

# Pollen Allergy Data Analysis







# Motivation

- Get valuable information
- User symptoms
- Medical treatments



# Data description

## Data set 1

- User ID, Date, Location, Region, Overall Symptoms
- Different kind of symptoms:
  - Eye itching, Nose sneezing, Lungs Symptoms
- Different medicine taken:
  - Eye drops, Nose drops, Tablets

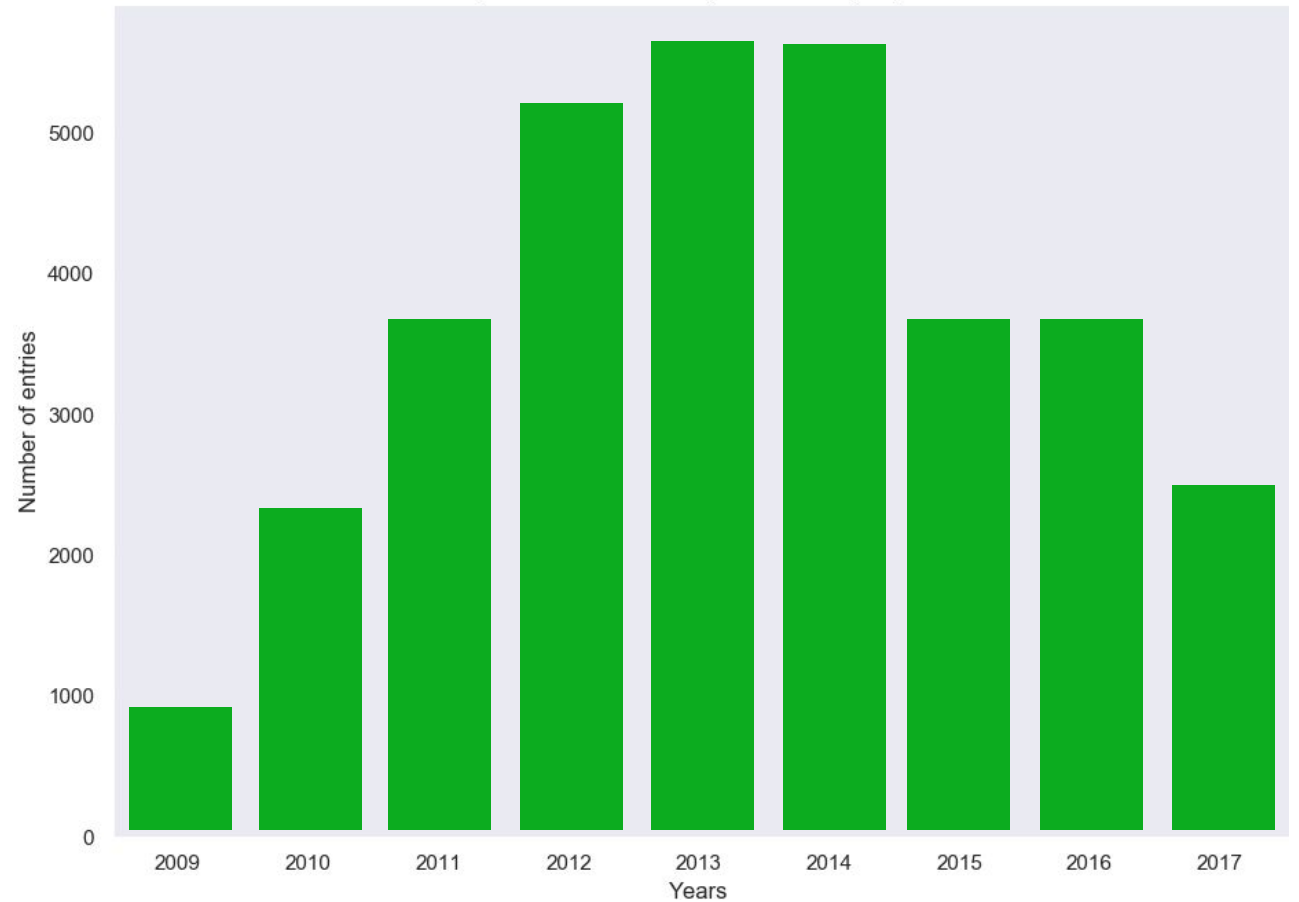
## Data set 2

- 365 days, Different kind of pollen



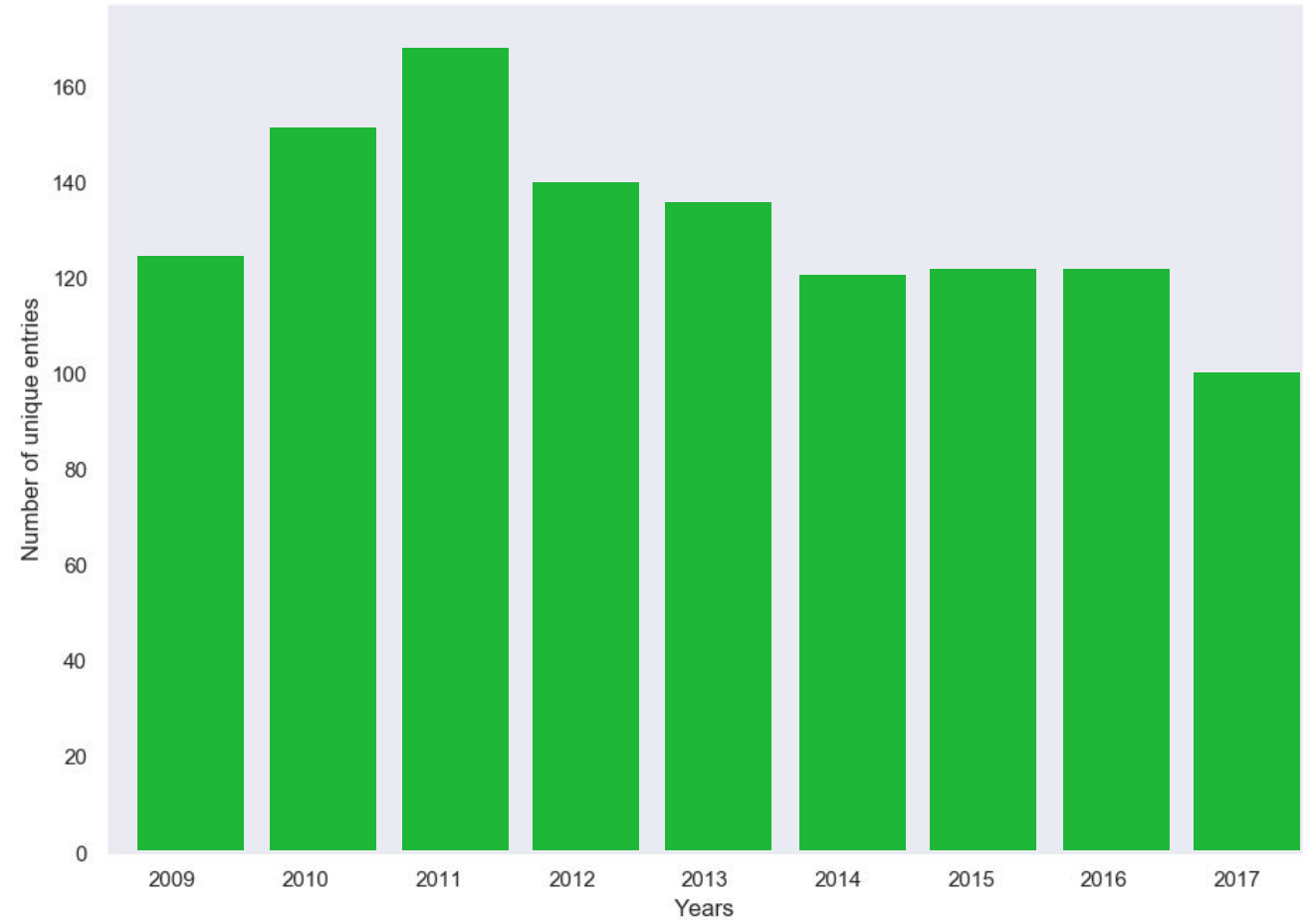
# Entries per year

Representation how many entries were per year.



# Unique users

Representation of unique number of users per year.

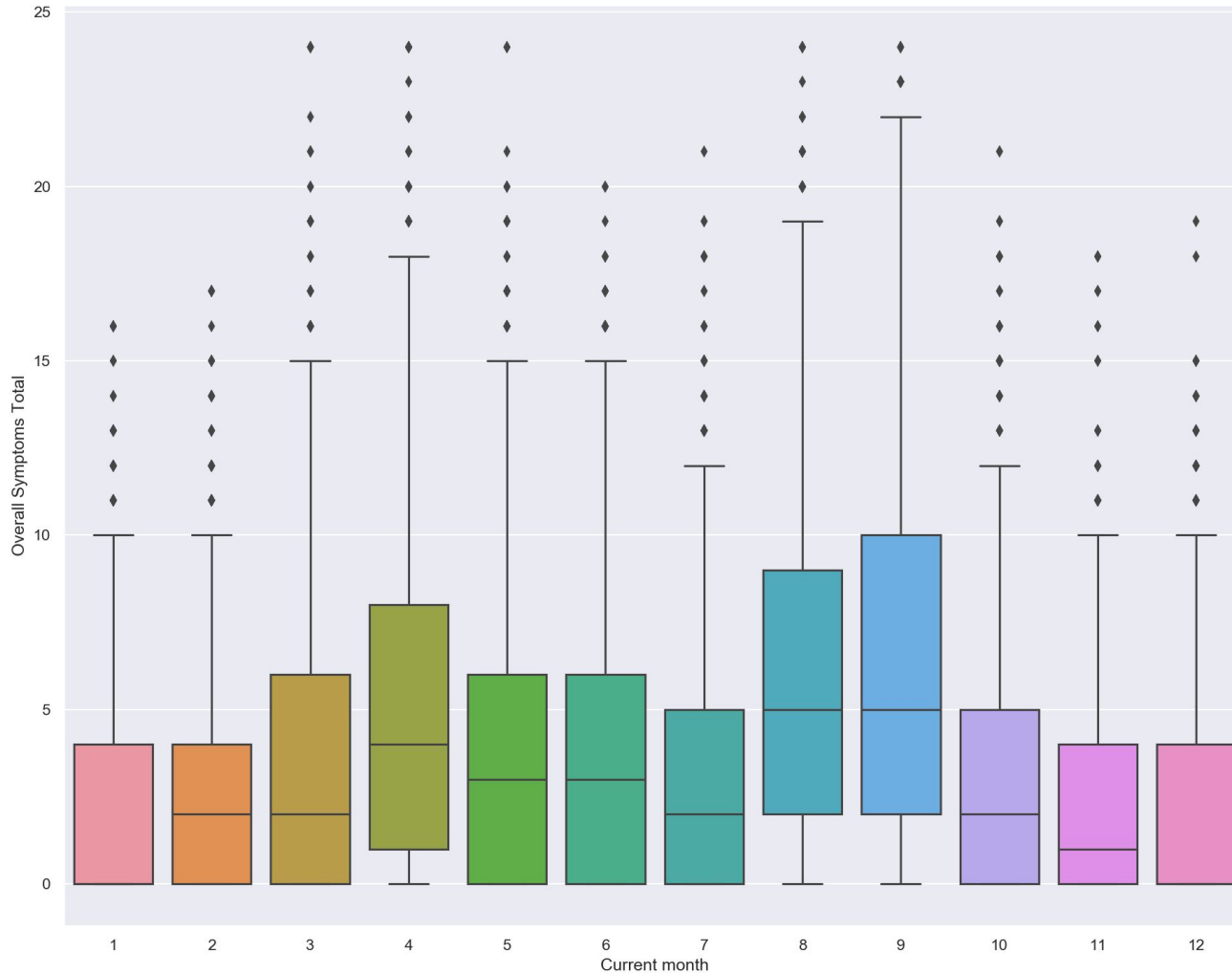




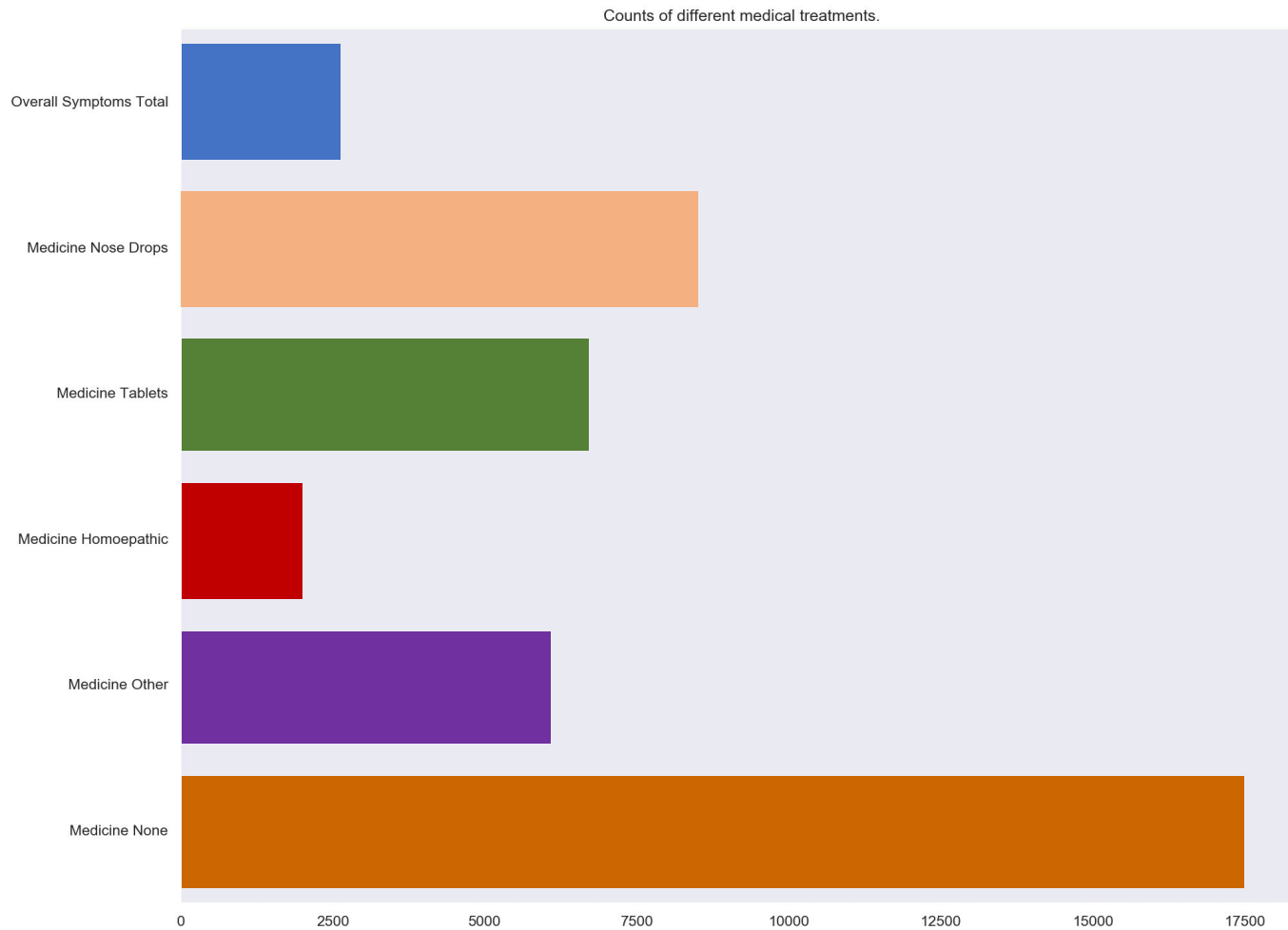




# Overall symptoms on month level



# Counts of different medical treatments



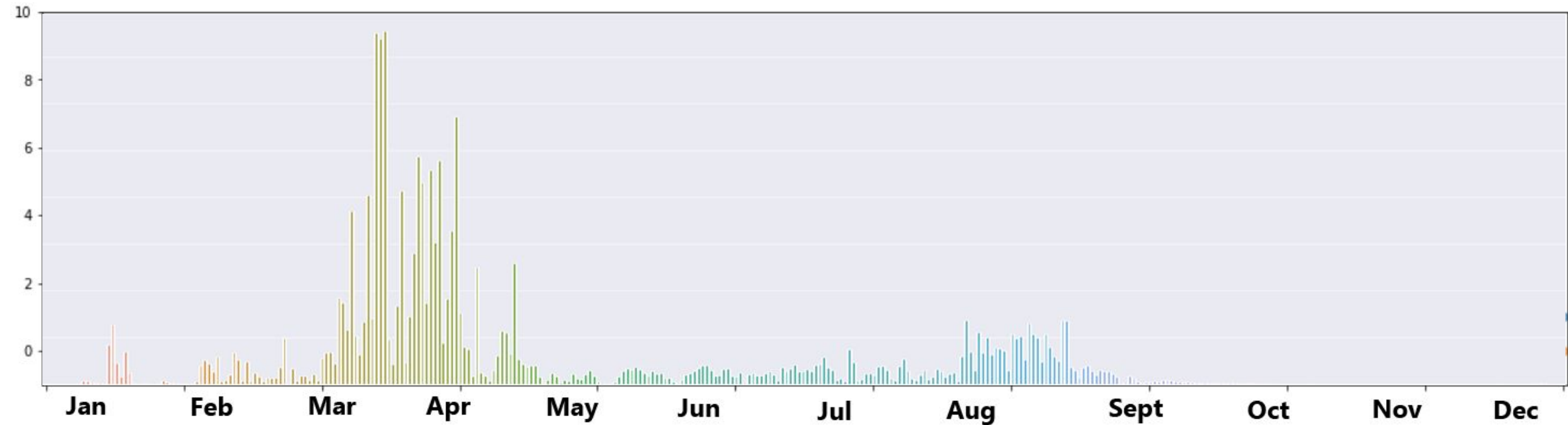


# Top 10 users

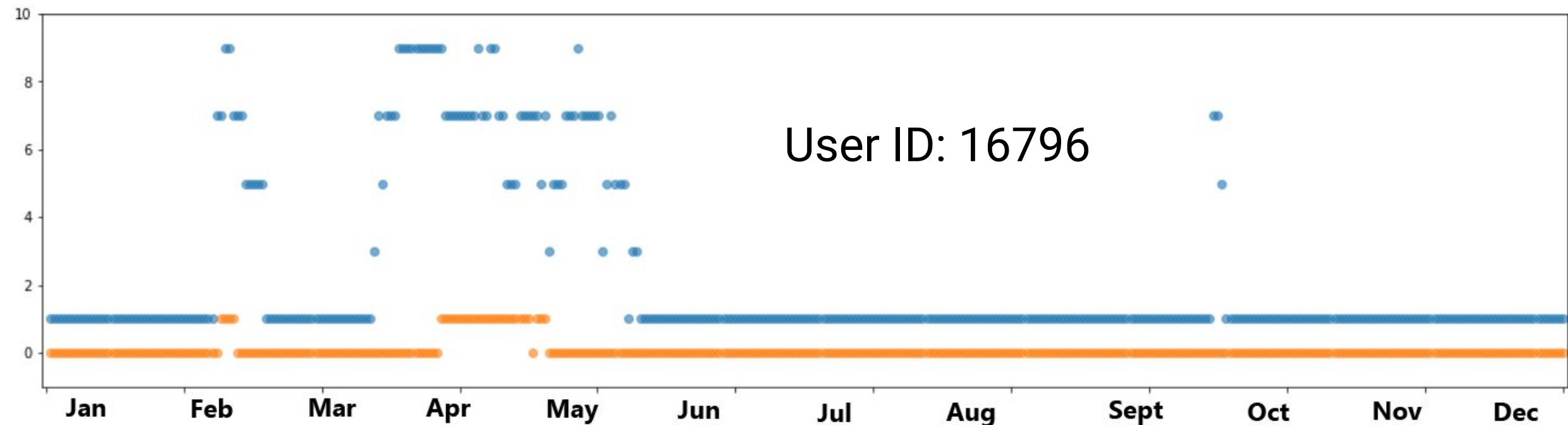
- User with ID 16769 made 2259 entries
- User with ID 10021 made 1515 entries
- User with ID 37561 made 1308 entries
- User with ID 17507 made 1303 entries
- User with ID 9862 made 1197 entries
- User with ID 20686 made 1120 entries
- User with ID 25782 made 972 entries
- User with ID 89069 made 736 entries
- User with ID 21089 made 734 entries
- User with ID 2747 made 717 entries



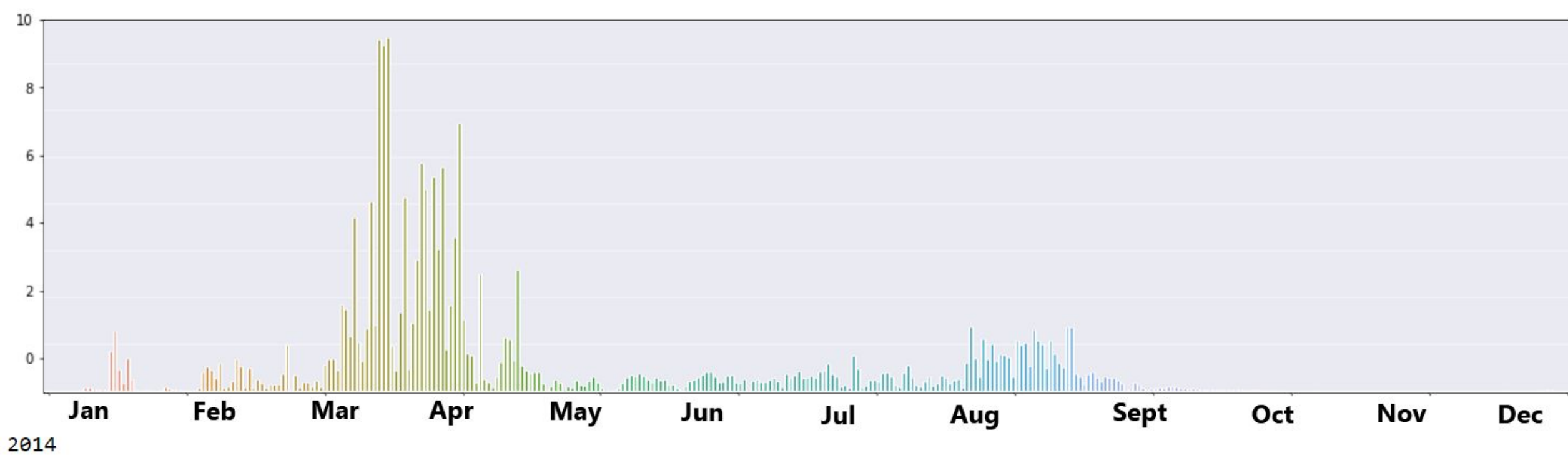




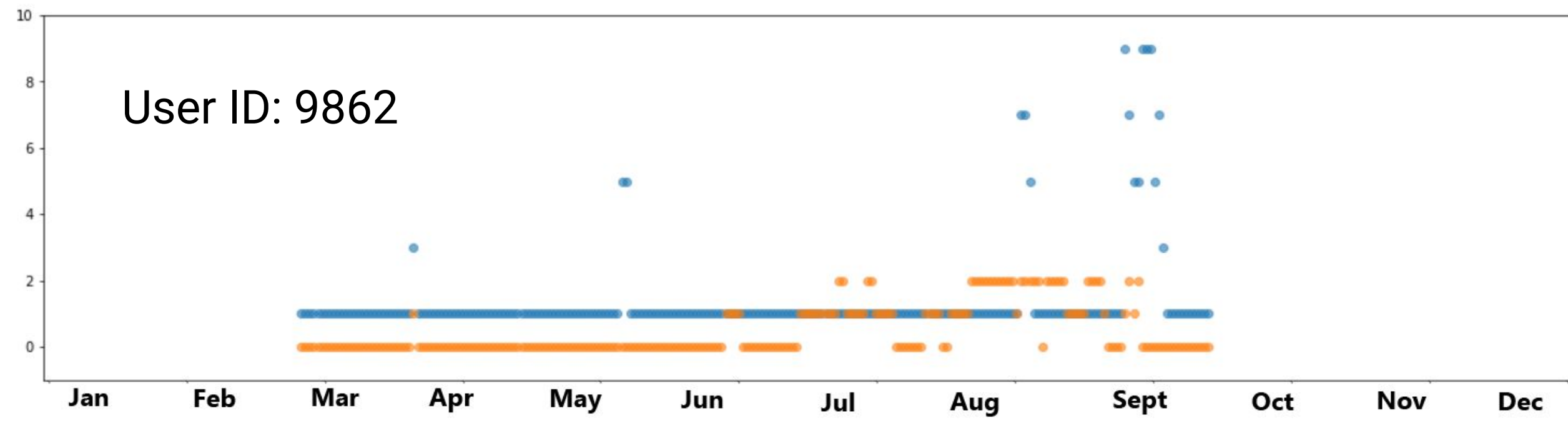
2014





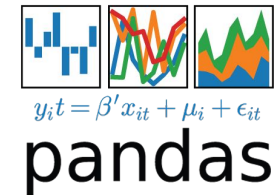
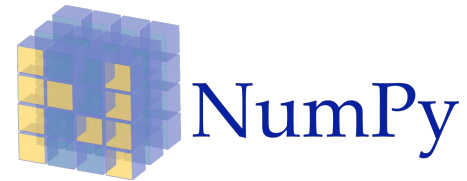


2014





# List of Python packages and functions



- Collection, counter
- Itertools
- Operator
- Datetime

- Calendar
- Time
- Math
- Os

# Conclusions

- Period Mart, April and August, September pollen season
- In this period user symptoms increase
- Also medications increase



# Ideas for future work

- Adding Gender and Age
- Tracking the weather





A low-angle photograph looking up at the branches of a tree. The branches are covered with vibrant green leaves and long, drooping white catkins, likely from a birch tree. The background is a clear, bright blue sky. The entire image is framed by a thick green border.

Thank you for  
your attention