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Whatsapp Chat Analyzer

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Abstract: In recent times, the widely used and efficient communication method is the WhatsApp application, which facilitates conversations among groups of individuals covering a variety of topics. These WhatsApp chats contain a wealth of data that can be harnessed for cutting-edge technologies like machine learning. The key factor for successful machine learning models is providing the right learning experience, a factor directly influenced by the quality and quantity of the data provided to the model. This tool aims to offer comprehensive analysis of the data derived from WhatsApp conversations, regardless of the topic being discussed. The code developed for this purpose allows for a deeper understanding of the data. The tool leverages the simplicity and effectiveness of Python modules such as pandas, matplotlib, and seaborn, which facilitate the creation of data frames and the visualization of diverse graphs. The results are then displayed in a web interface using the Stream lit framework, enabling compatibility with all devices that support web browsing. The advantage of this tool lies in its efficient implementation, as it consumes fewer resources and can be easily applied to large datasets. By utilizing this tool, users can gain valuable insights and unlock the potential hidden within their WhatsApp chat data.

Keywords: WhatsApp Chat Data, Pandas, Seaborn, Matplotlib, Streamlit.

REFERENCES

- In the publication titled "Analysis on Social Media Addiction using Data Mining Technique," authors D. Radha, R. Jayaparvathy, and D. Yamini delve into the examination of social media addiction through the utilization of data mining techniques. This research is published in the International Journal of Computer Applications (0975 -8887).
- [2] "Python for Everybody: Exploring Data in Python 3" is a comprehensive book written by Dr. Charles Russell Severance. This book serves as a resource for individuals seeking to explore and analyze data using the Python programming language.
- [3] "Storytelling with Data: A Data Visualization Guide for Business Professionals" authored by Cole NussbaumerKnaflic offers valuable insights and guidance for professionals in the business domain who wish to effectively communicate data-driven narratives through compelling data visualizations.Res Lett. 2021 Dec 5;16(1):173. DOI: 10.1186/s11671-021-03628-6. PMID: 34866166; PMCID: PMC8645667.

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