

(54) Title of the invention : AI AND MACHINE LEARNING BASED MEDICAL DATA/RECORD MAINTENANCE SYSTEM AND PREVENTION OF CYBERATTACK IN MEDICAL INFORMATION MANAGEMENT SYSTEM (IMS) IN CLOUD USING ENHANCED ARTIFICIAL NEURAL NETWORK (ANN)

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(57) Abstract :

AI AND MACHINE LEARNING BASED MEDICAL DATA/RECORD MAINTENANCE SYSTEM AND PREVENTION OF CYBERATTACK IN MEDICAL INFORMATION MANAGEMENT SYSTEM (IMS) IN CLOUD USING ENHANCED ARTIFICIAL NEURAL NETWORK (ANN) ABSTRACT: This research paper centres its attention on the utilisation of 'black box' artificial intelligence (AI) in the field of medicine. It raises the question of whether physicians are obligated to inform patients about the potential risks associated with AI, including cyberattacks, systematic bias, and a specific form of incongruity between the implicit assumptions of AI and the unique background circumstances of individual patients. Based on the prevailing standards in clinical practise, I contend that, in specific situations, it is necessary to communicate these risks. Alternatively, if the physician fails to adequately tell the patient, they may undermine the patient's informed consent or breach a broader duty to provide warning on potential adverse outcomes. In order to substantiate this perspective, I posit two primary arguments. Firstly, the prevailing criteria for assessing risks, namely their nature and likelihood, strongly advocate for the disclosure of those risks. Secondly, upon careful examination, philosophical objections against the disclosure of these risks fail to bear critical scrutiny. Furthermore, it is important to note that these hazards are further amplified by pandemics such as the current COVID-19 outbreak, hence underscoring their utmost importance.

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