

International Conclave on Generative AI and the Future of Education 2.0 (ICGAIFE 2.0)

Introduction The International Conclave on Generative AI and the Future of Education 2.0 (ICGAIFE 2.0) was held from December 8 to 10, 2024, at the Nishagandhi Auditorium, Kanakakunnu Palace, in Thiruvananthapuram, Kerala. Co-organized by the Higher Education Department of the Government of Kerala and the Institute of Human Resources Development (IHRD), the conclave provided a platform for experts, educators, policymakers, and students to discuss the transformative impact of AI on education and beyond.

Key Highlights ICGAIFE 2.0 featured a diverse range of activities, including:

- Keynote Sessions by renowned experts in AI and education
- International Conference on AI's Applications in Education (AITEDUCONF 2024)
- IEEE Roundtable Discussion on AI's role in higher education
- GenAI Connect Sessions exploring AI's impact across various societal domains
- AI Quiz for Learners to engage students in AI-driven knowledge competition
- 24-hour Student Hackathon encouraging innovation in AI applications
- Exhibitions and Public Demonstrations showcasing startups and AI-driven solutions
- AI SAMASYA 2024 – National-Level Hackathon on AI-driven education solutions

Speakers and Their Contributions ICGAIFE 2.0 brought together leading academicians, industry professionals, and AI researchers to discuss the role of generative AI in education. Some notable speakers and their key insights include:

- **Prof. Kannan M. Moudgalya (IIT Bombay)** – Spoke about AI-driven learning platforms and their role in democratizing education.
- **Prof. K. V. S. Hari (IISc Bangalore)** – Addressed AI's applications in higher education and its integration into curricula.
- **Mr. Aldrin Jenson (Athena Intelligence, New York)** – Shared insights on AI in personalized learning and student performance analytics.
- **Dr. Prahlad Vadakkepatt (National University of Singapore)** – Discussed AI's impact on skill development and its potential to bridge gaps in education.
- **Dr. David Natarajan (Universiti Teknologi MARA, Malaysia)** – Explored AI's applications in engineering education and research methodologies.

- **Dr. Arun Surendran (Trinity Engineering College)** – Highlighted AI as an enhancement tool rather than a replacement for traditional teaching.
- **Dr. Alpana Dubey (Accenture Labs, Bangalore)** – Focused on AI-powered adaptive learning models and their implications for future classrooms.
- **Dr. B. Shadrach (Commonwealth Media Centre for Asia, New Delhi)** – Emphasized AI ethics and responsible AI deployment in education.
- **Ms. Shalini Kapoor (Amazon Web Services, Bangalore)** – Discussed cloud-based AI solutions for making education more accessible.

IEEE Round Table Discussion The IEEE Round Table Discussion focused on "The Role, Influence, and Future of Generative AI in Higher Education" and featured panelists such as:

- **Prof. Viraj Kumar (IISc Bangalore)** – Spoke on AI in computing education.
- **Mr. Vinod Neelanath (UST SmartOps)** – Addressed AI-driven automation in education.
- **Mrs. Madhuri D. Madhavanpillai (IBM India Software Labs)** – Discussed AI's integration in cloud-based learning applications.
- **Ms. Nikita Pinto (MathWorks)** – Explored AI applications in engineering and scientific education.

AITEDUCONF 2024 – International Conference on AI in Education Held as part of ICGAIFE 2.0, AITEDUCONF 2024 was a significant event that brought together researchers and industry professionals to present groundbreaking studies on AI's role in education. Major themes covered included:

- AI-driven pedagogical models
- AI applications in student assessment and evaluation
- AI's role in educational management and lifelong learning

GenAI Connect Sessions GenAI Connect was a curated set of sessions focused on the transformative power of AI across multiple sectors. Topics included:

- **AI in the Judicial System** – Examined AI's applications in legal research, case management, and decision-making processes.
- **AI in Media** – Explored AI-driven content creation, audience engagement, and its impact on the media industry.

- **AI in Law Enforcement** – Discussed AI's role in crime prevention, surveillance, and predictive policing.
- **AI in Healthcare** – Analyzed AI-assisted diagnostics, treatment planning, and patient management.
- **AI in Kerala Education** – Investigated AI's potential for personalized learning, administrative automation, and curriculum development.

AI Quiz for Learners The AI Quiz was a competitive event designed to test students' AI knowledge and critical thinking skills. It included district-level preliminary rounds across multiple institutions in Kerala, culminating in the final round at ICGAIFE 2.0. Renowned quizmaster Major Chandrakant Nair led the quiz, making it an engaging and intellectually stimulating event for students.

AI SAMASYA 2024 AI SAMASYA, a national-level hackathon, witnessed enthusiastic participation from teams from colleges within and outside the state striving to create AI-driven solutions for personalized and engaging education.

Participants showcased groundbreaking projects, including interactive learning platforms, AI-assisted tutoring systems, and adaptive study materials, demonstrating AI's transformative potential in education. Expert mentors guided the teams, and the event concluded with top innovations being recognized for their impact and feasibility. AI SAMASYA 2024 not only fostered creative problem-solving but also set the stage for future advancements in AI-powered education.

Impact and Future Directions ICGAIFE 2.0 successfully provided a collaborative platform to explore AI's role in education, fostering discussions on ethical considerations, policy-making, and skill development. The conclave underscored the importance of continuous research and innovation to ensure AI enhances, rather than disrupts, the education system. Moving forward, stakeholders are encouraged to build on the insights gained and work towards AI-driven advancements in education.

Conclusion ICGAIFE 2.0 marked a significant milestone in AI-driven educational transformation. By bringing together experts from academia, industry, and government, the conclave paved the way for future collaborations and innovations in the education sector. The event not only highlighted the potential of generative AI but also emphasized the need for responsible AI adoption to create a more inclusive and efficient learning environment.