# NASA

Heading: Will It Rain On My Parade?
Subtitle: Predicting Outdoor Weather Using
NASA Satellite Data
Bottom Text:

Developed by Team CodeExploitrz
NASA Space Apps Challenge 2025
Image Prompt: A glowing Earth from space with
a satellite orbiting, storm clouds forming on one
side, dark blue galaxy background.

- Title: Understanding the Challenge
- Text:
- Outdoor activities are often disrupted by unexpected rain.
- Our goal is to help users predict and plan events using NASA Earth observation data.
- Image Prompt: A satellite observing a storm system over a city, lightning visible in the distance, viewed from orbit.

- Title: Data We Use
- Text (bullet points):
- NASA Earth Observation Datasets (GPM, MODIS, AIRS)
- OpenWeatherMap APIs for real-time forecasting
- Processed satellite imagery and rainfall data
- Image Prompt: Diagram-style visual of Earth with data lines connecting satellites to servers and a web dashboard.

Title: Our Smart Forecasting Tool

Text:

Our web app analyzes rainfall probability, temperature, and cloud density to predict weather for saved events.

Key Features:

Real-time event tracking

**™** Email alerts

○ Rain & temperature forecasts Image Prompt: Futuristic weather dashboard interface projected in space with graphs and rain icons. Title: Architecture & Technology

Text:

Flask (Python) Backend

HTML, CSS, JavaScript Frontend

Leaflet.js + Chart.js for Visualization

RESTful APIs for NASA Data Access
Image Prompt: Stylized architecture diagram — backend server connected to frontend UI with Earth imagery in the background.

### Results & Impact

Title: Results & Impact

Text:

Our project empowers communities to plan confidently using space-based weather insights.

It promotes open NASA data and sustainable event planning worldwide. Image Prompt: People enjoying an outdoor event under clear skies while satellites monitor from orbit.

## Team CodeExploitrz

Title: Meet the Team

Text:

Muhammad Suleman

**Muhammad Daniyal Faheem** 

Muhammad Sudais Usmani

**Muhammad Shoaib** 

Muhammad Hussain Ali

Momal Naz

Footer:

@ GitHub: https://github.com/Dit-Developers/2025-NASA-Space-Apps-Challenge Image Prompt: Team silhouettes standing in front of a glowing Earth with data trails, symbolizing global collaboration.