

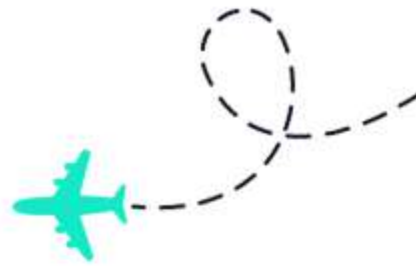
Will It Rain On My Parade?

"Turning NASA's decades of weather data into actionable insights."

Team
Graham

The Problem

Challenges in Planning Outdoor Events Due to Weather Forecast Limitations



Uncertain Forecasts

- Planning outdoor events like vacations, parades, and hikes often faces weather uncertainty.
- Short-term forecasts (7–10 days) work well, but predictions months in advance do not.

Vs

NASA Data Potential

Although long-term climate data exists, it is complex and difficult to access.

Uses NASA's historical and modeled datasets.

Provides likelihoods of heat, rainfall, wind, humidity, and more.

Helps users plan months in advance instead of guessing.

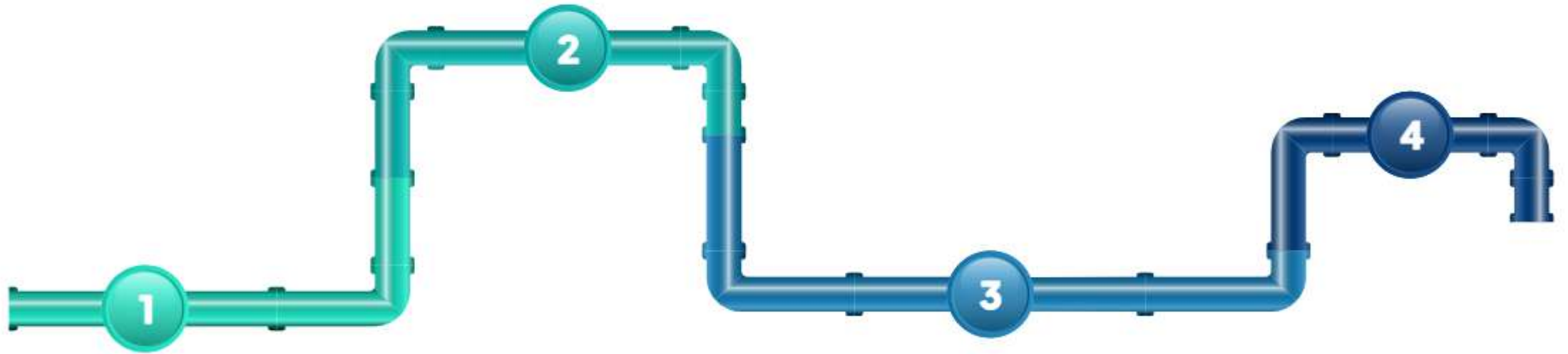
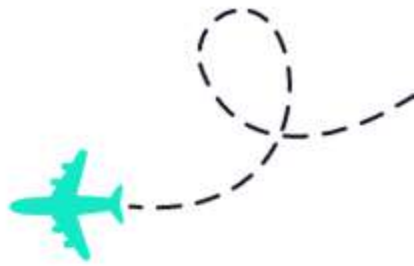
Our Solution

An app that turns NASA's climate data into clear weather probabilities.



How It Works

Step-by-step process from input to actionable insights



Input

Select date and location (via map or search).

Data

NASA APIs provide rainfall, windspeed, temperature, and cloud cover.

Processing

Probability and trend analysis performed.

Output

Dashboard with graphs, maps, and insights.

Frontend & Visualization	Backend & Data Sources	Hosting
Frontend: React.js, Mapbox for interactive maps	Backend: Python (FastAPI), Flask (optional)	Hosting: AWS / GitHub Pages
Visualization: D3.js, Chart.js	Data Source: NASA Earth Observing System, GPM, MERRA-2 datasets	

Impact & Benefits

Empowering smarter planning through NASA-backed insights



1 🎨 Event organizers: choose ideal dates and plan backups



2 🏡 Travelers & outdoor lovers: prepare better for weather variability



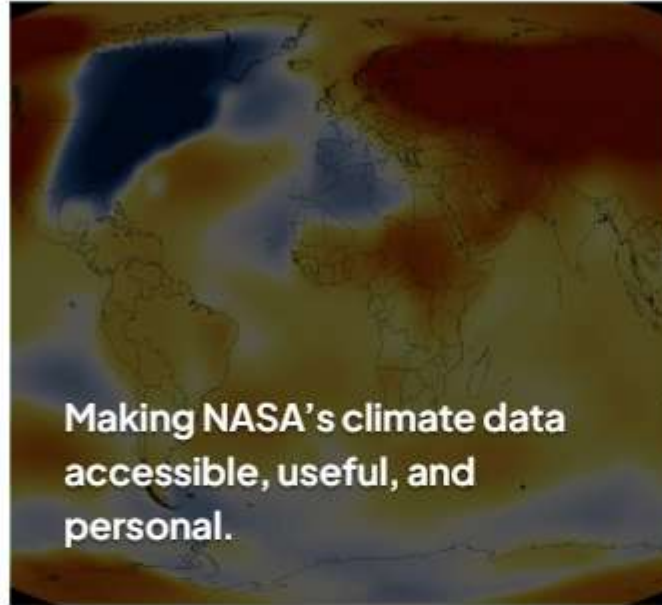
3 🎓 Students & educators: learn from real NASA climate data



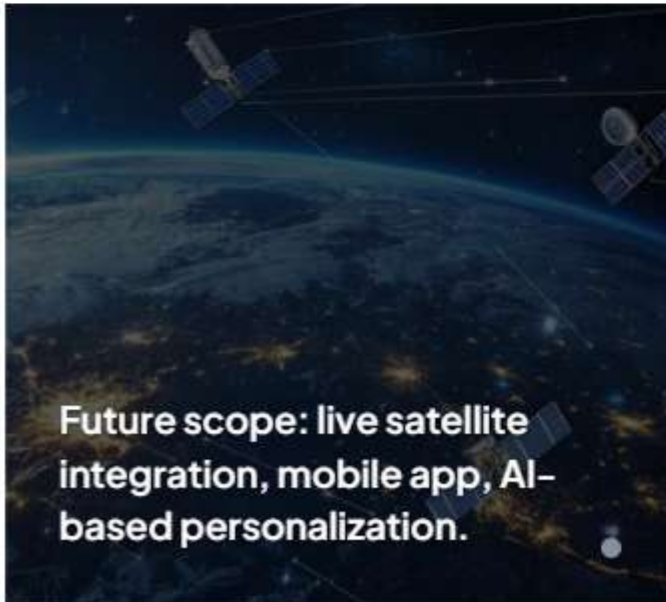
4 🌍 Global impact: democratizing climate awareness and preparedness



**We don't predict weather —
we empower people to make
data-driven decisions.**



**Making NASA's climate data
accessible, useful, and
personal.**



**Future scope: live satellite
integration, mobile app, AI-
based personalization.**



Thank you!!!

Conclusion / Vision

We don't predict weather — we empower people to make
data-driven decisions.

