

# 4<sup>th</sup> INTERNATIONAL WEBINAR ON **AI ML, DATA SCIENCE AND ROBOTICS** DECEMBER 16-17, 2023 | WEBINAR



**Mr. David Nkanta**

*University of Bradford, UK*

## **Intelligent Conversational Agents for Personalized Health Diagnosis and Treatment: A Synergistic Approach of AI, ML, and Data Science and Robotics**

This research heralds a groundbreaking era in healthcare by introducing an innovative approach to disease diagnosis and treatment through intelligent conversational agents. This work stands at the crossroads of Applied AI, Machine Learning (ML), Data Science, and healthcare, presenting a transformative solution for personalized and proactive health management. The system leverages sophisticated natural language processing (NLP) algorithms, machine learning models, and data science analytics to engage in nuanced and context-aware conversations with patients. Through continual learning from diverse datasets, these conversational agents evolve, comprehending individual patient histories, genetic nuances, and lifestyle factors, thus facilitating precise health assessments and tailored treatment recommendations. Key to its success is the dynamic adaptation of the system through assimilating the latest medical research, ensuring it remains abreast of cutting-edge knowledge. The seamless integration of robotics enhances diagnostic precision and treatment execution, contributing to a more efficient healthcare delivery system. This research not only signifies a paradigm shift towards AI driven patient-centric healthcare but also addresses the growing need for accessible and personalized medical advice.

**Keywords:** Intelligent Conversational Agents, Personalized Healthcare, Machine Learning, Data Science, Natural Language Processing, Robotics

### **Biography**

**Mr. David Nkanta** is an AI and Machine Learning researcher who has carried out research in the following areas: The Application of Machine Learning in Accident Prediction, The Comparative Study of the Application of Machine Learning in the Prediction of Breast Cancer, Intelligent Conversational Agents for Personalized Healthcare diagnosis and Treatment. He is a Masters Graduate of the University of Bradford in Big Data Science and Technologies.