**WhatsApp Chat Analyzer**

This repository contains my personal project **WhatsApp Chat Analyzer**, a Python-based tool that helps you explore and visualize insights from exported WhatsApp chats. Built with a focus on simplicity and interactivity, this project reflects my learning in data analysis, visualization, and Python development.

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**📌 Introduction**

**WhatsApp Chat Analyzer** is a lightweight tool that allows users to upload their exported WhatsApp chat files and receive detailed insights about their conversations. From message trends to emoji usage, this tool helps uncover patterns in your chats using data visualization and basic NLP techniques.

This project was developed as part of my learning journey in Python, data analysis, and Streamlit. It uses open-source libraries like Pandas, Matplotlib, Seaborn, and WordCloud. You can find all dependencies listed in the requirements.txt file.

**✨ Features**

* 📊 **Chat Statistics**: Total messages, word count, media shared, and links.
* 👥 **Participant Analysis**: Most active users, message frequency, and contribution.
* 📅 **Daily & Monthly Trends**: Visualize how chat activity changes over time.
* 😊 **Emoji Insights**: Discover the most used emojis in your conversations.
* ☁️ **Word Cloud**: See the most frequently used words in a beautiful cloud.
* 📈 **Interactive Visuals**: Clean and interactive charts using Streamlit.
* 🌐 **Optional NLP**: Language detection and sentiment analysis (if enabled).

**⚙️ Installation**

To run this project locally:

1. Clone the repository:
2. git clone https://github.com/ayushgehlot/WhatsAppChatAnalyzer.git
3. Navigate into the project folder:
4. cd WhatsAppChatAnalyzer
5. Install the required libraries:
6. pip install -r requirements.txt
7. Launch the Streamlit app:
8. streamlit run main.py

**🚀 Usage**

* Export your WhatsApp chat as a .txt file (without media).
* Run the app locally or deploy it using Streamlit Cloud.
* Upload your chat file in the app interface.
* View insights like message trends, emoji usage, and word clouds.

**📷 Examples**

* Analyze group chat activity over time.
* Visualize the most used words in a one-on-one conversation.
* Compare participation levels among group members.