



Starry Nights

A Stargazing Suggestion App



- Outline

01

Overview

03

Process

02

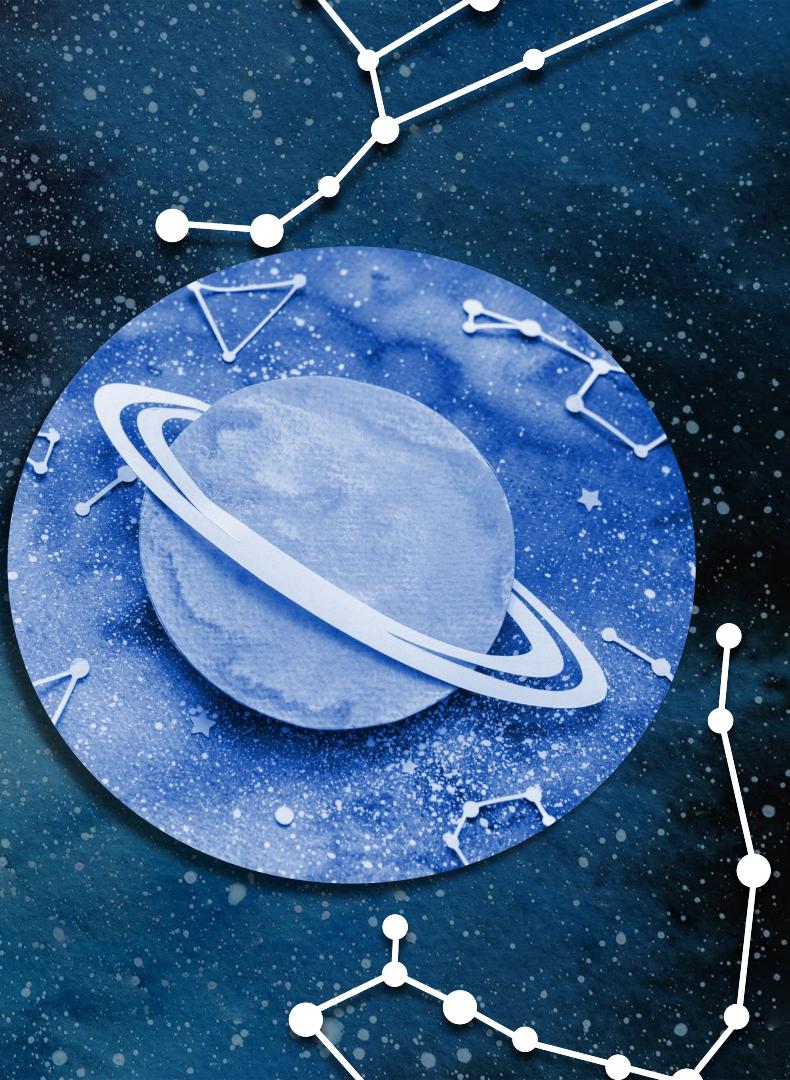
Data

04

The App!

Overview

- Stargazing Conditions
 - Location
 - Weather
 - The Moon
- Suggest Times & Locations





DATA

3 Main Sets of Data Used



Weather

Temp, RH, Cloud Coverage, Precip.



Moon Phases

New, Full, Quarter



Location

Spot Suggestions

* Height Shows Importance

Process/Pipeline

Ask for Location

Location Obtained for data gathering

Data Pulling

- Weather API
- Moon Phase Data for Dates
- Spot Suggestions (Web Scraping, Python, Mapping Tools)

Data Cleaning

- Pull in only pertinent data
- Clean Data

Run Suggestion Model

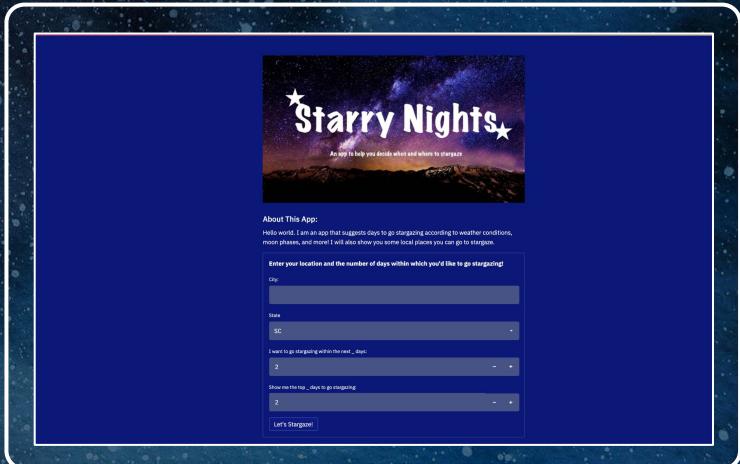
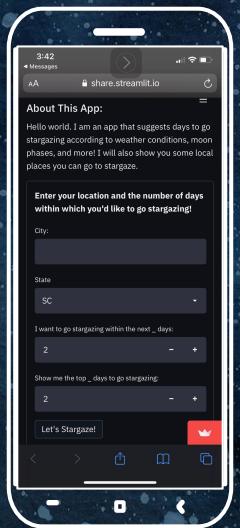
Model ranks days according to functions, each condition with a different weight

Display Results

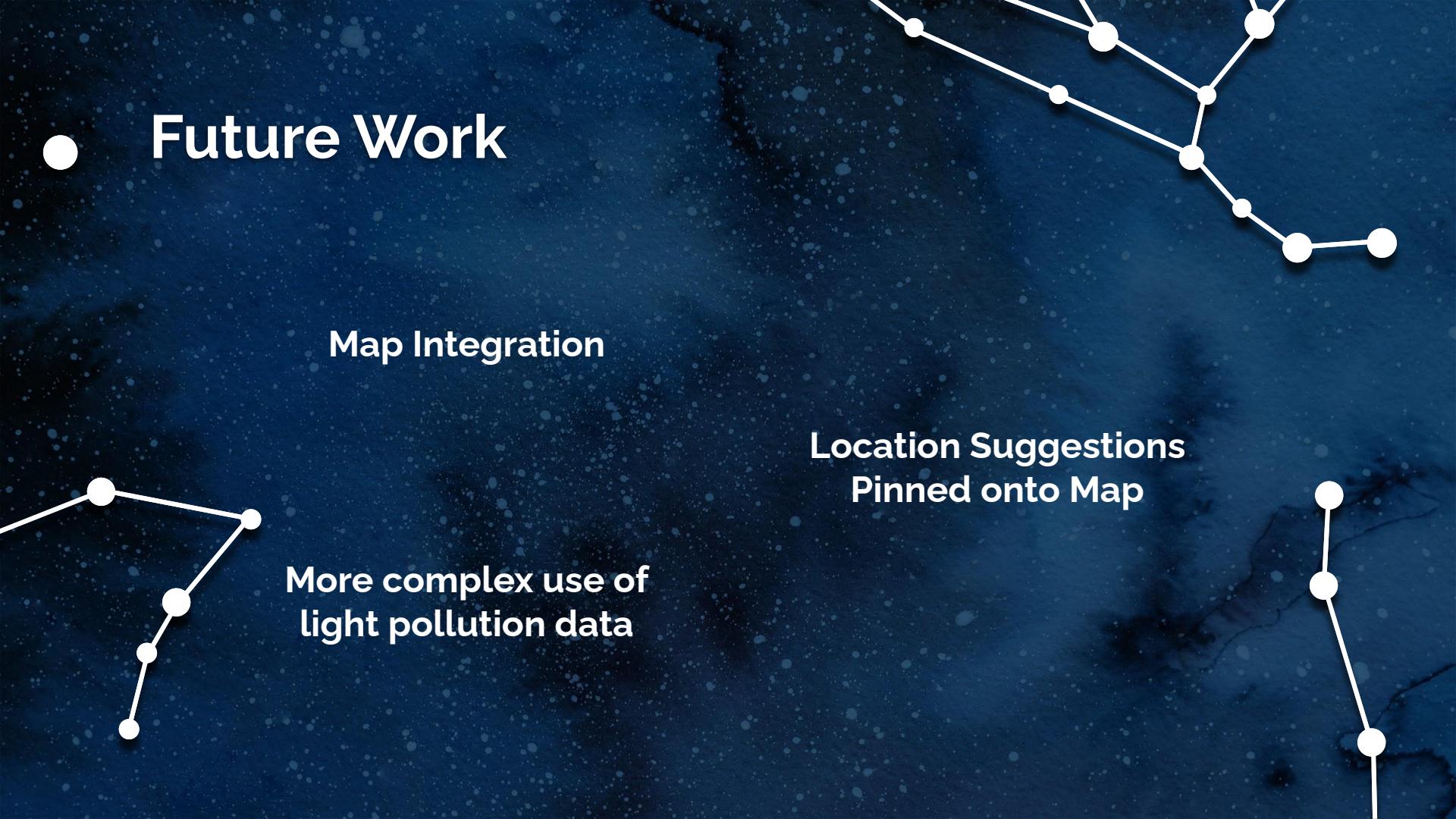
Display Results in WebApp!

The App!

Click
Here

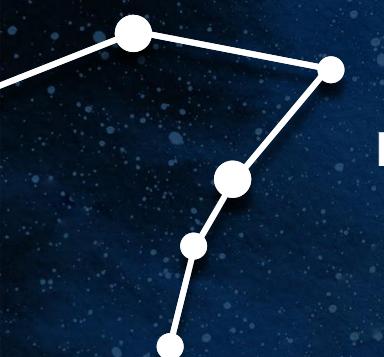


- Future Work



Map Integration

Location Suggestions
Pinned onto Map



More complex use of
light pollution data

Thanks

Do you have any questions?

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