficial to the Society (5 Marks)
 4. Readiness for Deployment (5 Marks)
 5. Commercial and Market Viability (5 Marks)
 6. Suggested way forward and recommendations: Future Scope (5 Marks)

The document is displayed in a web browser window with the file path: E:/2025-26%20Colleges/GLE/Amrutha%20IEMS,%20Bangalore/Do's%20and%20Dont's%20IBM%20hackathon.pdf. The Windows taskbar at the bottom shows the time as 14:03 on 28-01-2026.

The evaluation process was explained in detail. Each team was allotted seven minutes for project presentation followed by three minutes of question-and-answer interaction with the jury. The judging criteria included appropriate usage of the IBM Cloud platform, scalability and innovation of the solution, social impact, readiness for deployment, commercial and market viability, and clarity of future scope and recommendations.

Overall, Day 4 prepared participants for the final hackathon by setting clear expectations, promoting ethical development practices, and encouraging students to apply their technical knowledge to solve meaningful real-world problems.



DAY 5 : Project Showcase Event and Final Presentations (12/02/2026)

The fifth and final day of the workshop conducted by the Edunet Foundation was marked by the **Project Showcase Event** held on **12th February 2026**. This day served as the culmination of the entire program, where participants presented the AI-based solutions they had developed during the hackathon and practical sessions.

Each team showcased their project by demonstrating how their solution addressed the assigned problem statements in domains such as agriculture, healthcare, and traffic management. The participants explained the problem definition, system architecture, technologies used, and the overall working of their models. Emphasis was placed on the practical applicability, innovation, and real-world relevance of the solutions.

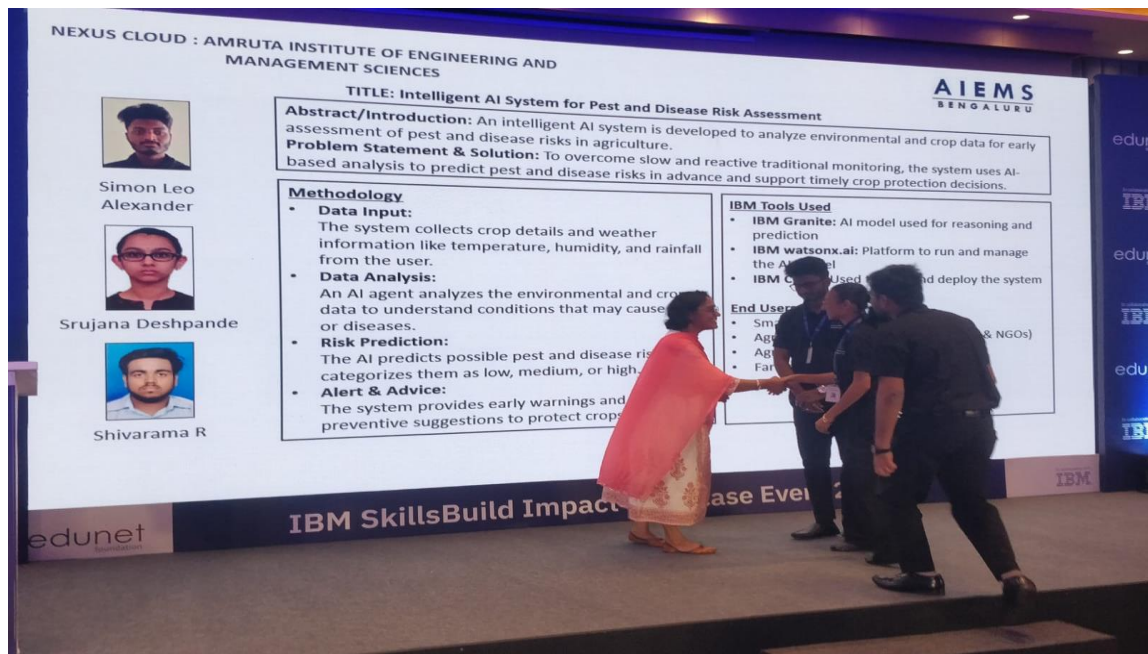
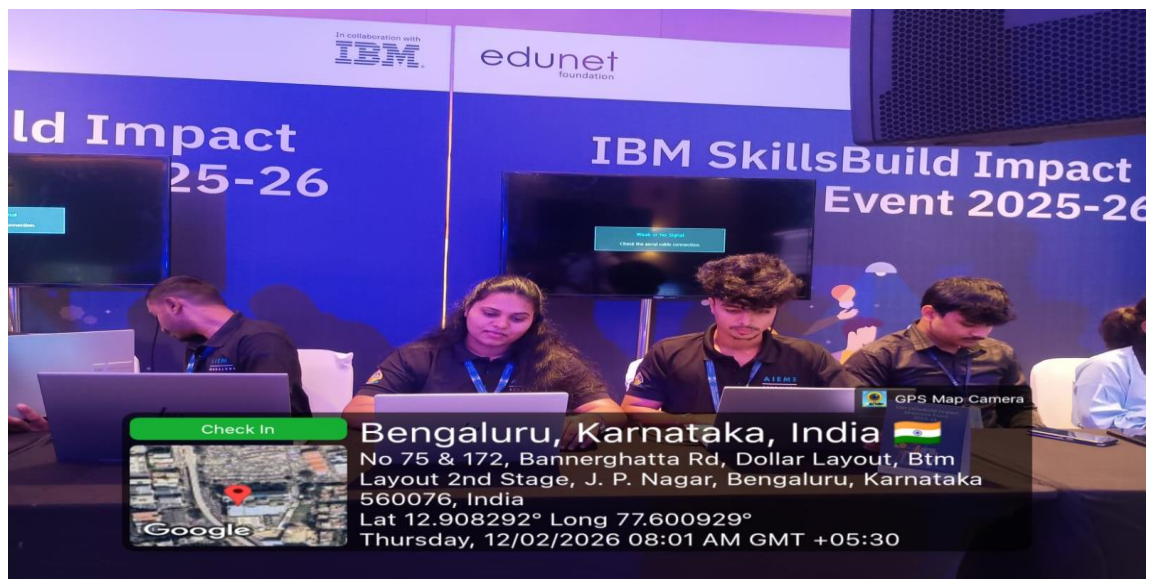
Teams presented their projects using the IBM Cloud platform, highlighting how cloud services, AI models, and data processing tools were integrated to build intelligent systems. The jury panel evaluated the projects based on predefined criteria including effective use of IBM Cloud, scalability, originality, societal impact, deployment readiness, and future scope.

The showcase event provided an excellent platform for participants to improve their technical presentation skills, defend their design choices, and receive valuable feedback from industry experts. The interactive Q&A sessions helped students gain insights into improving system performance, user experience, and real-world deployment strategies.

At the end of the event, the best-performing teams were appreciated, and participants were encouraged to further enhance their projects beyond the workshop. The session concluded with a brief valedictory note, acknowledging the efforts of the trainers, organizers, and participants, and emphasizing the importance of continuous learning in emerging technologies.

Overall, Day 5 successfully brought together learning, innovation, and practical application, making the workshop a highly impactful and enriching experience for all participants.









IBM Skills Build Impact- Project Showcase Program held at Hotel Green park, Bannerghatta Main Road, J P Nagar Bengaluru on 12/02/2026

CONCLUSION

The three-day workshop organized by the Edunet Foundation proved to be a highly impactful learning experience, offering participants a balanced blend of theoretical knowledge and practical exposure to emerging Artificial Intelligence and cloud technologies. Through expert guidance, certification-based learning, and hands-on lab sessions, participants were able to gain in-depth understanding of Agentic AI, enterprise AI tools, and real-world application development frameworks.

The practical implementation of RAG systems, AI-powered document retrieval, and intelligent agents enabled participants to apply advanced concepts in meaningful ways, strengthening their technical confidence and problem-solving skills. The workshop also fostered collaboration, critical thinking, and industry-oriented learning, making it highly relevant to current technological trends.

Overall, the workshop successfully enhanced participants' readiness for academic research, innovative projects, and professional careers in AI and cloud computing. It not only equipped them with essential technical competencies but also inspired continuous learning and adaptability in the rapidly evolving field of intelligent systems.

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