



**SARVAJANIK
UNIVERSITY**

INCLUSIVE | INTEGRATED | INNOVATIVE



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)

SSIP



SARVAJANIK UNIVERSITY
SARVAJANIK COLLEGE OF ENGINEERING & TECHNOLOGY

R E P O R T of EVENT

“ NASA INTERNATIONAL SPACE APPS CHALLENGE 2024 SURAT”

On

5th and 6th October, 2024

(Events Started from 18 July 2024 until 6th October 2024)

Event Highlights

The Team

Faculty Coordinator	:	Dr. Dipali Kasat, Prof. Dhatri Pandya
IIC Cell – SCET	:	Dr. Utpal Pandya, President, IIC-SCET Dr. Dhruti Sharma, Convener, IIC- SCET
Student Coordinators	:	Himanshi Borad, Riddhika Cheruku

Details of Event

Event Type	:	International Level Program
Event Platform	:	Sarvajanik College of Engineering & Technology (SCET)
Category	:	IIC - Innovation activity for Quarter – 1 (2024-25)
Schedule	:	5,6 October, 2024 , Online
Aspirants	:	UG and PG students and faculty of Sarvajanik College of Engineering & Technology, SCET and other colleges
Accessibility	:	Open to all (Students/Faculty members)
Participated Entry	:	470 + participants, 70+ Teams



NASA™
INTERNATIONAL
SPACE APPS
CHALLENGE

NASA SPACE APPS CHALLENGE 2024 SURAT



Executive Summary

The NASA Space Apps Challenge Surat 2024, hosted by the Computer Engineering Department of Sarvajanik College of Engineering and Technology (SCET) under Sarvajanik University, successfully brought together diverse participants to tackle Earth and space challenges inspired by NASA.

NASA Space Apps Challenge held on October 5-6, 2024, this event was organized in collaboration with IEEE Gujarat Section, ISTE, CSI, eChai, TiE Surat, SSIP Cell, MLSA, Yashvi Foundation Charitable Trust, RAHI ENGenius Solutions LLP, InsideFPV, The Surat People's Co-Operative Bank Limited, Tata Consultancy Services, 11ZA, and Sahajanand Technologies Private Limited, exemplifying the power of partnership.

As part of NASA's global hackathon, participants—ranging from software developers, engineers, technologists, scientists, developers and designers—used open NASA data to develop solutions for challenges in environmental sustainability, space science, and beyond, guided by mentors, judges, and notable guests. With this year's theme, "The Sun Touches Everything," participants explored the Sun's influence on Earth and space.

The event, which included both local and remote elements to engage participants and mentors globally, concluded with 17 local winners and five standout teams nominated for global recognition. This collaborative hackathon fostered innovation, teamwork, and creativity, empowering participants to contribute impactful solutions in line with NASA's mission.

What is the NASA Space Apps Challenge?

The NASA Space Apps Challenge is the world's largest hackathon, launched in 2012, inviting participants from all ages and backgrounds to solve challenges in space and Earth sciences. Open to everyone and entirely free, it fosters a culture of innovation through technology, creativity, and global collaboration, promoting DEIA (Diversity, Equity, Inclusion, and Accessibility) across diverse communities. With a STEAM focus—Science, Technology, Engineering, Arts, and Mathematics—the challenge encourages teamwork to create impactful solutions, leveraging NASA's open data and resources from partner space agencies to tackle real-world issues.

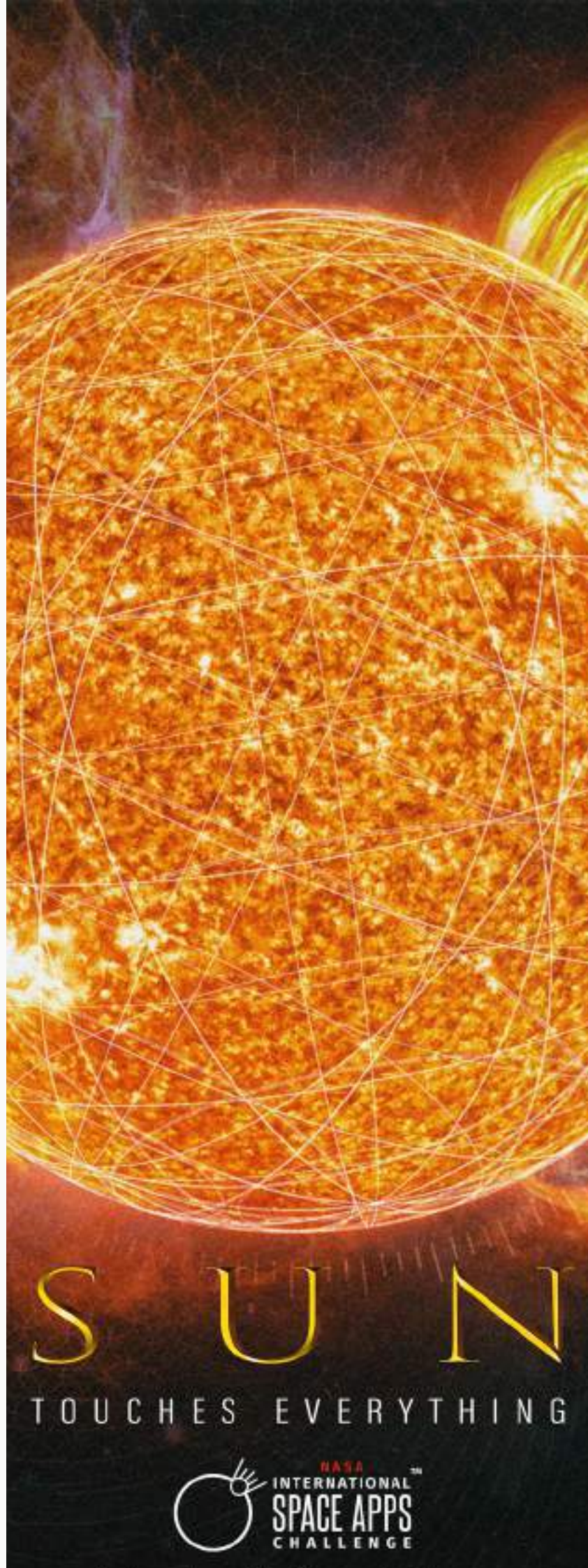
Goal and Purpose

To inspire global collaboration in solving real-world challenges using NASA's open data, fostering innovation and accessibility in space and Earth sciences.

Theme

"The Sun Touches Everything" – Exploring the Sun's influence on Earth and space science.

www.spaceappschallenge.org





NASA Space Apps Challenge Surat 2024



INNOVATE TOGETHER, EXPLORE BEYOND



The NASA Space Apps Challenge Surat 2024, hosted by the Computer Engineering Department of Sarvajani College of Engineering and Technology (SCET) under Sarvajani University, brought together a diverse group of participants to solve challenges inspired by NASA's missions. Held on October 5-6, 2024, this event celebrated innovation and collaboration on a global scale.

The NASA Space Apps Challenge Surat 2024 brought together a global community of innovators, connecting participants from schools, universities, and various fields. This collaborative effort fostered a dynamic exchange of ideas, with local and international mentors guiding passionate individuals to develop solutions to pressing space and Earth challenges.

The event also championed women's empowerment and upheld Space Apps' DEIA (Diversity, Equity, Inclusion, and Accessibility) values, creating an inclusive environment where all voices were valued. These principles, alongside the spirit of teamwork and innovation, made the NASA Space Apps Challenge a powerful example of unity and shared purpose in science and technology.



NASA INTERNATIONAL SPACE APPS CHALLENGE 2024 SURAT

470+ Participants

70+ Teams

17+ Total Winner
Teams

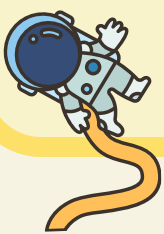
5+ Global Nominees
Team

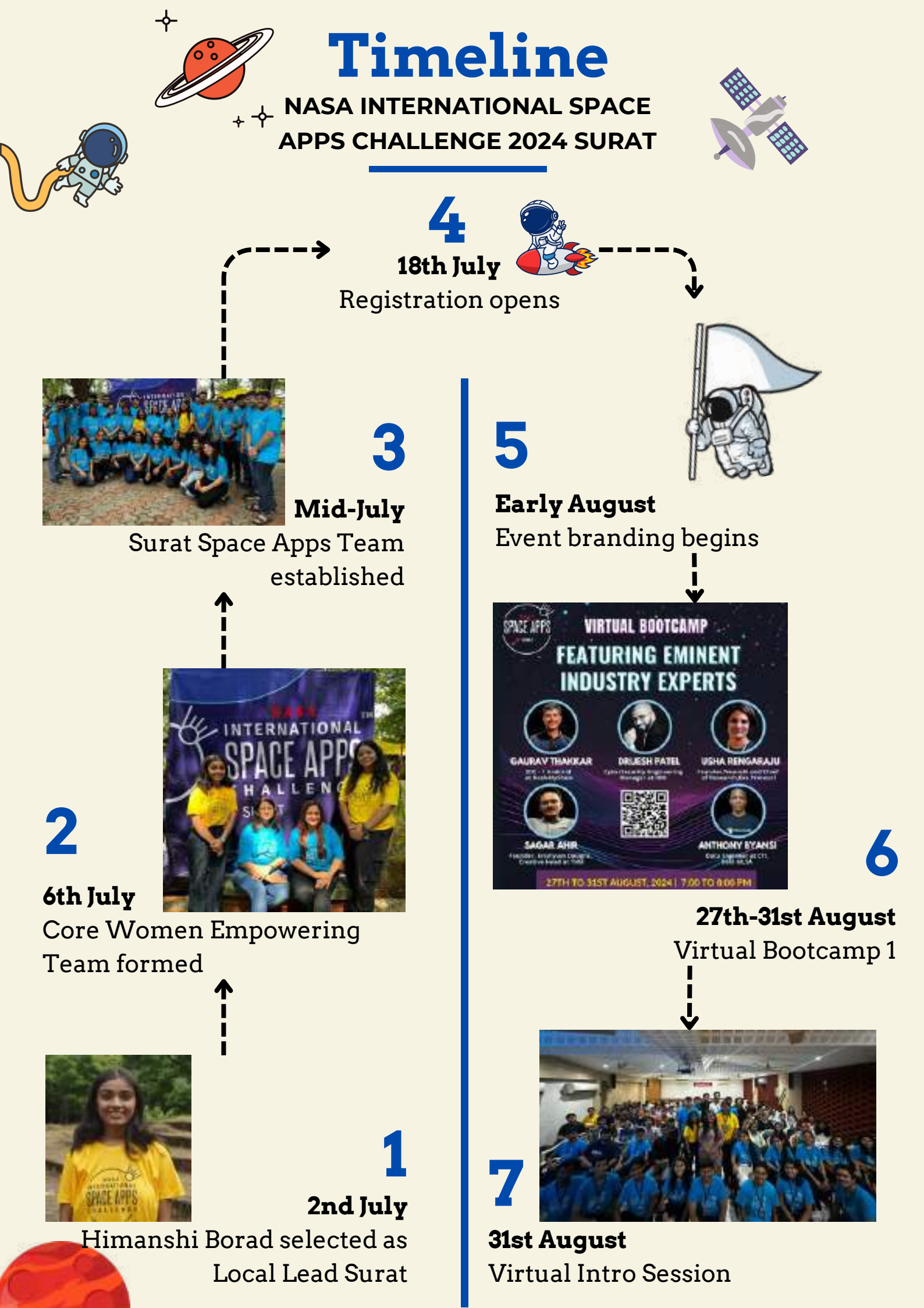


Innovate Together, Explore Beyond

5th-6th

**OCTOBER
2024**





14

5th December

Celebration and Certification
Distribution Ceremony



13

6th October

Mentoring Session for
participants



12

5th October

Inauguration of the NASA Space
Apps Surat 2024 Hackathon

11

30th September

Offline Info Session held



8

August-September

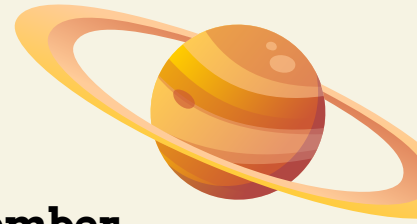
Collaborators onboarded for the
event



9

23rd-24th September

Virtual Bootcamp 2 organized



10

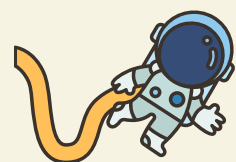
27th-28th September

School Info Sessions conducted



Timeline

NASA INTERNATIONAL SPACE
APPS CHALLENGE 2024 SURAT



NASA Space Apps Challenge 2024

Surat Team

Patrons



Bharat Shah
SES Chairman
Sarvajanik University



Dr. Kiran Pandya
Provost
Sarvajanik University

Principal



Dr. Hiren Patel
Principal
SCET, Surat

Faculty & Student Lead

Dr. Dipali Kasat
Professor, HOD
Computer Engg Dept
SCET

Chairperson
NASA Space Apps
Challenge 2024 Surat



Prof. Dhatri Pandya
Assistant Professor
Computer Engg Dept
SCET

Faculty Lead
NASA Space Apps
Challenge 2024 Surat

Himanshi Borad

Local Lead
NASA Space Apps
Challenge 2024 Surat



Riddhika Cheruku

Co-Lead
NASA Space Apps
Challenge 2024 Surat

OUR NASA SPACE APPS SURAT
TEAM: INNOVATIVE, DEDICATED, AND
UNITED IN INSPIRING CHANGE.

Organizing Team



Local Winners

[LINK](#)

Agri_Visionaries

Leveraging Earth Observation
Data For Informed Agricultural
Decision-Making



Elena_Team

Tell Us A Climate Story!

[LINK](#)



[LINK](#)

Astral Adventures

Galactic Games: Fun In
Microgravity Environment



MOST INSPIRATIONAL AWARD

Local Winners

[LINK](#)

Galaxy Crew

Tell Us A Climate Story!



[LINK](#)

Hunter Lioness

Beyond Sunlight: An Aquatic
Chemosynthetic World



[LINK](#)

The Nova

Show Us What May 2024
Geomagnetic Storm Looked
Like



BEST STORYTELLING AWARD

Local Winners

[LINK](#)

AstroCoder

Tell Us A Climate Story!



Tech Pandavas

Tell Us A Climate Story!

[LINK](#)

GALACTIC IMPACT AWARD

Local Winners

[LINK](#)

Team Mars

Create an Orrery Web
App



AkashGanga

Show Us What May 2024
Geomagnetic Storm
Looked Like

[LINK](#)



BEST USE OF SCIENCE AWARD

Local Winners

[LINK](#)

**404 Innovators
Found**

Global Protocol Games



Team Rocket

Galactic Games

[LINK](#)

BEST MISSION CONCEPT AWARD

Dr. Kiran Pandya
Provost



COLLABORATOR CERTIFICATE DISTRIBUTION

Dr. Hiren Patel
Principal

**Sarvajanik College of
Engineering and
Technology**





Institute of Electrical and Electronics Engineers (IEEE)

Prof. (Dr.) Chirag N. Paunwala

Professor
Electronics & Communication
Engineering

COLLABORATOR CERTIFICATE DISTRIBUTION



Ashish Desai

I/C Registrar
Sarvajanik University

**STUDENT STARTUP
AND INNOVATION
CELL (SSIC), SCET**

Indian Society for Technical Education (ISTE), SCET

Dr. Mehali Mehta

Associate Professor
Civil Engineering
Department



COLLABORATOR CERTIFICATE DISTRIBUTION

Prof. (Dr.) Keyur Rana

Professor
Computer Engineering
Department

**Computer Society of
India (CSI), SCET**



Collaboration between NASA Space Apps Challenge 2024 Surat and STPL



We are honored to be recognized as a collaborator for the NASA Space Apps Challenge 2024 Surat, hosted by Sarvajani College of Engineering & Technology and Sarvajani University. This collaboration highlights our commitment at STPLGlobal to fostering innovation and driving the tech-forward vision of a brighter future through strategic partnerships.

At STPLGlobal, we are dedicated to empowering the next generation of tech leaders, nurturing creativity, and pushing the limits of technology. Through this collaboration, we aim to inspire and support next-gen innovators while shaping the future of technology with cutting-edge solutions. Together, we are paving the way for a brighter future and empowering students to become the creative minds of tomorrow.

CERTIFICATION FOR JUDGES



DISHANT LODALIYA

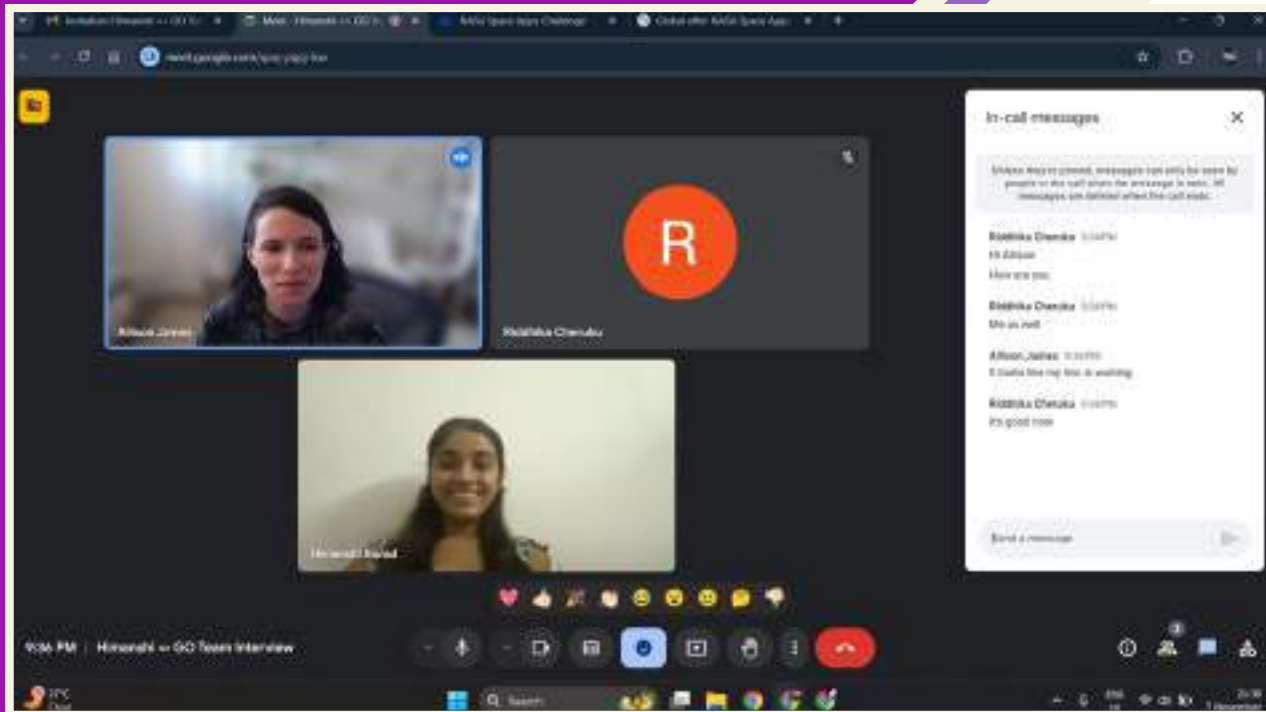
Information Technology Head
Whitelion

Co-Founder
11za

GARVIT CHORARIA



INTERVIEW WITH GLOBAL ORGANIZING TEAM



ALLISON JAMES

Manager GO TEAM

7th November, 2024

Thursday

The post-hackathon interview with Allison James shed light on the highlights of the NASA Space Apps Surat 2024 event. During the discussion, Allison applauded the exceptional projects developed by participants, particularly those showcasing innovative approaches to real-world challenges using NASA's open data. She also commended the emphasis on Women's Empowerment, celebrating the strong representation of women in leadership and participation.

The interview highlighted the significant role of collaborators in making the hackathon a success, showcasing their support in fostering creativity and innovation. Allison also discussed the impact of the hackathon in Surat, emphasizing how it inspired the local community to explore science and technology, bringing global problem-solving to a local stage and leaving a lasting legacy in the city.



NASA TM
INTERNATIONAL
SPACE APPS
CHALLENGE
SURAT

THANK
YOU

Dr. Dipali Kasat

Chairperson

NASA Space Apps Challenge, Surat

HOD, Computer Engg. Dept.

Prof. Dhatri Pandya

Faculty Lead

NASA Space Apps Challenge, Surat


Assistant Professor, Computer Engg. Dept.

Himanshi Borad

Local Lead

NASA Space Apps Challenge, Surat



 nasaspaceappssurat@gmail.com

Riddhika Cheruku

Co-Lead

NASA Space Apps Challenge, Surat

<https://www.spaceappschallenge.org/nasa-space-apps-2024/2024-local-events/surat/>