

# **Executive Summary**

## **Summary:**

Twiflower uses AI to recognize flowers around and help you gain knowledge of the flowers from Wikipedia. Moreover, it can conduct a sentiment analysis on the most recent tweets concerning the keywords user provides. It helps users know what people are thinking of the issues recently.

## **Key Features:**

1. Identify flowers with AI
2. Get more information through wikipedia pages
3. Fetch data through Twitter Developer API and conduct sentiment analysis based on the most recent tweets
4. Help you quickly know what people are thinking of certain issues on Twitter

## **Technical Details:**

1. The flower recognition part recognizes the flower photos taken by the users by applying the flower classifier machine learning model, then uses the result (flower name) to fetch relevant information from the wikipedia pages. It also provides a window for users to see more information via going through the safari browser.
2. The tweet sentiment analysis part fetches the most recent 100 tweets concerning the keywords provided by the users through Twitter standard APIs, then conduct sentiment analysis on these tweets via the NLP model trained before, and finally delivered a emotional score as the result.

