

Balancing Self-care & Privacy: A Semi-automated Analysis of Reddit Conversations on ChatGPT-Based Mental Health Support



Faraz Hashempoor, Basha High School

Motivation & Goals

As tools like ChatGPT enter health contexts, users show **high engagement** but **limited privacy awareness** [1].

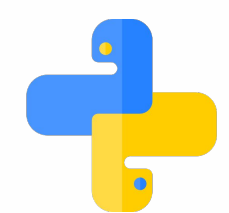
Despite the increased use of GenAI tools for mental health help, **little is known** about how **users perceive privacy** in these contexts.

Understanding user perceptions is **critical** for designing tools and policies that better **protect** the digital privacy and **safety** of users.

Methodology



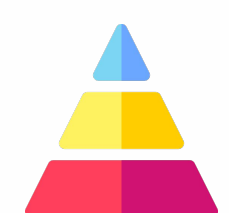
Manual Collection of relevant Reddit “posts and threads”



Automated Collection of “comments” from collected posts using Python



Thematic Labeling of an initial sample of comments using GPT-4o

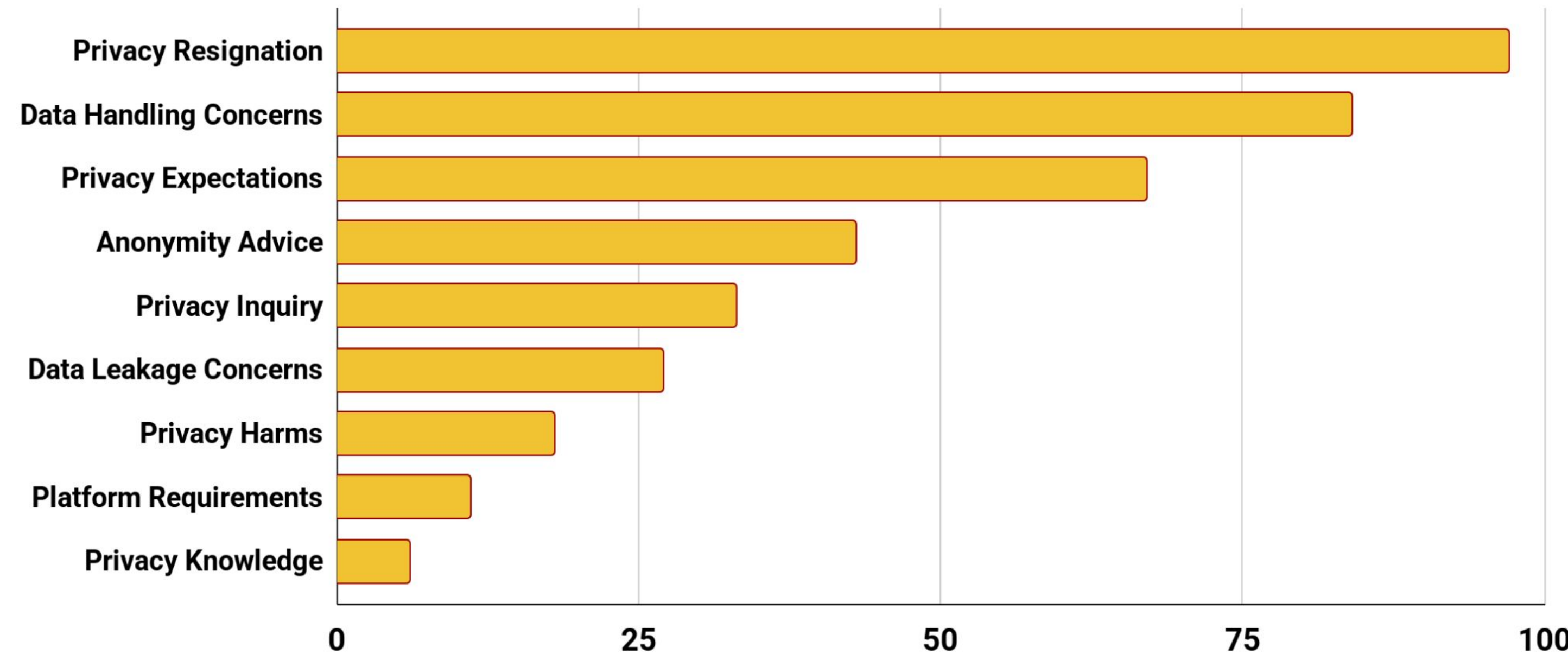


Creation of Theme Hierarchy through revisions and discussions



Fine tune GPT-4o prompt to **label entire dataset** using the theme hierarchy

Frequency of Topics Across Reddit Discussions



*The thing is: it's a trade-off. From a privacy standpoint, **it's a terrible idea**. But if it's **making a difference to your life**, then that's also worth considering.*

Skills Learned

- End-to-end **Research Process**
- Reddit Data Collection using **Python**
 - *Reddit API, PRAW, Pandas*
- Semi-automated **Content Analysis**
 - *Prompt Tuning, OpenAI API*

Next Steps

- **Expanding the Scope**
 - *More social media platforms*
 - *Other AI chatbots*
- **Conducting a Survey** with a specific *age demographics*
- **Write a Research Paper**

[1] Liu et al. "Prevalence Overshadows Concerns? Understanding Chinese Users' Privacy Awareness and Expectations Towards LLM-Based Healthcare Consultation." In IEEE S&P 2025

Findings

Users mostly pose concerns surrounding **data handling/transparency (n=84)** and **possible leakage (n=27)**

“What you input is used to train the AI—it's in their privacy statement”

*“[Your data] could get **leaked** and ruin your reputation or credibility.”*

However, **many users (n=97)** accept privacy concerns because of **perceived benefits**, **low fear of direct harm**, and **limited control over privacy** in general

*“It's **a lot easier and less scary** to go to a website and talk to a screen than actual people”*

*“I've never gotten good examples from people of how such info could be used to do **any real tangible harm to you**.”*

*“Honestly, **I don't even care anymore** about my privacy. It's out there everywhere being invaded.”*