दीन दयाल उपाध्याय कॉलेज
DEEN DAYAL UPADHYAYA COLLEGE
(दिल्ली विश्वविद्यालय) (UNIVERSITY OF DELHI)
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DDUC ACM STUDENT CHAPTER

REPORT
"Eminent Speaker Program"
Under
DDUC ACM STUDENT CHAPTER

KEY HIGHLIGHTS:

DATE : 24 October 2024

TIMING : 3:30 P.M.

VENUE : Lecture Hall (Room No. 412), Deen Dayal Upadhyaya College, New Delhi

NO OF PARTICIPANTS : 85

Faculty Sponsor, DDUC ACM Student Chapter :

Dr. Rajni Bala

Session Coordinators :

Dr. Rajni Bala
Prof. Ram Pal Singh
Mr. Sanjeet Kumar

Introduction:

The Eminent Speaker Program, hosted by the DDUC ACM Student Chapter, brought together students, faculty, and technology enthusiasts for an insightful session with Dr. R. Venkateswaran, a distinguished academic and long-time ACM member, currently serving as a Professor of Practice at the Gokhale Institute of Politics and Economics, Pune. Known for his influential work in both academia and industry, Dr. Venkateswaran has made significant contributions to the field of computer science, particularly in understanding and applying emerging technologies.

With participants from diverse academic backgrounds, the program underscored the increasingly multidisciplinary relevance of technology and its applications across various fields. The session opened with an introduction to Dr. Venkateswaran's accomplishments, creating an atmosphere of curiosity and engagement as attendees eagerly anticipated his perspectives on the transformative role of technology in society.

Event Structure:

1. Introduction to ACM and Membership Benefits:

Dr. Venkateswaran began by encouraging students to become part of their college ACM chapter, emphasizing that ACM membership offers unique opportunities to undergraduate students. He outlined how joining ACM connects members with a global community of professionals and researchers, enabling them to attend high-quality workshops, seminars, and conferences. Drawing from his own experiences in attending and organizing various ACM events, Dr. Venkateswaran highlighted the enriching exposure members gain from engaging with industry experts, accessing exclusive resources, and staying updated on the latest technological developments. He noted that ACM membership serves as a valuable asset, especially for students from a variety of disciplines who are eager to understand the broader implications of technology in fields such as data science, economics, and environmental studies.

2. The Growing Role of Artificial Intelligence:

Transitioning to the first core topic, Dr. Venkateswaran delved into the transformative impact of Artificial Intelligence (AI) in today's world, with a particular focus on its applications in healthcare and pharmaceuticals. He explained how AI-powered tools are revolutionizing disease diagnosis, giving examples like the early detection of lung cancer, where AI's precision and speed have proven life-saving. Further, he shared how AI is expediting drug discovery and enhancing treatment protocols, making these processes more accurate, efficient, and cost-effective. This discussion resonated across disciplines, with students from healthcare, engineering, and economics noting AI's potential to create not only scientific advances but also ethical and economic shifts in society. Dr. Venkateswaran highlighted that AI's capacity to address critical needs makes it more than just a tool—it is a vehicle for meaningful change.

3. The Synergy of IoT and AI with 5G:

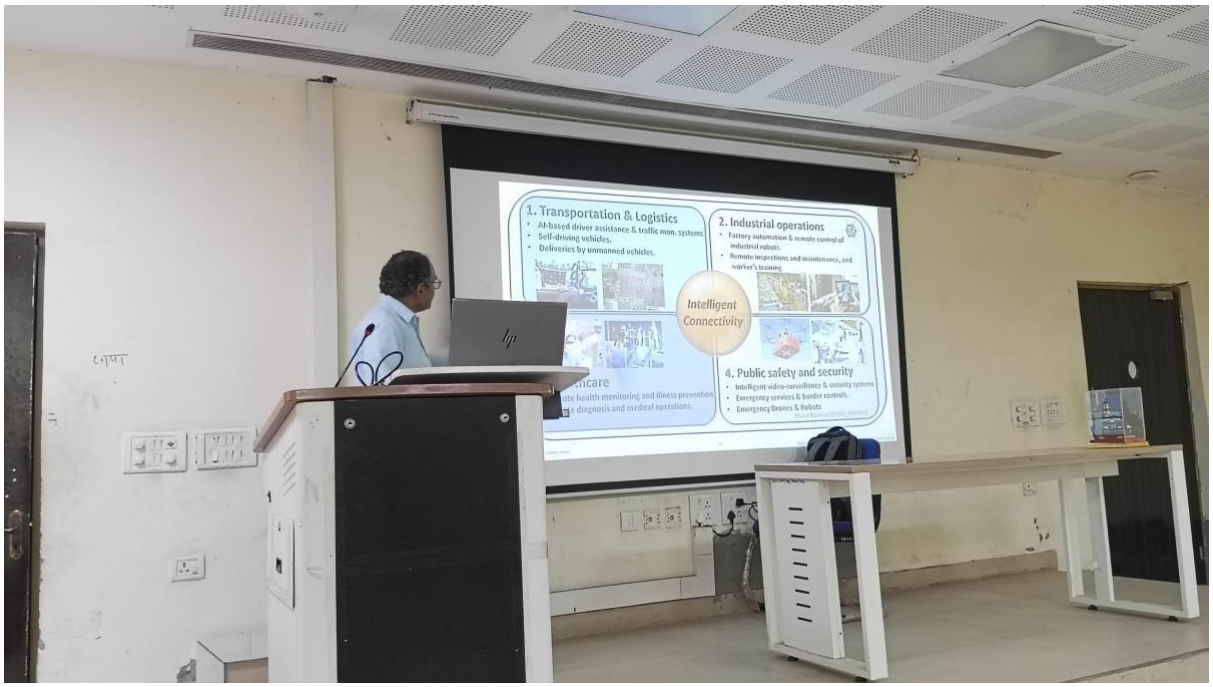
In the next segment, Dr. Venkateswaran focused on the Internet of Things (IoT) and its powerful fusion with AI, enhanced by the capabilities of 5G technology. He explained that this triad of technologies is opening up new horizons for smart and connected systems across industries. IoT devices, driven by AI's analytical power and the rapid data exchange enabled by 5G, are already transforming sectors such as agriculture, urban planning, and manufacturing by providing real-time, actionable insights. Dr. Venkateswaran stressed that this interconnected world of IoT, AI, and 5G is not confined to one industry; rather, it is reshaping industries ranging from transportation to finance, thereby creating a demand for innovative, interdisciplinary solutions. His insights offered students from all backgrounds a glimpse into the future of technology and the immense possibilities that lie ahead.

4. The Ethical Responsibility in Technology:

To close his talk, Dr. Venkateswaran addressed the ethical responsibilities that come with technological innovation. He underscored the need for mindful application, urging students to approach technology as a responsibility to society. In a world where advancements like AI and IoT hold immense power to shape lives, he emphasized that students and professionals alike must consider the ethical implications of their work. Rather than focusing solely on creating efficient tools, he encouraged students to pursue innovations that contribute positively to society, improve lives, and foster inclusivity. His message resonated strongly, particularly with students from the humanities and social sciences, who were inspired to think critically about technology's role in addressing real-world issues and fostering social change.

Conclusion:

The session wrapped up with a vibrant Q&A, where students asked about the potential risks of AI and the future of the tech industry. Dr. Venkateswaran shared valuable insights, encouraging students to balance innovation with ethics. The event left participants inspired, with a deeper understanding of the trends shaping technology and the role they can play in guiding its responsible development.


1. Transportation & Logistics
AI-based driver assistance & traffic mon. systems.
Self-driving vehicles.
Deliveries by unmanned vehicles.
2. Industrial operations
Factory automation & remote control of industrial robots.
Remote inspections and maintenance, and worker's training.
Intelligent Connectivity
4. Public safety and security
Intelligent video-surveillance & security systems
Emergency services & border controls.
Emergency Drones & Robots