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AI-Enhanced Chatbots for Real-Time Symptom Analysis and Triage in Telehealth Services Safeguarding Financial Data

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AI-enhanced chatbots are transforming telehealth services by enabling real-time symptom analysis and automated patient triage. Traditional healthcare systems often face challenges such as long wait times, resource constraints, and accessibility barriers. AI-driven chatbots leverage Natural Language Processing (NLP) and Machine Learning (ML) to analyze patient symptoms, assess risk levels, and provide preliminary medical guidance. These intelligent systems enhance telehealth by streamlining patient intake, prioritizing urgent cases, and reducing the burden on healthcare providers. Additionally, chatbot-driven triage improves patient engagement, ensures timely interventions, and facilitates remote healthcare access. However, challenges such as diagnostic accuracy, data privacy, and regulatory compliance must be addressed to ensure ethical and effective deployment. This study explores the capabilities, benefits, and limitations of AI-powered chatbots in telehealth, highlighting their potential to improve efficiency, accessibility, and patient outcomes in modern healthcare ecosystems.