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## Unveiling WhatsApp Chat Insights: A Comprehensive Analysis of Conversational Patterns and User Behavior in Streamlit Framework using Machine Learning

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**Abstract:** Massive libraries of textual discussions have been created as a result of the widespread usage of instant messaging services like WhatsApp, which has revolutionized how people communicate. This study goes into the world of WhatsApp chat insights, offering a thorough examination of user behavior and linguistic trends. We seek to uncover important insights buried in WhatsApp chat data using data analytics approaches, natural language processing (NLP) algorithms, and machine learning. In order to identify patterns, trends, and user behavioral traits from WhatsApp chat records, this study proposes a methodical technique.

**Keywords:** User behavior, Natural language processing (NLP), Machine learning, Streamlit framework, Statistics

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