



PCTE-IET

B.Tech CSE IV Semester

Discrete Mathematics – BTCS 401-18

PRESENTATION SYNOPSIS

TOPIC: Sophia Robot

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BRIEF INTRODUCTION OF TOPIC: -

Sophia is a social humanoid robot developed by the Hong Kong-based company Hanson Robotics.[™] Sophia was activated on February 14, 2016,[™] and made its first public appearance in mid-March 2016 at South by Southwest (SXSW) in Austin, Texas, United States.[™] Sophia is marketed as a "social robot" that can mimic social behavior and induce feelings of love in humans . In October 2017 Sophia was granted Saudi Arabian Citizenship, becoming the first robot to receive legal personhood in any country.

KEY APPLICATION AREAS OF TOPIC IN REAL LIFE:

➤ Versatile Assistant:

Serves as a humanoid assistant in various industries, handling tasks that require human-like interactions.

➤ Customer Service Excellence:

Enhances customer service experiences by providing information, answering queries, and engaging in meaningful conversations.

➤ Healthcare Companion:

Acts as a supportive companion for patients, offering emotional assistance, medication reminders, and basic health information.

➤ Educational Support:

Plays a role in the education sector as a tutor or educational companion, aiding students in their learning journeys.

➤ Innovation Catalyst:

Inspires innovation by sparking discussions on the integration of AI and robotics, contributing to creative advancements.

CONCLUSION:

In conclusion, Sophia, the humanoid symbol of human-AI harmony, emerges as a versatile force with transformative potential. From serving as a proficient assistant in diverse industries to enhancing customer service, providing healthcare support, aiding education, and catalyzing innovation, Sophia's applications underscore her dynamic impact on real-life scenarios. As we witness her bridging the gap between humanity and artificial intelligence, Sophia not only signifies technological progress but also prompts profound reflections on the future possibilities of coexistence and collaboration. In essence, Sophia represents not just a robot but a catalyst for positive change, sparking conversations, inspiring innovation, and influencing various facets of our evolving world.

FUTURE SCOPE:

The future scope of Sophia includes advancing AI capabilities, expanding applications in healthcare and education, contributing to research and development breakthroughs, advocating for social issues, integrating into smart cities, promoting ethical considerations, ensuring technological accessibility, and fostering innovative partnerships across various industries. The ongoing evolution of Sophia holds promise for positive contributions to the fields of artificial intelligence and robotics.

FULL URL OF RESOURCES/AUTHENTIC REFERENCES USED FOR RESEARCH:

- 1) <https://www.britishcouncil.org/anyone-anywhere/explore/digital-identities/robots-citizens>
- 2) <https://www.hansonrobotics.com/sophia/>
- 3) <https://www.aljazeera.com/program/talk-to-al-jazeera/2023/8/19/robot-sophia-not-a-thing-could-stop-a-robot-takeover>