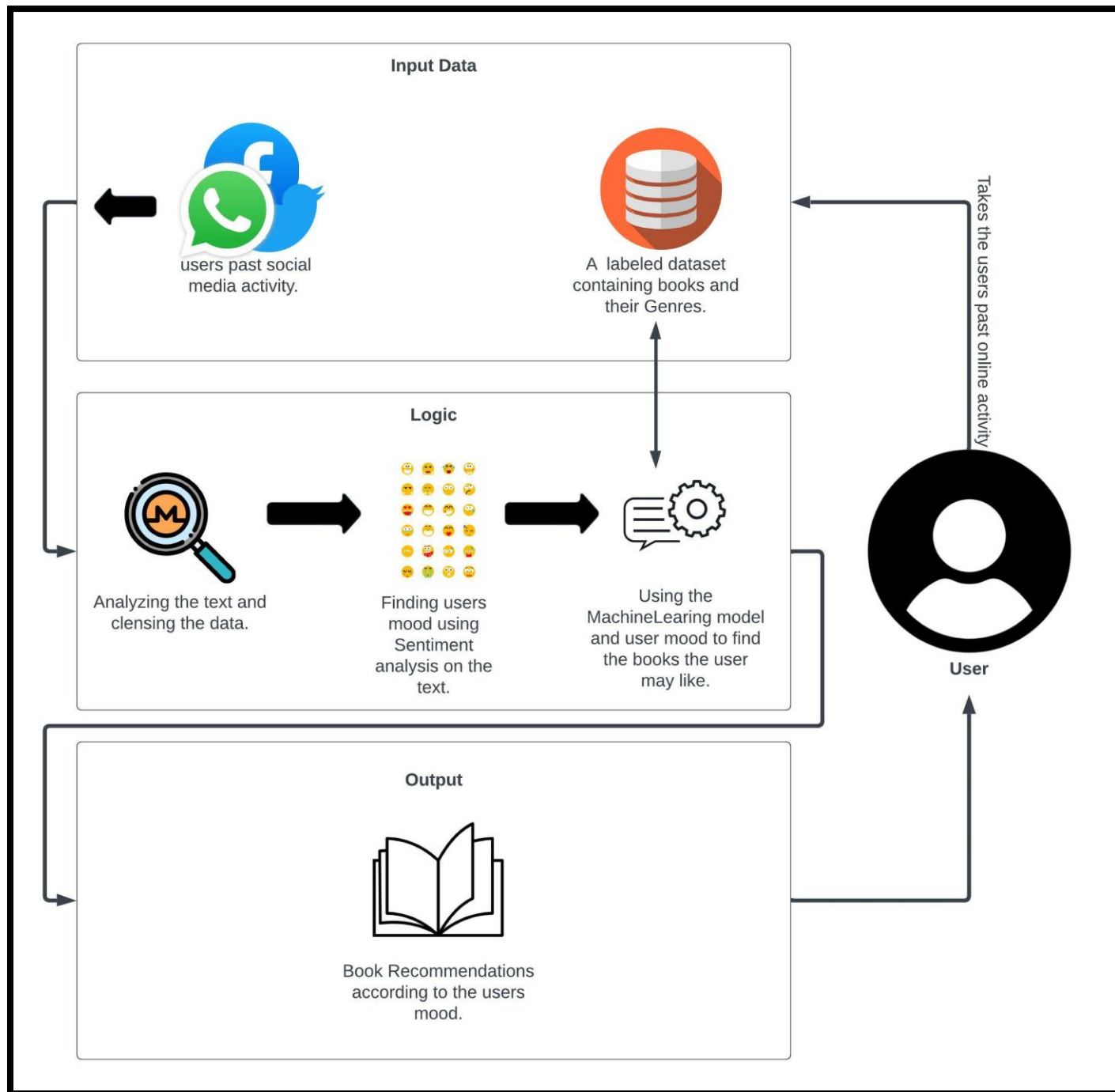


Book Recommendation System Using Sentiment Analysis

1. Prototype diagram



2. Aim of project and Description

Choosing a book can be hard as there are multiple Genres to choose from nowadays it can often be time consuming to find a book that is suited to your taste and current mood.

This project aims to Recommend books to users using their past online activity, this can be done by tracking the users online activity which could be something they texted or posted using sentiment analysis to understand what kind of mood the user is in, and recommending books according to the users mood.

3. Research Gap

In work such as (Fujimoto and Murakami, 2022) the author manages to use sentiment analysis in finding the users emotions and also manages to use more complex emotions from the basic (happy, neutral and sad).

A gap can be identified in (Fujimoto and Murakami, 2022) where the book recommendation system after the user emotions are retrieved only uses a sentiment analysis model but the recommendation system could be further enhanced by incorporating a machine learning model.

proposed a method that identified recommended books based on the similarity between the contents and emotions that are included in the content of the users' interest and books. We experimentally confirmed our proposed method's effectiveness by comparing its results with Amazon's recommendation results.

In the future, we will improve the usability of our proposed method by reviewing it and the conditions of getting tweets related to user content of interest to increase its flexibility.

The author also talks about how this system could be improved by getting the data of the content the user consumes daily such as what appears on their social media feed.

Sentiment analysis with complex emotions - (Monett et al., no date)

References

Fujimoto, T. and Murakami, H. (2022). A Book Recommendation System Considering Contents and Emotions of User Interests. 23 September 2022. Institute of Electrical and Electronics Engineers (IEEE), 154–157. Available from <https://doi.org/10.1109/iiiaai55812.2022.00039>.

Monett, D. et al. (no date). *Emotion Level Sentiment Analysis: The Affective Opinion Evaluation Sentimental Spaces: Conceptual Spaces for Lexical Sentiment Polarity Representation with Contextual Quality*. *Emotion Level Sentiment Analysis: The Affective Opinion Evaluation*.