



香港中文大學圖書館

The Chinese University of Hong Kong Library

Data Analytics Practice Opportunity 2024/25

CHINESE MODERN POETRY: ANALYZATION, VISUALIZATION AND IMAGE GENERATION

BY

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INTRODUCTION

Chinese modern poems can be challenging to understand, even for Chinese readers. This project analyzes 579 poems from 45 issues (2013–2024) of 《小說與詩》. Using data analytics, we explored the emotions, word usage, and author-related information of these poems. Additionally, we generated one image per poem to visually convey its core message through a closed-loop image generation workflow.

We would like to acknowledge Mr. 魏鵬展, editor of 《小說與詩》.

BASIC DATA ANALYSIS

To gather insights into Chinese modern poetry, we analyzed various aspects, including sentiment, word count, linguistic complexity and author details.

The results are presented through visualizations such as word clouds, histograms, correlation matrices, and more.

The following are two selected findings, Correlation Matrix and Cumulative Distribution of the Number of Poems per Author:

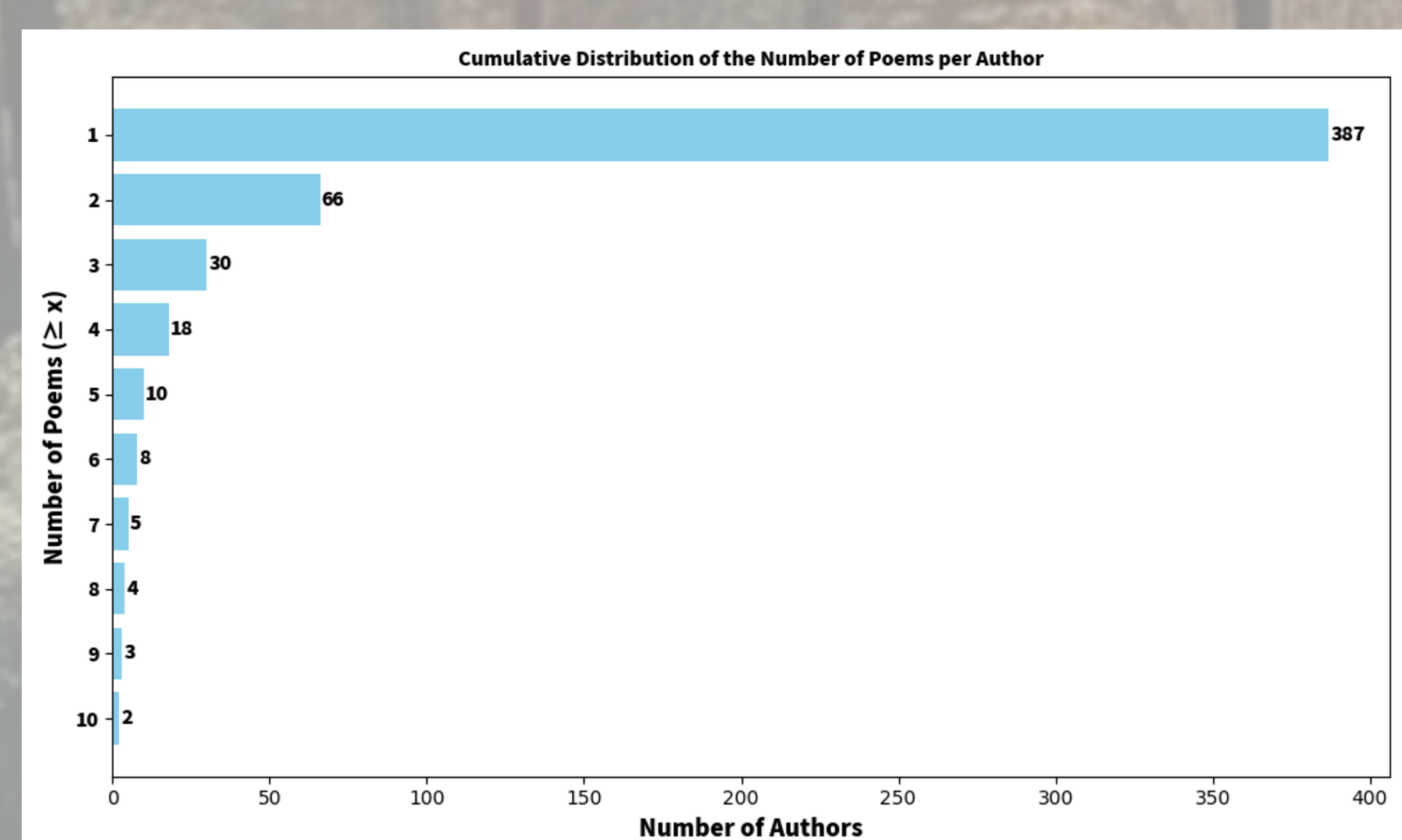
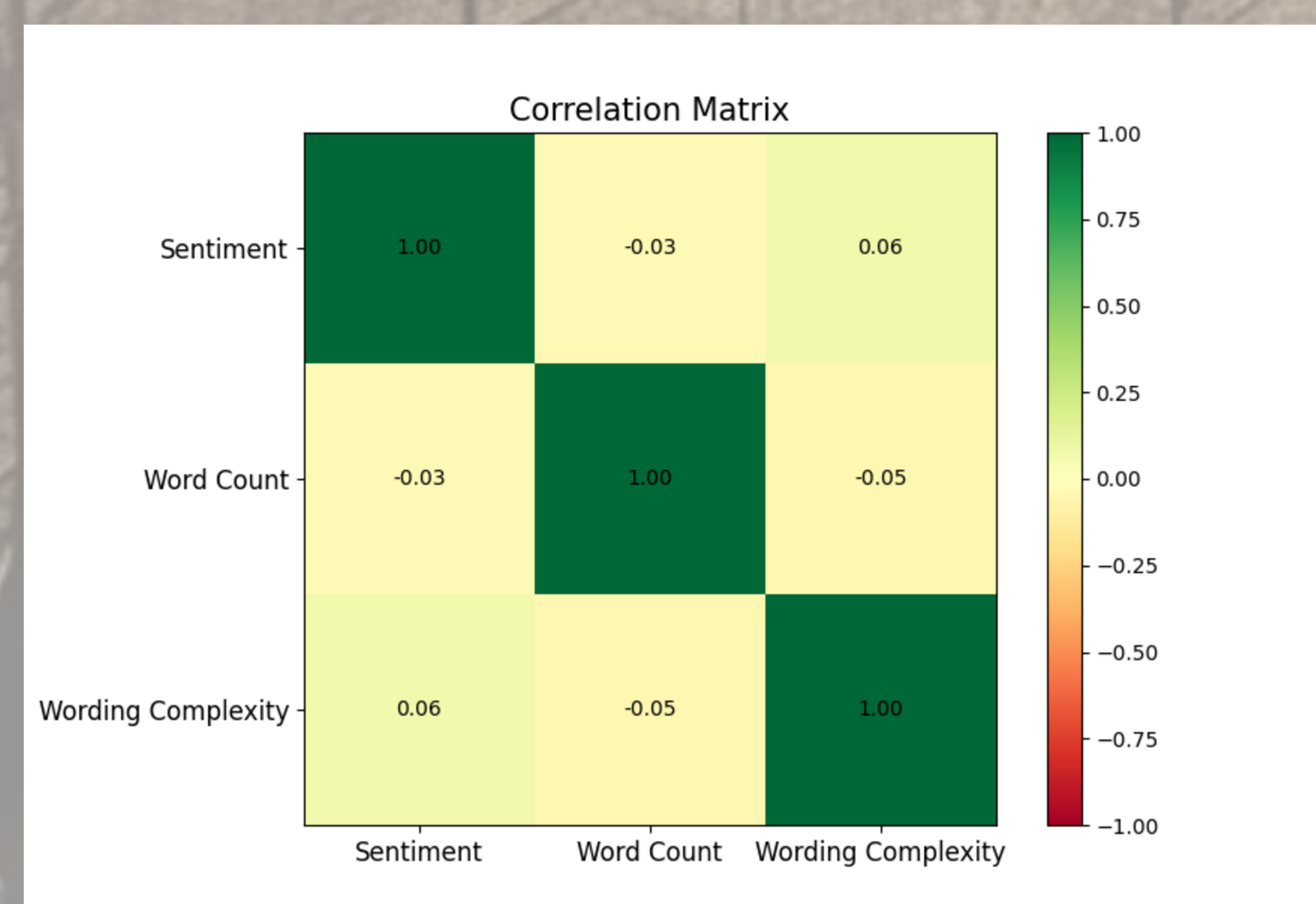


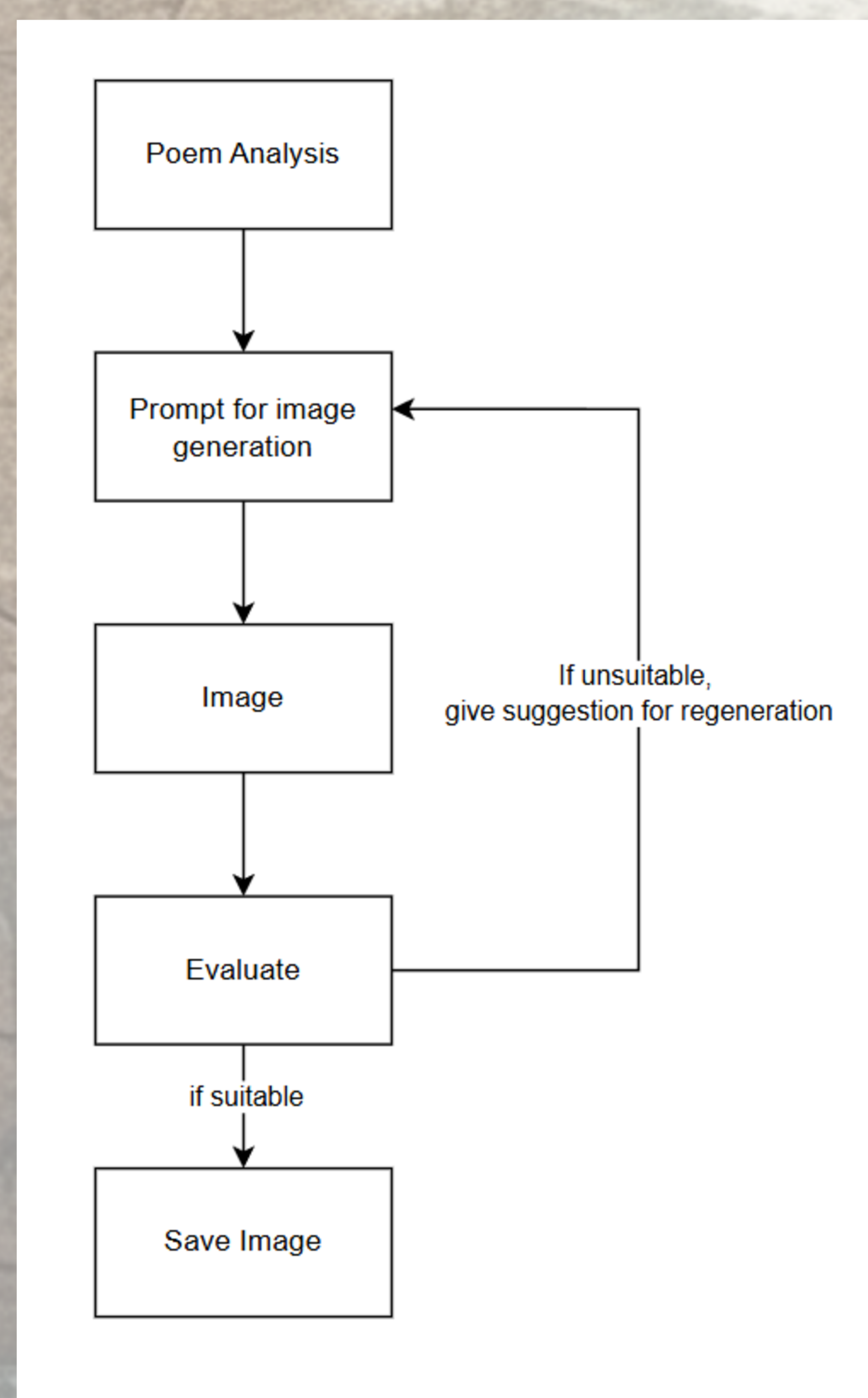
IMAGE GENERATION

This part of the project aims to help readers to better grasp the core message of each poem.

The closed-loop image generation workflow includes an evaluator that assesses the quality of the generated images.

If an image is deemed unsuitable or fails to represent the poem accurately, it is regenerated.

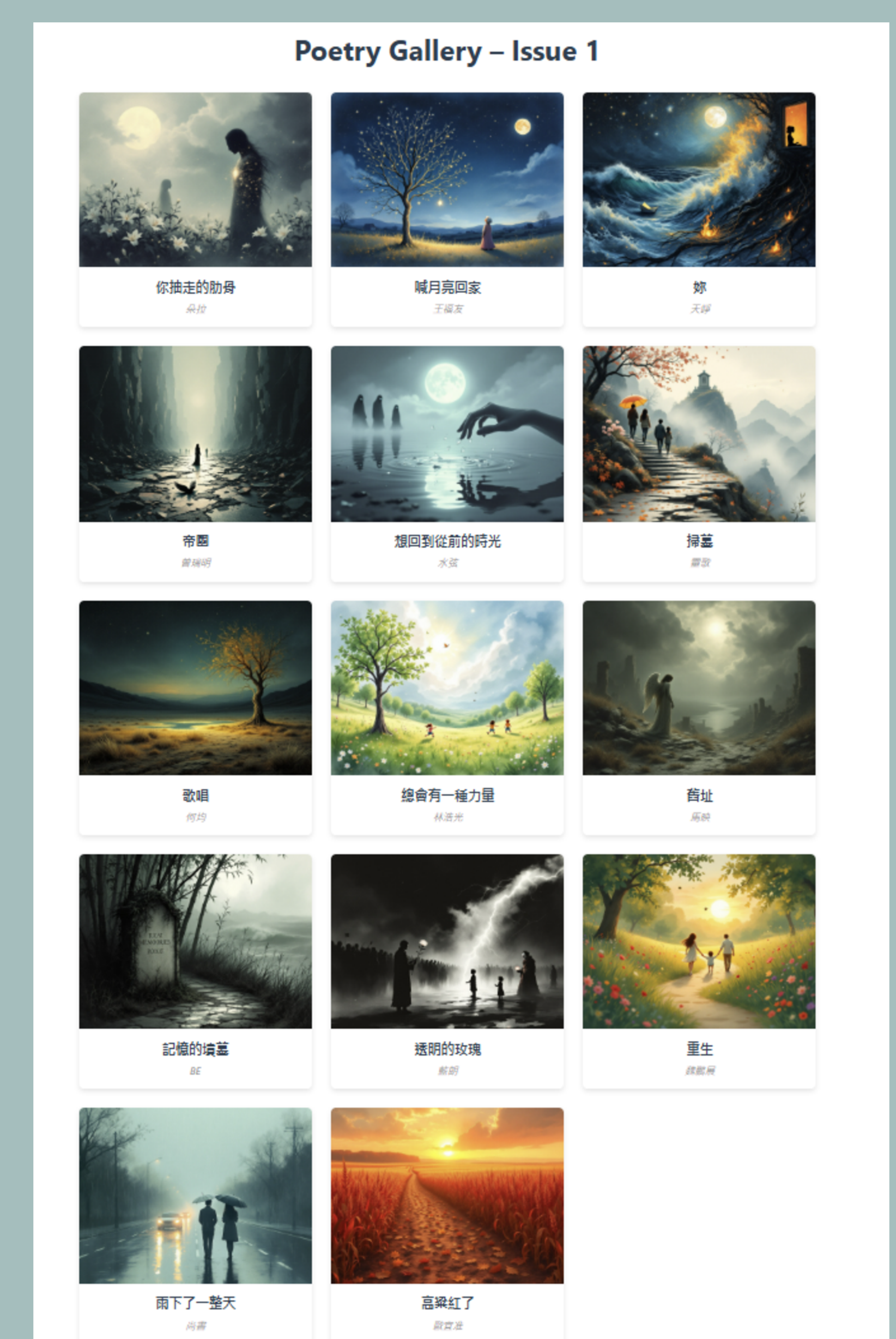
The following is the workflow:



RESULTS & DISCUSSION

We successfully analyzed all 579 poems, with each poem averageing around 100 words. Sentiment analysis revealed that most poems convey extreme emotions—either positive or negative—with a few being neutral.

The generated images, along with their corresponding poems, are presented in a gallery format on the website.



(LINK TO THE WEBSITE)

More about this project: <https://dsprojects.lib.cuhk.edu.hk/en/projects/chinese-modern-poetry/introduction/>
If you would like to reuse the data, please contact data@cuhk.edu.hk.