



# Ski Bot



Telegram

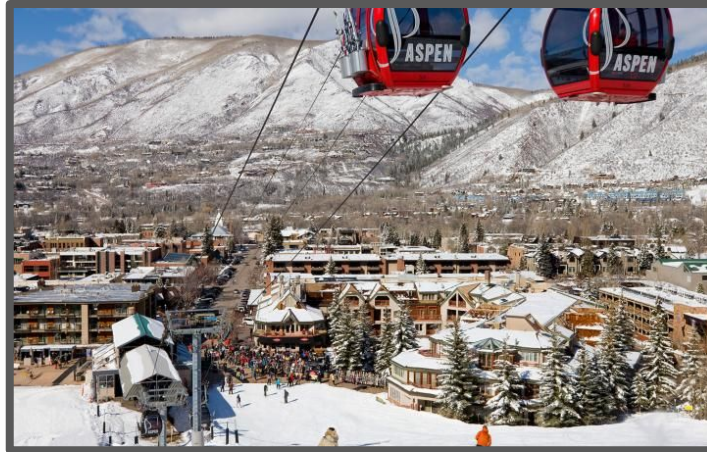
**@proj\_skibot**

Kaicheng Jia  
Dec 15th

# Goals

Create a **chatbot** who can...

- Recommend ski resorts
- Provide weather and operating information



*Already open?*

*Closed date?*

*Ticket prices?*

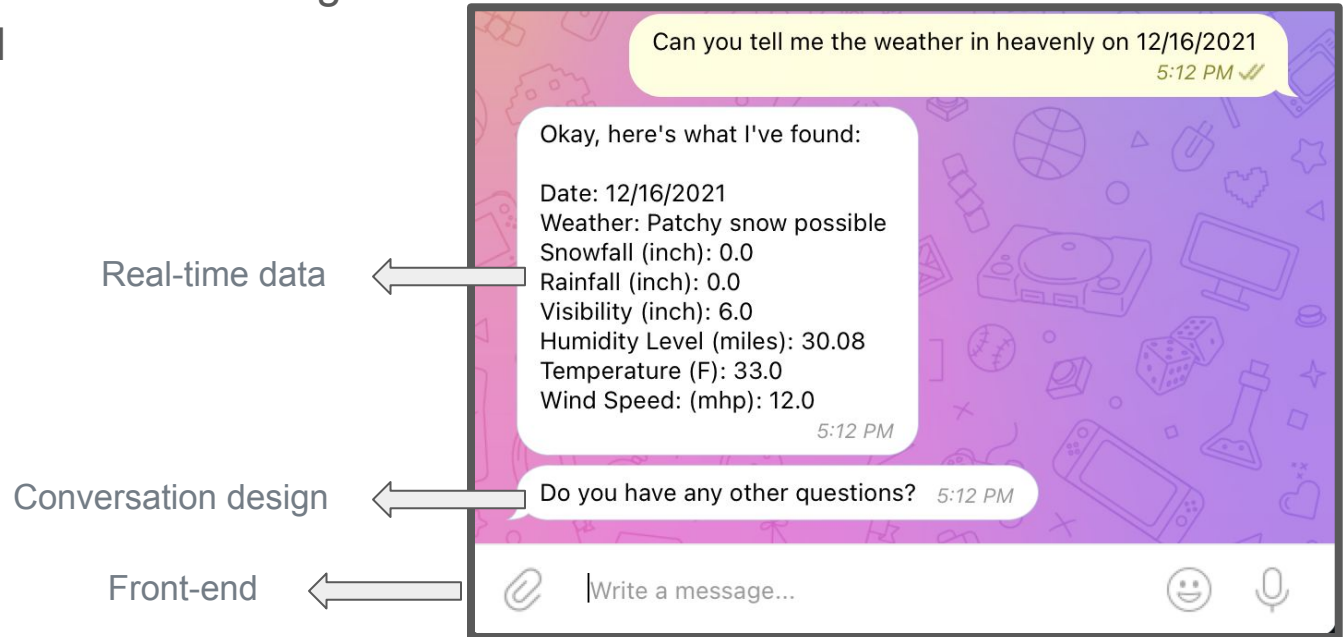
*Snowfall?*

*.....*



# Problem Decomposition

1. Real-time data collection and storage
2. Flow-based conversation design
3. Front-end GUI

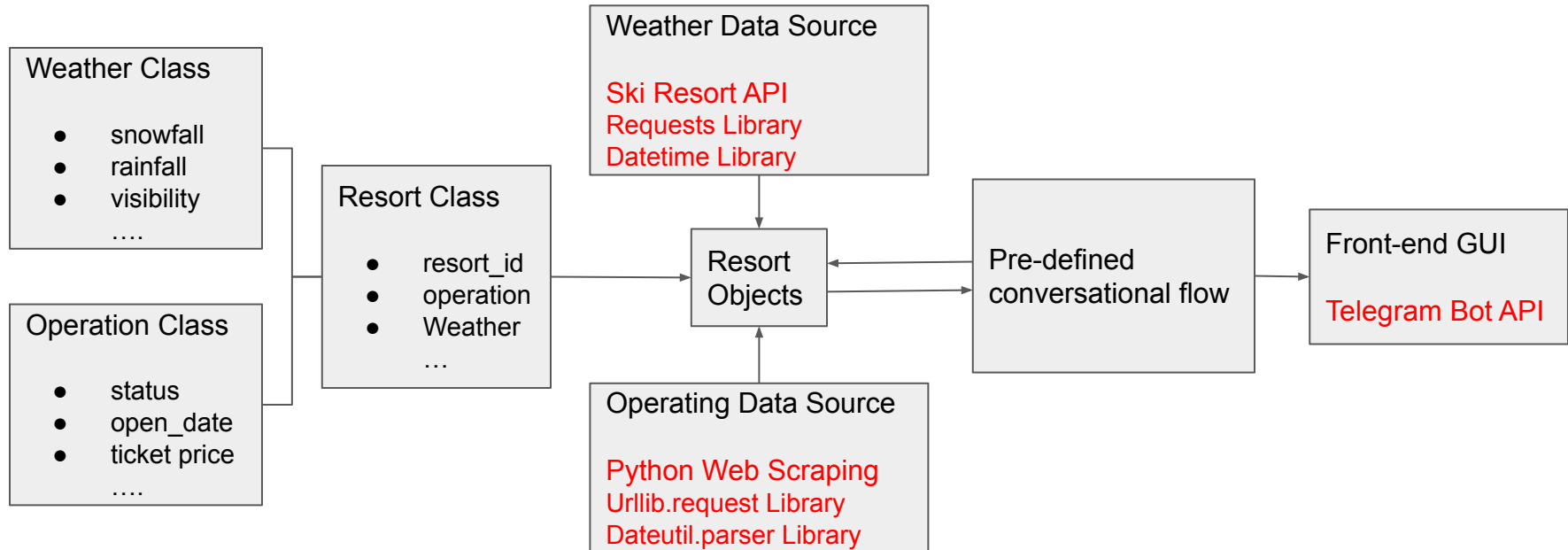


# Tools & Techniques

Data collection and storage

Conversation design

Front-end GUI



# Future Extension

- **Data Caching:** Query each time **vs** Query at bootstrap + **periodic update**
- **Data Storage:** **Database** **vs** In-memory
- **Conversation Design:** Pre-defined **vs** **NLP**
- **Testing:** Manual **vs** Unittest

# References

- Project github link: <https://github.com/Kaicheng1995/SkiBot>
- Ski Resort API: <https://developer.weatherunlocked.com/documentation/skiresort>
- Telegram Bot API: <https://core.telegram.org/bots/api>
- Url for web scraping: <https://www.skiresort.info/>
- Datetime Library: <https://docs.python.org/3/library/datetime.html>
- Tutorial for Python web scraping: <https://realpython.com/python-web-scraping-practical-introduction/>
- Tutorial for Python API: <https://www.dataquest.io/blog/python-api-tutorial/>