

CS210 - Term Project

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Instagram user habit analysis



Why?



INCREASED USAGE IN SUMMER ENDED
IN DELETION OF APP FROM MOBILE
PHONE



CURIOSITY TO GET INFORMATION
ABOUT EFFECTS

Expectancy



Change on distrubiton of
messages in daytime



Decrease in usage time

The background of the slide is a photograph of a desk. It features a white computer keyboard, a calendar with dates like 16, 23, 24, 25, 29, 30, and 31 visible, and several books or notebooks with colorful tabs (purple, teal, orange) sticking out. The image is dimmed to serve as a backdrop for the text.

How I collected the data

- Instagram has feature to request your own data
- I requested my own data of 2023
- But in data there is no kind of data about your usage time

Needed to
analyse my user
habit and find a
way to calculate
usage time.

I watch reels

I do not look stories

Chat with my friends and
react to videos they sent me

- If I watch reels, I share it with my friends

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You sent an attachment.
if plan a don't work, this is my plan b
newchxppa
<https://www.instagram.com/reel/CzUt>

Dec 12, 2023, 5:06 AM

- If I look stories, I only look my close friends and react them

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Any comments on stories directly end in chat

Jun 26, 2023, 9:27 AM

- If I get messages, I reply or text back
- I do not like any content
- I do not post anything

As a result all of my activities can be tracked using chat logs

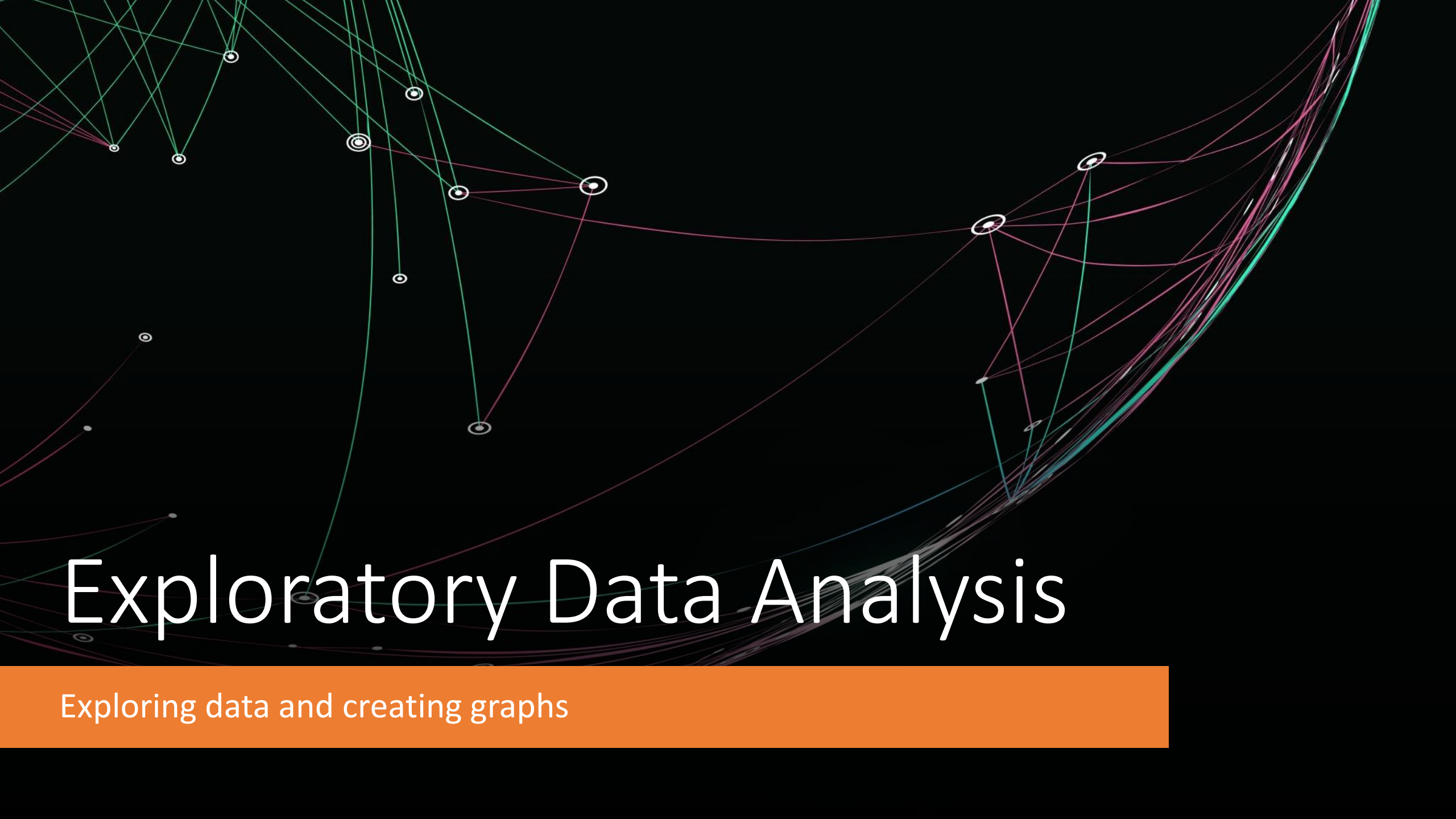


Web scraping

- Instagram provide static htmls for chat logs

- As only logs by me shows my usage, I only scraped my data and for privacy I did not scrape any content of any message

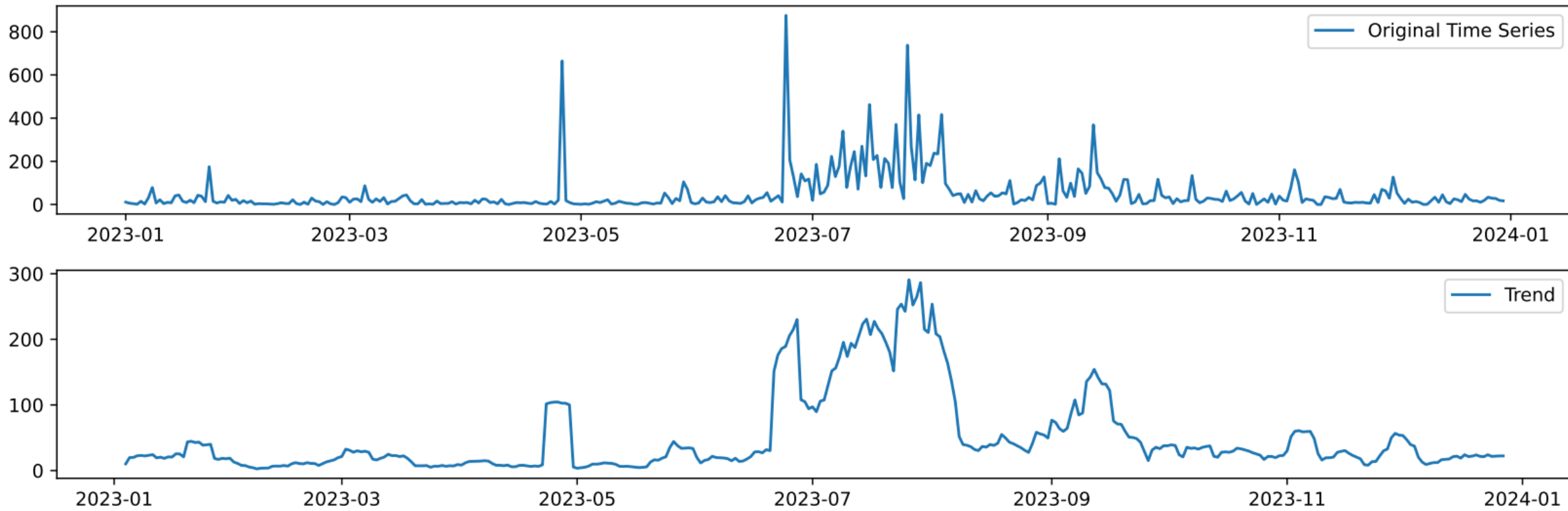
[illegible]



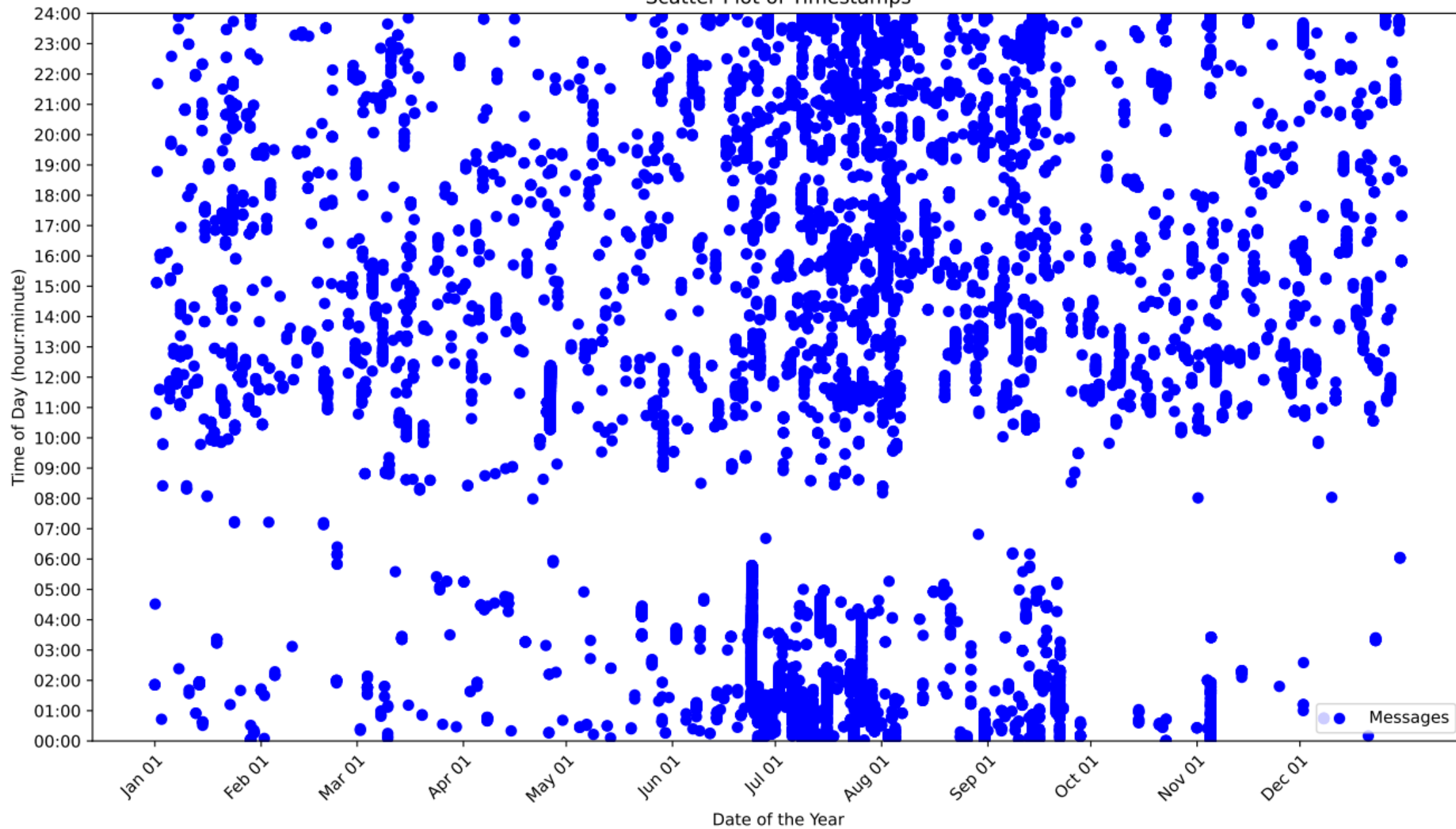
Exploratory Data Analysis

Exploring data and creating graphs

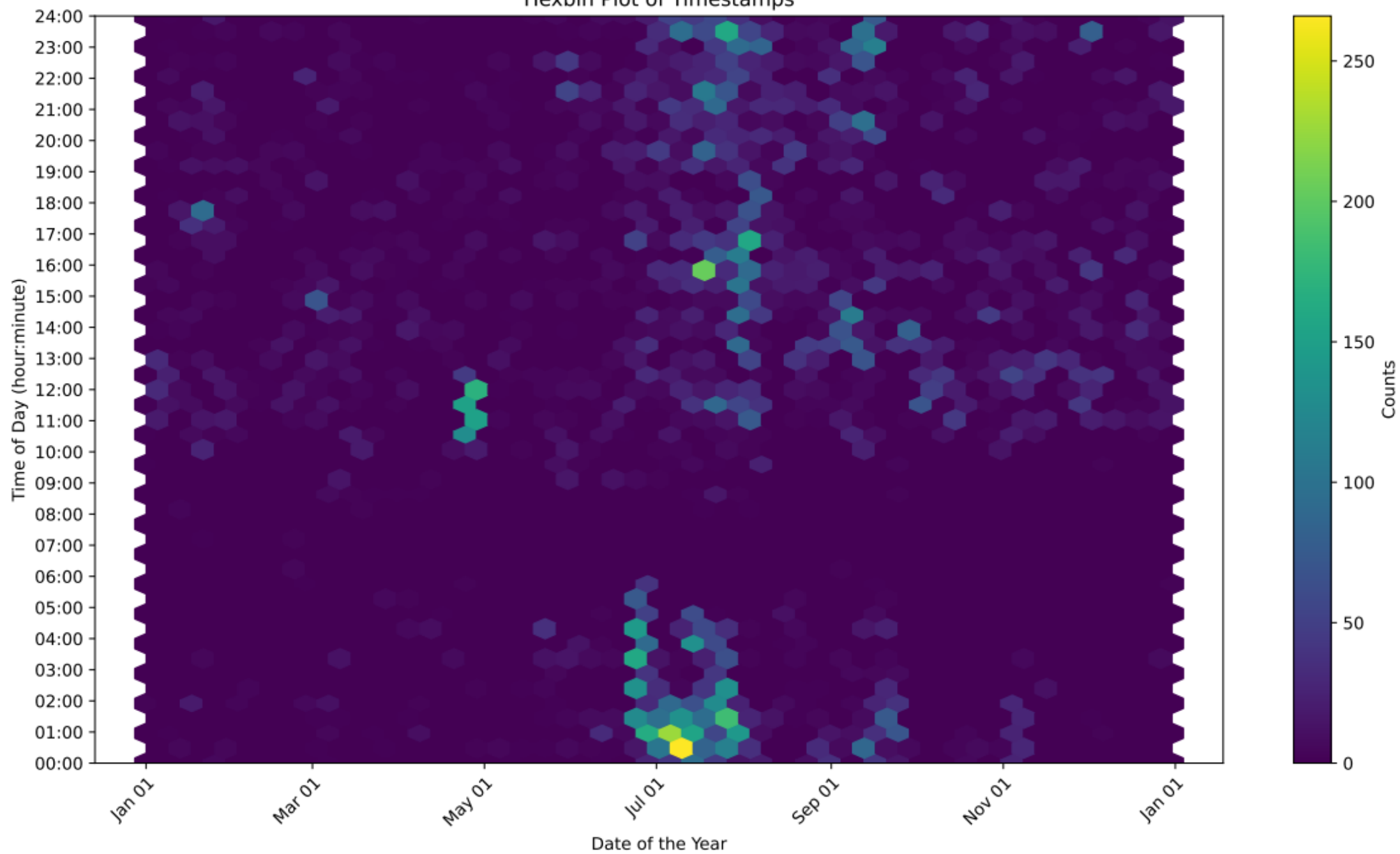
Seasonal Decompositon



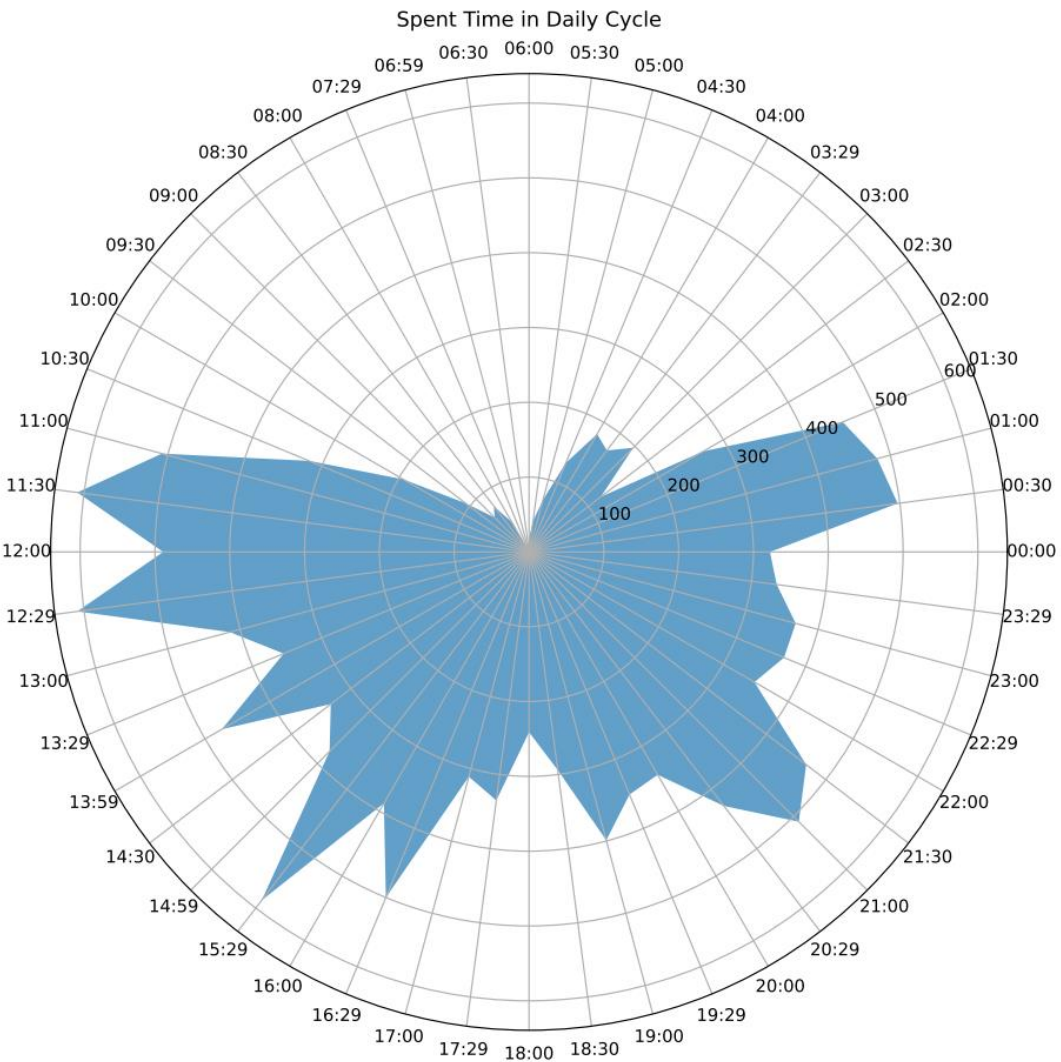
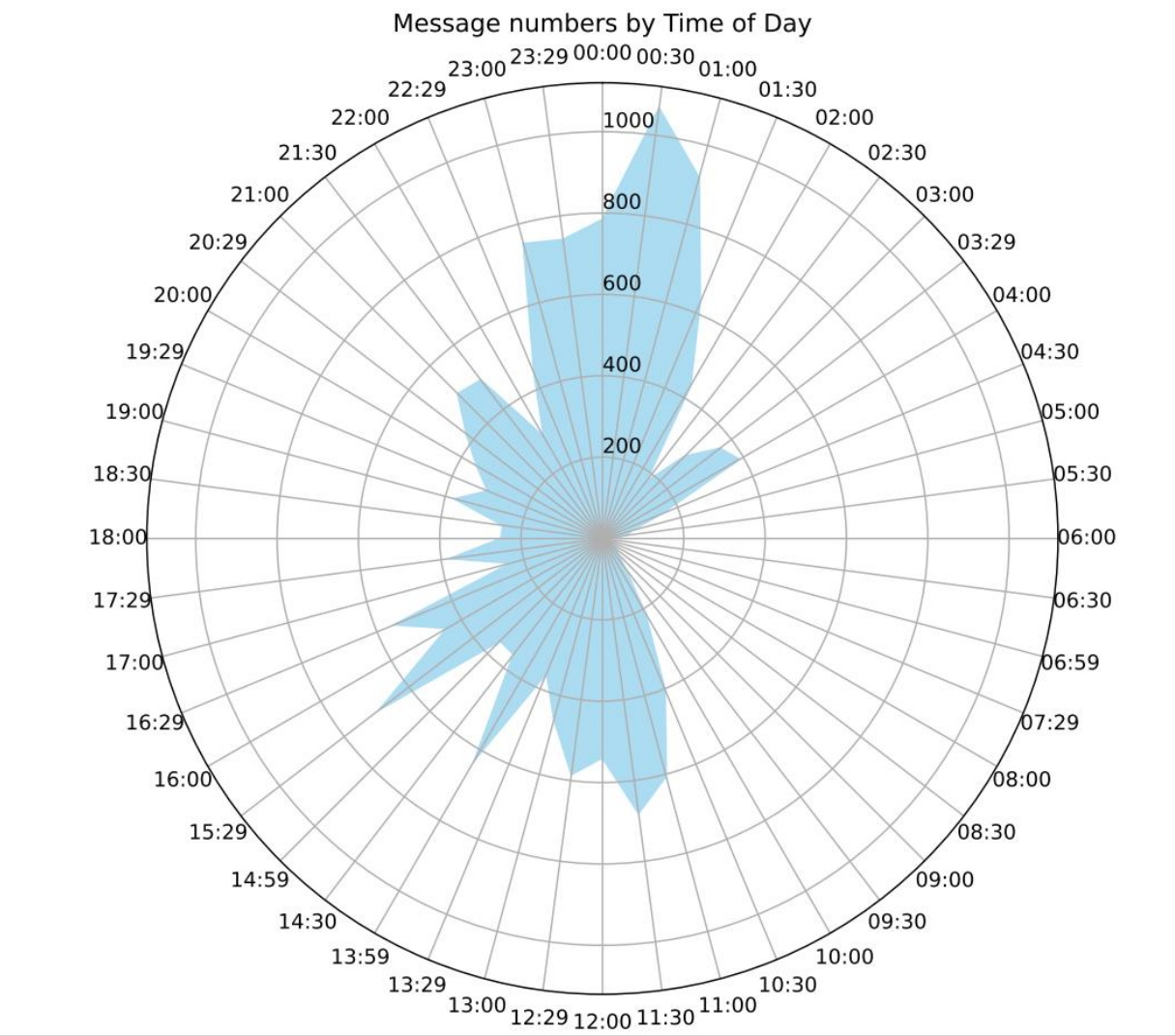
Scatter Plot of Timestamps



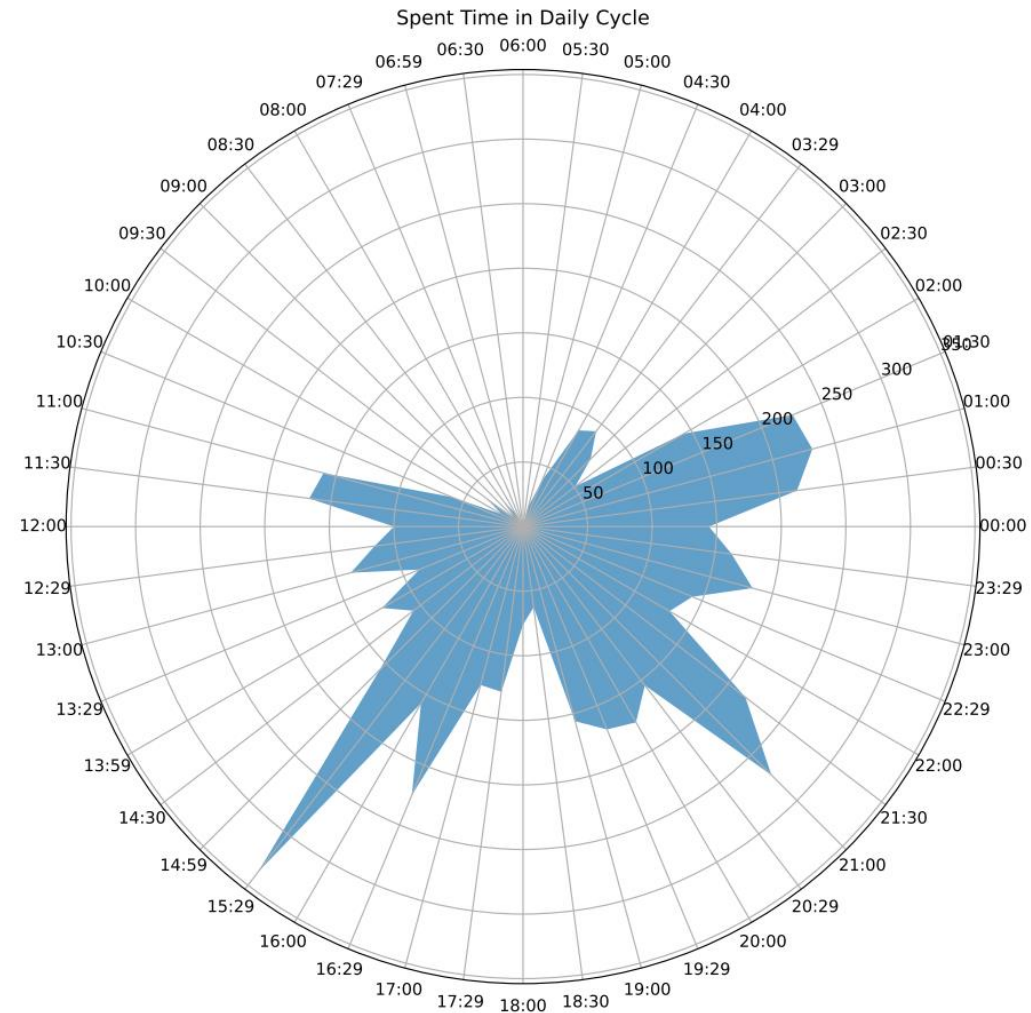
Hexbin Plot of Timestamps



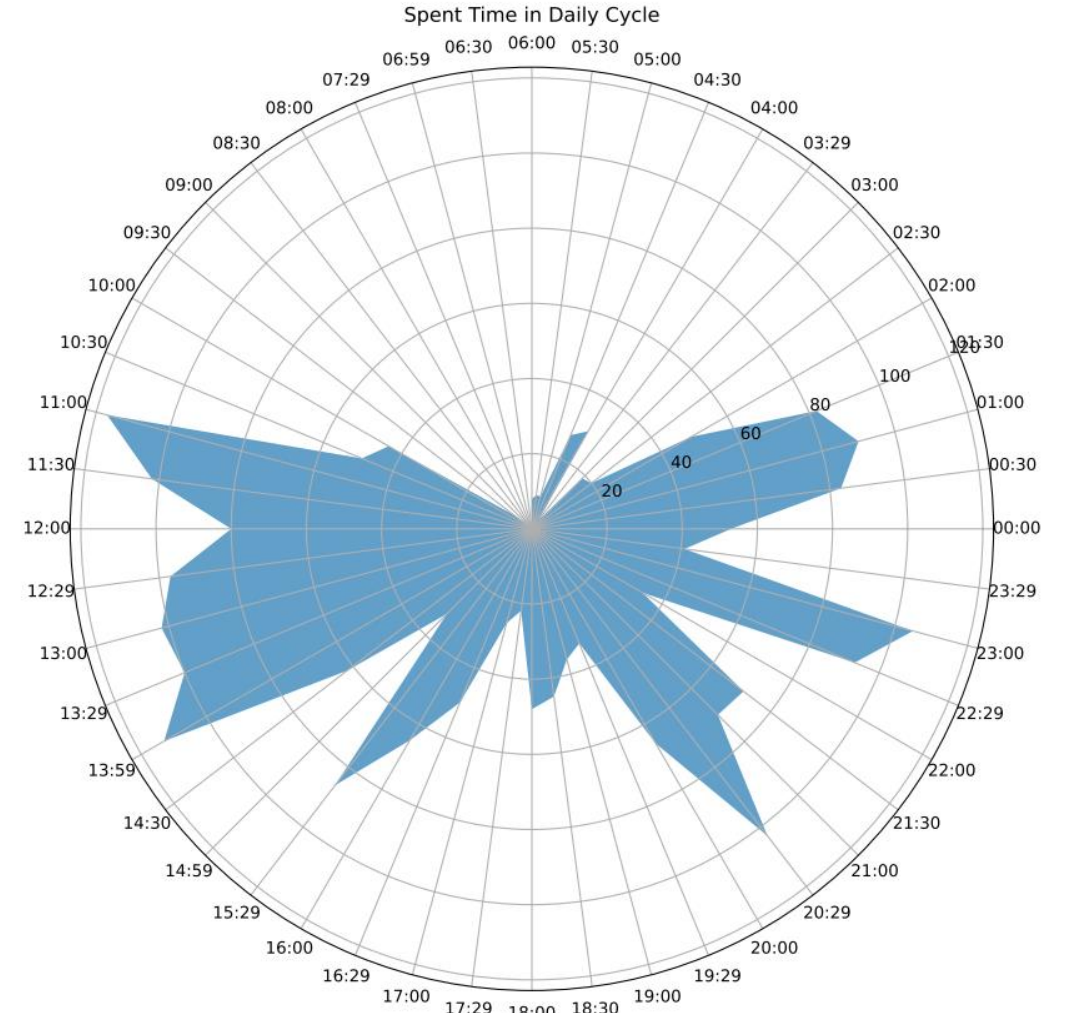
Message count and time spent distribution of year



Before – After app deletion



July-August



September-October

Further suggestions:

Message density between can be observed

Received messages can be scraped

Longer time analysis can show deeper insights and long term pattern
(seasonal, school related)