

## **INTRODUCTION TO ARTIFICIAL INTELLIGENCES AND MACHINE LEARNING**

AI (Artificial Intelligence) has revolutionized various industries, including healthcare. It holds immense potential to transform patient care, improve outcomes, and streamline administrative tasks. AI algorithms and techniques can be applied in different healthcare domains, such as disease diagnosis, outcome prediction, treatment plan optimization, and patient monitoring. By leveraging AI, healthcare providers can harness the power of advanced data analysis, pattern recognition, and predictive modeling to make more informed decisions. However, selecting appropriate AI algorithms and techniques is crucial for successful implementation (1). This requires considering factors like data compatibility, domain expertise, algorithm suitability, and collaboration among stakeholders. By effectively integrating AI into healthcare systems and reducing errors in algorithm selection, the industry can unlock the benefits of AI to enhance patient care, efficiency, and overall healthcare delivery tasks. This paper proposes an AI algorithms and techniques in healthcare holds great promise for improving patient care, optimizing treatment plans, and streamlining administrative tasks. By leveraging AI, healthcare providers can harness the power of advanced data analysis, predictive modeling, and pattern recognition to enhance decision-making and patient outcomes.

However, selecting appropriate AI algorithms and techniques is crucial to ensure success. Key considerations for reducing errors in algorithm selection include clearly defining objectives, involving domain experts, evaluating algorithm suitability, conducting literature reviews, and implementing proof-of-concepts. Collaboration among healthcare professionals, data scientists, and IT experts is essential for effective integration with legacy systems and infrastructure