NASA Space Apps Challenge

Will it rain on my parade

Data

Hyday

Giovanni

Data made for hydrology

Earth data – No APIs

MERRA 2

POWER easy

redoin

TEA

Rang

Cross check

Suggestion Based | Planned Trip

1) when
where

1) When — Event → Where acts

Where — Open → Acts

W - Theme

- Activities

Bottom

2) Weather Vibes

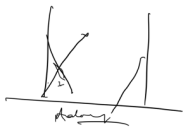
Weather Vibes

Reverse

VELOCITY →

DIRECTION

Fail Long



Activity

Whole

Theme, Time range, Location bounds

Suggestions in what to do

WEATHER VIBES

what people want to do

when & where is the best time to do it

intuitive, theme-based weather discovery engine

perfect star gazing night

Cozy rainy day for reading

Ideal kite flying weather.

Hard data → actionable recommendations

Target Personas

- The Photographer
- The Adventurer
- The Traveler

Feat 1 — "Where" – The Vibe Hotspot Finder
Given my vibe and a time, where should I go

Feat 2 — "When" – The Vibe Calendar
Given my vibe and a location, when should I go

Feat 3 — "Custom" – Specialized Area Advisory
Pre informed, high-value "vibes" that offer special recommendations >> score

"Vibe" Engine

VibeDictionary parameters → Scoring functions, weights

Scoring Algo → Batch → Normalize → Calculate weighted Sum.

Design & Architecture

FE – TS with Next

Map container

Control panel

Results panel

BE – Python with FastAPI

API

DB

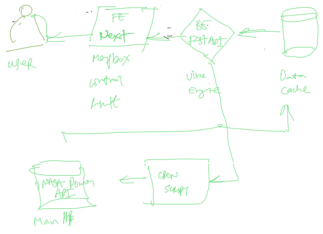
Data store

Pre-computation Script

workflow

Phase

1 When

2 Where

3 Purchase