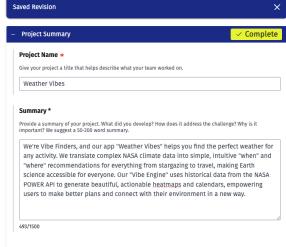


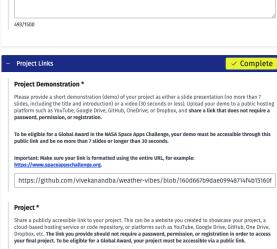
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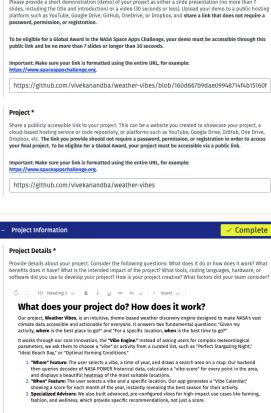
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What benefits does it have? What is the intended impact of

The primary benefit of **Weather Vibes** is that it democratizes Earth science data. We transform immense and complex climate datasets into simple, intuitive, and human-centric recommendations. This empowers users who are not climate scientists to make informed decisions.

the project?



Tips for Submitting Your Project

 Review the Project Submission Guide for detailed instructions and best practices for submitting your project.

2) Save your project often! Use the "Save Progress" button to save your changes as you edit your Project. Your changes will now be viewable to anyone who visits your page. Saving your project does not submit it for judging, you must clut's Submit for judging" to be considered for awards.

3) If you have multiple team members who might be 3) if you nave mutuple team memores who might be trying to edit you project at the same time, you can toggle the edit "Lock" to 'ON. This will let to ther team members here you can enabling the project to the project tab over you can enabling the same time. The same time, the work of the team member may still remove the lock and make changes to the project, overwriting any changes you had not yet saved.

4) Once you are ready, click the "Submit for Judging" button. You should see a notification bar at the top letting you know that your project has been submitted and that your certificate is available.

5) You can see the latest times your project was saved or submitted in the "Edit Details" box on the Project tab. Only your final click on "Submit for Judging" will be reviewed by Judges.

6) Project submission closes on Sunday, October S at 11:59 PM local time, in accordance with the time zone of your Local Event. If your team is registered for the Universal Event, your project must be submitted in accordance with the local time of your Team Owner's area of residence. You must click the "Submit for Judging" button prior to 11:59pm local time of your Local Event. Any projects saved or submitted past this deadline will not be eligible for judging. No edit requests or exceptions past this deadline are allowed. Submission is final.

- For Individuals: Empower travelers, photographers, and hobbyists to plan their activities with confidence, reducing weather-related disappointments and maximizing their experiences. Our "Climate Mood" and "Rashiom" advisors can even enhance adialy well-being For Brusinesses: Enable event planners, farmers, and tourism operators to optimize their scheduling, increase yields, reduce costs, and mitigate risks associated with adverse weather. Our "Farming Advisor" directly contributes to more efficient and sustainable agriculture. For Society, Panking climate date assay to understand, we foster a greater appreciation for the Earth's climate patterns and the impact of environmental changes, encouraging more informed conversations about our riand.
- climate patterns about our planet.

What tools, coding languages, hardware, or software did you use?

Our project was built using a modern, scalable, and entirely open-source technical stack, significantly accelerated by a suite of Al-powered development tools.

- Primary Data Source: NASA POWER API (monthly regional climatology data).
 Frontend: Next, is (React)

- Frontend: Next,is (Read: 18
 Backend: Python with fastAPI
 Mapping: Mapping:

How is your project creative?

The creativity of **Weather Vibes** lies in its **human-centric abstraction**. Instead of presenting raw data (e.g., "CLOUD_AMT < 20%"), we present a feeling or a purpose (e.g., "Perfect Stargazing"). This translation layer is our core innovation.

- * The "Wibe" Concept. We moved beyond typical weather forecasting to create a "weather discovery" tool. The idea of "finding a vibe" is a novel and engaging way to interact with scientific data.
 * The Recommendation Engine Our advanced "Advisors" don't just show data; they provide specific, actionable advice (e.g., "It's a great day for a linen shirt," or "Consider planting now to avoid the historical frost window"). This transforms the app from an analytical tool into a personal consultant.
 * Visual Storytelling: We focused on making the data beautiful. The instant heatmap and calendar visualizations tell a compelling story at a glance, making complex climate patterns immediately understandable.

What factors did your team consider?

Our team, Vibe Finders, based in Bangalore, considered several key factors:

- 1. User Experience First: Our primary goal was to create something that our friends and family—who are not data scientists—would genuinely want to use. This drove our decision to focus on the "vibe" concept.
 2. Performance and Scabbility: We were with at making live JAP calls to NASA for every user interaction would be too slow. This led us to design a robust architecture where all data is pre-computed and cached locally, ensuring a fast and seamless user experience.
- ensuring a fast and seamless user experience.

 3. Team Strengths: We explicitly divided our roles based on our individual strengths (Frontend Lead, Backend Lead, Data Lead) while also assigning full-stack ownership for each core feature. This allowed for parallel work and efficient integration.

 4. Real-World Impact: We chose our "Advisor" features based on their potential for real-world impact, particularly the "Crop & Farming Advisor," which could be a valuable tool for local farmers in our region and beyond.

Use of Artificial Intelligence (AI) *

The use of Artificial Intelligence (AI) tools is permitted for the NASA Space Apps Challenge and can be used as a tool to accelerate innovation and creativity. However, generated content may not use, contain, or modify any NASA branding or design elements (such as the NASA logos, flags, or mission identifiers). We also require that you clearly indicate where and how M tools were utilized in your project, including:

- Images and videos: Must be amended to include a visible watermark indicating they are AI-generated
- Code and data: Must acknowledge AI generation in descriptive text and metadata.

We look forward to seeing your original thoughts and your skills exemplified in your projects. Our judges will consider originality, intent, and execution in the context of Al-assisted work.

List below how you used AI for your project. If you did not use Artificial Intelligence tools/software, please write "N/A" in the box below

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AI Tool Integration

Our team, Vibe Finders, adopted an Al-augmented workflow to accelerate development and enhance creativity:

- Miro (Al-Powered Whiteboard): We used Miro's Al capabilities for our initial brainstorming sessions, generating mind maps and user flow diagrams that formed the foundation of our project plan.
 Cursor (AL Code Editor): Our primary code editor. We used Cursor's deep integration with LIMs to generate boilerplate code for our React components and FastAPI endpoints, debug complex issues, and rapidly refactor our Python data processing scripts. refactor our Python data processing scripts.

 Generative Al Models (Gemini Pro, Claude, Codex): We used a combination of these models throughout the
- Observation:

 Solution:

 Solution:

 Code Generation & Debugging: For generating complex code snippets, such as the geospatial cipiping logic in Python and the Mapbox heatmap styling in lawaScript.

 Documentation & Wite-eugs For helping us draft and refine our project descriptions, documentation, and this final submission text, ensuring clarity and impact.

NASA Data *

In order to be eligible for a Global Award, you must use NASA data or resources

For "Link Text," please input the name of the resource. Please list all NASA data or resources used in your project.

Important: Make sure your link is formatted using the entire URL, for example: https://www.spaceappschallenge.org.

Link Text Link Url NASA POWER API - Climatology Data https://power.larc.nasa.gov/ (+ Add New Link)

Space Agency Partner & Other Data

In addition to NASA data, please list all other data, resources, or tools used in your project from Space Agency

Resources should include any code, text, and images (even if they are open source or freely available) that you used when creating your project. If you are using any copyrighted materials, make sure you have permission to use them. All links must be publicly accessible.

For "Link Text", please input the name of the data or res

Important: Make sure your link is formatted using the entire URL, for example: https://www.spaceappschallenge.org.

Link Text + Add New Link Link Url

Agree to Terms and Conditions *

I have read and understand the project submission requirements as contained in the NASA Space Apps

Project Submission Guide, and I agree to the Participant Terms and Conditions and Privacy Policy.

Copyright ©2025 NASA | Privacy Policy | Legal | Contact | Resources

Confirm All Work is Original *
I confirm that the submitted project represents my team's original work and that all external resources,

including code, text, and images used in the project, are listed in the NASA Data and the Space Agency Partner

8. Other Data fields of the project submission form. In creating your project, you confirm that you tream did

not use any copyrighted materials (i.e., music, images, text, etc.) that you don't have permission to use.

NASA Space Apps is funded by NASA's Earth Science Division through a contract with Booz Allen Hamilton [2], Mindgrub [2], and SecondMuse [2].

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