KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
Re-accredited by NAAC with A+ Grade - 4th cycle,
College of Excellence – UGC
52nd Rank among Colleges in NIRF 2024
Coimbatore - 641 029, Tamil Nadu, India

DEPARTMENT OF COMPUTER SCIENCE (AIDED)

Supported by

DBT STAR COLLEGE SCHEME

REPORT

Name of The Event	**A Guest Lecture on "Evolution of AI in Medical Field"**
Date	12.03.2025
Time	10.00AM
Venue of The Programme	C-34
Resource Person with Designation	Dr.V.Manikandan, BSMS., Medical Officer – Siddha, Sakthi Siddha Medical Centre, Kumaraguru Institutions, Saravanampatti, Coimbatore – 641049.
Objectives of the Programme	• It is to explore how AI has been integrated into various aspects of healthcare, including diagnostics, treatment, and patient care. • The goal is to examine how AI-driven tools enhance disease detection, medical imaging, and the creation of personalized treatment plans. • It is to discuss the ethical and legal challenges of AI in medicine, including concerns about data privacy, bias, and regulatory issues.
Outcome of the Programme	• AI has automated various medical processes, reducing administrative burdens and allowing healthcare professionals to focus more on patient care. • The evolution of AI in medicine has raised ethical and regulatory challenges, including concerns about data privacy, algorithmic bias, and the need for proper oversight. • Continuous advancements in AI indicate a future of personalized medicine, robotic-assisted surgeries, and improved patient outcomes.

Number of Beneficiaries with class **(Both students and faculty)**	I, II B.Sc Computer Science - 64 Faculties: 4 Dr. A.Kavitha Ms.K.Deekshana Dr.S.Radharani Dr.M.Jagadeeswari Total No of Beneficiaries : 68

Report in Detail :

Artificial Intelligence (AI) has transformed the medical field by improving diagnostics, treatment, patient care, and research. Over the years, AI has evolved from basic automation to advanced machine learning and deep learning systems that assist healthcare professionals in making accurate decisions. This report explores the historical development, key applications, challenges, and future prospects of AI in medicine.

Despite its advantages, AI in medicine faces several challenges, including data privacy concerns, algorithmic bias, and the need for regulatory approval. Ethical concerns arise regarding the reliance on AI for decision-making, as errors in AI models could lead to incorrect diagnoses or treatments. Ensuring transparency and fairness in AI algorithms remains a critical focus for researchers and policymakers.

The future of AI in healthcare is promising, with advancements in personalized medicine, robotic surgery, and AI-assisted diagnostics expected to improve patient outcomes. AI will continue to evolve, offering innovative solutions for disease prevention, early detection, and treatment optimization. As AI technology advances, collaboration between healthcare professionals and AI systems will be essential in shaping the future of medicine.

The evolution of AI in the medical field has revolutionized healthcare by enhancing diagnostics, treatment, research, and patient care. While challenges remain, the potential of AI to improve medical outcomes is immense. Continued advancements in AI-driven healthcare solutions will pave the way for a more efficient, accurate, and personalized approach to medicine.

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PHOTOS