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Taming Unleashed Large Language Models with Blockchain for Massive Personalized Reliable Healthcare

The digital health field's pursuit of massive personalized healthcare continuously faces constraints from doctors'resource limitations. Recently, the emergence of large language models (LLMs), with their remarkable comprehension and processing abilities, is revolutionizing digital health and enhancing massive personalized healthcare. While LLMs bring significant advancements, they also present inevitable misdiagnosis and bias, which impacts patient safety in massive personalized applications. To address these issues, we propose Chat ChainBrain Based Doctor (CHATCBD): a digital hospital for massive personalized reliable healthcare service. First, multiple LLMs are employed to simulate various medical roles, including triage nurses, specialist doctors, and supervising doctors, while establishing an internal self-audit mechanism to enhance their reliability. Second, CHATCBD uses blockchain technology for the decentralized external regulation of the LLMs'personalized diagnosis. A mathematical model based on blockchain ensures both the professionalism and honesty of these audits. Additionally, blockchain as a shared memory resolves the absence of a unified and reliable medical history for multi-agent collaborative reasoning, which improves patient-centered decision making. Experimental results on 13 datasets from multiple perspectives establish that CHATCBD excels in enhancing the capabilities of LLMs in personalized healthcare...

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