I²IT IEEE Student Branch Activity Report

Academic Year: 2024-25

Name of Event: Guest Session on Quantum Computing

Date: October 21, 2024

Event Mode: Offline

Duration: 1.5 hours

Venue: Convention Centre

Time: 3:00 PM to 4:30 PM

No. of Participants:105

Event Coordinator: Deepti Chaudhari

Introduction:
On October 21, 2024, the I²IT IEEE Student Branch, in collaboration with the Computer Engineering Students' Association (CESA), organized a guest session on "Quantum Computing: The Era of Utility." The event featured Ms. Guncha Malik, a Senior Technical Staff Member and Quantum Ambassador at IBM, India, who shared her expertise on quantum computing and its increasing relevance in various industries.

Activity Description:

The session covered various aspects of quantum computing, providing the attendees with an in-depth understanding of the topic.

Ms. Malik introduced the concept of quantum computing, explaining how it differs from classical computing and the significance of qubits. The session then delved into the "Era of Utility," referring to the point where quantum computing will deliver practical, real-world applications that impact industries and solve complex problems.

-Target Audience:
- • Faculty Members
- • All Students of I2IT

- **Topics Covered**:
- • Introduction to Quantum Computing
- • What is the Era of Utility?
- • Qiskit
- • The Intersection of Quantum Computing and AI
- • Industry Use Cases
- • Learning Opportunities
- • IBM Quantum Platform and Qiskit Demo

- **Activities:**

The session included a presentation and demonstration of Qiskit, allowing participants to visualize and engage with the concepts discussed. The interactive format encouraged attendees to ask questions and participate in discussions, making the learning experience enriching.
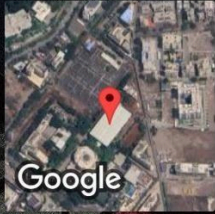
Conclusion:

The event successfully introduced participants to quantum computing's fundamental concepts and its potential future applications. Ms. Malik's engaging presentation and the live Qiskit demo offered a valuable learning experience for all attendees, sparking interest in pursuing further knowledge and research in quantum technologies.

Event Photos:

https://drive.google.com/drive/folders/1hpB9qE6EnyYOzKBKqSrfQ-7-7dgVo78_?usp=sharing

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