

An Overview of Responsible AI in Healthcare

Short Paper

Mohamed Abdelhamid

California State University Long Beach

Mohamed.abdelhamid@csulb.edu

Musharraf Shaikh

California State University Long Beach

musharraf.shaikh01@student.csulb.edu

Abstract

The last couple of years have been evolutionary for AI, specifically, with the advancement of generative and conversational AI. Examples of possible AI use cases in healthcare include inquiring about health issues. However, unlike other industries healthcare is a much more sensitive context with significant risks. Whenever AI is involved in a decision-making process related to the health of an individual, the issue of Responsible AI arises. Responsible AI refers to the set of principles developed to guide the development, implementation, and use of AI systems in a way that is ethical, safe, trustworthy

Given that responsible AI is an infant concept and thus has not been applied widely in developing and improving AI models, more specifically healthcare-related AI models, we evaluate the current state of research of focusing on responsible AI in healthcare. In this study, we conduct and present a systematic literature review of healthcare research incorporating responsible AI with the goal of directing future research in this rapidly changing and growing field.