



DAILY WORK
REPORT
TR-02

INFOWIZ
6 JULY 2024

Day 27: Final Project Implementation

Summary: Today, we started implementing our final project for the WhatsApp chat analyzer. The focus was on setting up the initial framework, preprocessing the dataset, and beginning the development of key functionalities.

Key Activities:

1. Dataset Preparation:

- Selected and downloaded the WhatsApp chat dataset to be used for analysis.
- Verified the integrity of the dataset and ensured it aligns with the project objectives.

2. Data Preprocessing:

- Cleaned the dataset by removing irrelevant information and formatting the data into a structured format suitable for analysis.
- Applied text preprocessing techniques such as tokenization, removing stopwords, and stemming to prepare the textual data for further analysis.

3. Initial Setup:

- Created a basic project structure, including necessary directories and files for organizing code and documentation.
- Set up the development environment with required libraries and frameworks (e.g., Python, scikit-learn, TensorFlow).

4. Exploratory Data Analysis (EDA):

- Conducted preliminary EDA to gain insights into the dataset:
 - Analyzed message frequency over time.
 - Identified common topics or themes in the chat conversations.
 - Visualized data trends using plots and charts to understand data distribution.

5. Planning Next Steps:

- Outlined the next steps and milestones for the project implementation:
 - Finalizing the approach for sentiment analysis or other ML techniques to be applied.
 - Defining metrics for evaluating model performance.
 - Setting deadlines for completing each phase of the project.

Challenges Faced:

- Ensuring the dataset is comprehensive and representative of typical WhatsApp chat data.
- Implementing efficient data preprocessing techniques to handle text data variability and complexity.

Next Steps:

- Continue refining the preprocessing pipeline and preparing data for model training.
- Implement the selected machine learning algorithms for analyzing chat sentiment or other relevant tasks.
- Monitor progress and adjust the project plan as needed to meet the final project deadline.

Today's progress marks a significant step towards realizing our project goals. By laying the groundwork and addressing initial challenges, we are on track to successfully implement a functional WhatsApp chat analyzer leveraging machine learning techniques.

