

Title:-

Revolutionizing Reproductive Health: The Role of AI in Optimizing Fertility and Maternal Care

Abstract of the Talk :-

The field of reproductive health has historically faced significant obstacles, including issues related to infertility, maternal mortality, and inadequate availability of high-quality healthcare services. Artificial Intelligence (AI) is a field within computer science that facilitates machine learning from data. Within the domain of reproductive health, AI has emerged as a significant catalyst, fundamentally transforming the landscape of fertility therapies and maternity care. The use of predictive analytics is employed to anticipate reproductive results, granting couples the ability to make well-informed decisions and substantially enhancing the success rates of in vitro fertilization (IVF). AI also assumes a crucial role in the provision of maternal care with its ability to provide real-time monitoring of pregnancies that are at high risk, resulting in timely treatments and a decrease in maternal mortality rates. Nonetheless, the use of AI in the field of reproductive health raises ethical concerns, particularly pertaining to privacy and data security, giving rise to the need to establish an appropriate yet comprehensive regulatory framework. Real-world case studies provide evidence of the practical accomplishments of AI in enhancing reproductive health outcomes. The potential of AI in this domain is quite encouraging since it is being influenced by developing trends that are actively molding its development. The integration of AI in the healthcare sector has the potential to enhance the capabilities of the workforce, empower patients, and mitigate global disparities in reproductive health. This advancement in technology offers vast possibilities, ensuring a more hopeful and improved future for both people and families.