

NASA SPACE APPS CHALLENGE 2021

EVENT REPORT



48 HOURS

HACKATHON

Powered by :
SPACE APP INDIA

Website:
<http://spaceappindia.org/>

<https://2021.spaceappschallenge.org/locations/mumbai/event>

<https://2021.spaceappschallenge.org/locations/bangalore-karnataka/event>

<https://2021.spaceappschallenge.org/locations/nagpur-maharashtra/event>

<http://sumvn.in>



SPACE APPS INDIA

CONCEPT:

The International Space Apps Challenge is an international mass collaboration focused on space exploration that takes place in different cities around the world. The event embraces collaborative problem solving with a goal of producing relevant open-source solutions to address global needs applicable to both life on Earth and life in space. NASA is leading this global collaboration along with a number of government collaborators and over 100 local organizing teams across the globe.

Objective of Space App India:

The main objective of conducting these events is to make students conscious of what is happening in today's world in space technology and also to make them the job generators instead of job seekers. We mainly concentrated on women entrepreneurs coming out of colleges. In INDIA the main downside of students studying in level-2 colleges are, they are not familiar with the opportunities they have at this point in time. Though they have ideas they don't come forward either, they don't find any platform to showcase it or they don't have any mentoring. So to overcome this problem we team SUMVN are giving them a platform where they have all the opportunities to make their ideas into a real-time application.

DATE: 2nd-4th OCTOBER 21

DURATION: 48 hours.

LOCATION: Online Hackathon



Space Apps India Team:

- Katapally Saikiran
- Tripti Singhal Somani
- Chakradhar Sangepu
- Keshav Tiwari
- Deepika Garg
- P.Deepika Joshi
- Manish Kumar Gutta
- Pavana Chaitra
- Priyadarshini Panda
- Ahmad Abubakar Mustapha
- M.Vamsi

Organizing Team:

- Mustapha
- Hamisu Ali Kime
- Mishwasree
- Naina Singh
- Vamshi
- Jyothi Laxmi
- Priyandi Kabasi
- Prakrati Chourasia



Number of organizers across India: 50

Number of Volunteers across India:100

University and Colleges:

- BITS PILANI HYDERABAD
- GITAM VIZAG
- Bharathi Vidyapeeth's College Of Engineering Delhi
- GITAM BANGALORE
- Mahindra University
- Dayananda Sagar College Of Engineering Bangalore
- Assam Women's University

GOALS:

- To bring forth innovative ideas and solutions to the problem statements provided by Space Apps Team.
- To encourage students to know about hackathon culture and how to solve real time issues or problems using NASA open data
- To form Space Apps Student Community in tier 2 and tier 3 colleges



ABOUT SPACE APPS INDIA:

It's the Fourth Edition of Space Apps India. Where 20,000 Students participated all around India in around 7 states. In 2018 and 2019 around 1,00,000 students took part in bootcamps all over India in around 7 states.

The purpose of the event is to continue to give people everywhere an unprecedented opportunity to use NASA data to develop meaningful solutions to help to address critical needs applicable to both life in space and on Earth, and that it becomes a global community of individuals excited about collaborating to advance the frontiers of space science and technology. We have conducted it in **Andhra Pradesh, Telangana, Rajasthan, Karnataka, West Bengal, Uttar Pradesh, Kerala, New Delhi, Maharashtra, Odisha**. We are happy to inform that almost 70,000 students took part in boot camps all over INDIA and 20,000 enthusiasts participated in the pre-qualifier rounds of the hackathon in Different states of INDIA. From each state, we selected top 3 or 4 teams who participated in the National round of hackathon happen on **OCT 2nd-4th**. 851 students were selected for the India finals which took place on 2nd to 4th October 2020.

ABOUT THE EVENT(IN DETAIL):

The event began with the formal inauguration ceremony. After which the pitching of the ideas by the participants started. Total 136 teams were registered and participated as a part of the Final round. During the idea of pitching, each team was given about 2 minutes to register their team into the competition by presenting their ideas/concept.

Idea pitching was followed by prototyping of the concept. Post lunch, the students started working on their ideas from given challenges. Experts on their key technologies like Web Development, Android, etc provided the mentoring to students.

SUMVN team were also available there and interacted with students as a mentor to get valuable inputs from them and validate their ideas and work on the improvement areas their ideas might have. After which the mentor validated the ideas of students.

There are checkpoints for validating the ideas of participants. There were checkpoints at a certain interval. Between each checkpoint, participants get the mentoring if they required. The next round of pitching started after Breakfast after which top 3 teams were selected by the jury and awarded. This Year we introduced one more award call Non-Technical Award which is won by 2 teams.

CHALLENGES ON WHICH THE STUDENTS WORKED ON:

- **OBSERVE**
- **INFORM**
- **SUSTAIN**
- **CREATE**
- **CONFRONT**
- **CONNECT**
- **INVENT YOUR OWN CHALLENGE**



NO OF PARTICIPANTS ATTENDED FOR FINALS: 851

NO OF TEAMS REGISTERED: 136

AGENDA OF THE EVENT:

Bootcamp conducted on 2nd October 2021 where all the participants were told about the guideline's and work pattern for the next two days.

Boot camp: (02/10/2021)

S.No	SESSION	TIME	VENUE
1.	Registrations	16:00 to 17:30	Online
2.	Inauguration by Leads	17:30 to 18:00	Online
3.	Introduction to NASA Space Apps Challenges	18:00 to 19:00	Online
4.	Queries	19:00 to 19:30	Online
5.	Closing of Bootcamp	19:30 to 20:00	Online

Day 1: (03/10/2021)

S.No	SESSION	TIME	VENUE
1.	Registrations	9:30 to 10:30	Online
2.	Inauguration by guests	10:30 to 11:15	Online

3.	Introduction to NASA Space Apps Challenge	11:15 to 11:30	Online
4.	Team introduction and Elevator Pitching	11:30 to 12:40	Online
5.	Lunch	12:40 to 13:30	Online
6.	Working on ideas	13:30 to 15:30	Online
7.	Talk by GUEST	15:30 to 16:00	Online
8.	Mapping and processing on Ideas	16:00 to 18:00	Online
9.	Break	18:00 to 18:30	Online
10.	Mentoring on ideated teams	18:30 to 21:30	Online
11.	Dinner	21:30 to 22:30	Online
12.	Networking and Prototyping	22:30 to 00:00	Online

Day 2:(04/10/2021)

S.No	SESSION	TIME	VENUE
13.	Networking and Prototyping	00:00 to 01:30	Online
14.	Fun session	01:30 to 02:30	Online
15.	Validation of Ideas	02:30 to 06:30	Online
16.	Fresh up and Breakfast	06:30 to 08:30	Online
17.	Hacking Resume	08:30 to 12:00	Online
18.	1st round of Scrutinization	12:00 to 14:30	Online
19.	Lunch	14:30 to 15:30	Online
20.	Final Pitching	15:45 to 17:45	Online
21.	Awarding Ceremony	17:45 to 18:15	Online
22.	Closing ceremony	18:15 to 18:30	Online



MEMBERS OF THE JURY:

- Dr.Kaushik Madakasira, CEO - VIBA & Mentor of Change, AIM, NITI AAYOG, Govt. of India
- Mr.Sabyasachi Mukhopadhyay, Google Developer Expert in Machine Learning & TensorFlow Core, BIMS Kolkata, Intel Software Innovator, TEDx Speaker.
- Mrs. P.Deepika Joshi, Director of IDEAOVATOR SOLUTIONS
- Mr.Krishna Teja Penamakuru, Co-Founder Dhruva Space

PARTNERS:

- **Supported by:**
Government of Telangana
Start-up India
Research and Innovation Circle of Hyderabad
- **Knowledge Partner:**
Department of Science and Technology
- **Organized by-**SUMVN, Space App India
- **Co-Organized by –** Goal Street.
- **Digital Media Partner -** OUTSHADE Digital Media
- **Community Partner-** 91Springboard, Facebook Developer Circle
- **Incubation Partner-** VIBA, AIC-DSU
- **Resource Partner-** Womenovator
- **Mentoring Partner-** Dhruva Space
- **Acceleration Partner-** Ideaovator



RESOURCES PROVIDED:

- Printing brochures and posters.
- Electricity.
- Wi-Fi.
- Water supply.
- Photography.
- Social media support
- Mementos.
- Certificates.

Results:

- The event was successful with 851 participants.
- Among 136 teams 3 top teams were selected for the International round of the Hackathon and 2 teams were selected in Non-Technical Category.
- The winners were selected based on how technically sound they are, their creativity, presentation ability to define their concept work and the how the participants used the data set provided by NASA.

Winners of Mumbai location:

Position: 1st Winner

Team Name: EXPLORER

Challenge Selected: [What on Earth is Synthetic Aperture Radar?](#)

About Project:

<https://2021.spaceappschallenge.org/challenges/statements/what-on-earth-is-synthetic-aperture-radar/teams/explorer-akms/project>



Position: 2nd Winner

Team Name: NOVICES

Challenge Selected: [**COVID-19: Calculate the Risk**](#)

About Project:

<https://2021.spaceappschallenge.org/challenges/statements/covid-19-calculate-the-risk/teams/novices/project>

Position: People Choice (Got 662 Votes)

Team Name: SOLAR EXPLORERS

Challenge Selected: [**Unlocking the Secrets of the Sun**](#)

About Project:

<https://2021.spaceappschallenge.org/challenges/statements/unlocking-the-secrets-of-the-sun/teams/solar-explorers/project>



Future Development:

- To create a community called Space Apps student community to ensure that the students learn about technology and build up their ideas into products and solve real-time problems of the world which will be addressing in upcoming hackathons which are going to be conducted in the future.
- To support the students selected to the next round of Space Apps hackathon by providing relevant mentors and technical experts.
- To support innovations in the community from layman and young students.
 - We as the Young Entrepreneur of the country are very enthusiastic to extend our hands and support for the growth of the country
 - Events like this happen only in IITs and Nits. Other college isn't much aware of these and doesn't get the opportunity to expose students to such innovation. We want to conduct the events in such colleges where ideas of the students are helpful for the society

Testimonial:

R.A Mashelkar-Former Director General of CSIR: All my best wishes with you Space Apps Team And SUMVN

Jayesh Ranjan, IAS-principal Secretary, Govt of Telangana: It's a platform where entrepreneur, students, innovators come up with bright ideas and connect with technology and sciences

Ajit Rangnekar,Director General at Research and Innovation Circle of Hyderabad Partner,SVP India: I am delighted that SUMVN ,Hyderabad based startup initiated Space App India and conducting this. Space Applications is going to be increasingly important in all works of life. I wish you All the Best.

Srinivas Kollipara-CEO, T-Hub:This going to be rolled out at a national level, they expect much more participation last event students came up with brilliant and amazing ideas and I'm sure it will be better this year.

Phanindra Sama-Chief innovation Officer, Govt of Telangana: Dear Nasa Space Apps Challenge Participants of 2018 a big congrats for you for participating in event, I encourage you to participate more and more in such events because events like this are stroke to show our creativity, test our Imagination

Amrapali KATA, IAS-Warangal Collector: If you are an engineer designer and if you are researcher, Startup of course anybody who is interested in problem solving you have to participate in this event.

Madiha Ahmed-Social Psychologist & Researcher: Great job in space technology.

Tripti Shinghal Somani – Founder of KGS Advisors: Great team work SUMVN, Proud to be your partner.

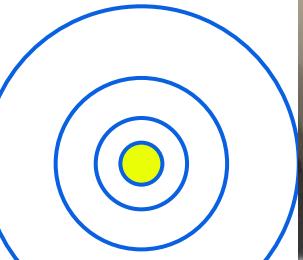
Abi Aryan-Data Scientist: NASA Space Apps challenge is a fantastic opportunity brought to students all over the country by SUMVN's fantastic team to develop meaningful solutions to help to address critical needs applicable to both life in space and on Earth. I highly recommend every college student to participate in it. The community element of events organized by SUMVN is in itself worth the time commitment for the fantastic friendships you build during the course of these events that shall stay with you for a lifetime.

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PICTURES







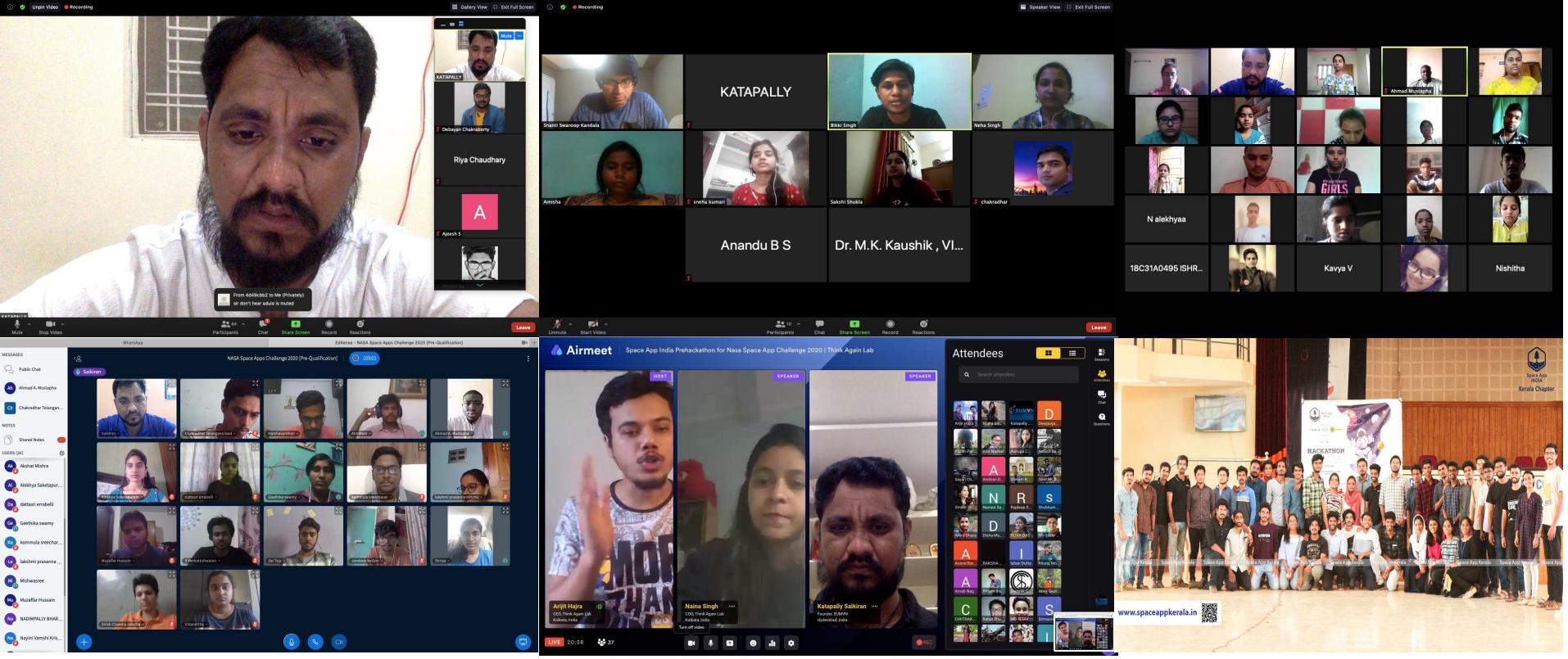
SRI Bhupali Kumar A

President, H





Felicitating Winners and Partners of Space App India.



Space Apps Challenge 2020.



Space Talks

Season 2

15th SEPTEMBER 2021

MRS.VANITHA DATLA
Vice Chairperson & Managing Director, ELICO Ltd

Women Empowerment and Opportunity in Space Technology

SAVE THE DATE

Co-Organized by SUMVN, GOALSTREET, RICH, IIM Calcutta, DHRUYA, Outshade, iHub, VABA, AED-SU, IDEAVATOR
Supported by Knowledge Partner, Resource Partner, Monitoring Partner, Digital Partner, Incubation Partner, Acceleration partner

20th SEPTEMBER 2021

MR.VISHAL LATHA BALAKUMAR
Mission Specialist, Dhruva Space

Opportunities in Space Technology for Both Technical and Non-Technical Students

SAVE THE DATE

Co-Organized by SUMVN, GOALSTREET, RICH, IIM Calcutta, DHRUYA, Outshade, iHub, VABA, AED-SU, IDEAVATOR
Supported by Knowledge Partner, Resource Partner, Monitoring Partner, Digital Partner, Incubation Partner, Acceleration partner

30th SEPTEMBER 2021

MS.SANCHITA GAJAPATI
Founder Trustee at SANA

The Use of Technology for Social Impact?

SAVE THE DATE

Co-Organized by SUMVN, GOALSTREET, RICH, IIM Calcutta, DHRUYA, Outshade, iHub, VABA, AED-SU, IDEAVATOR
Supported by Knowledge Partner, Resource Partner, Monitoring Partner, Digital Partner, Incubation Partner, Acceleration partner

Space Talks

Season 2

25th SEPTEMBER 2021

MR.MANISH KUMAR GUTTA
Founder & CEO Outshade Digital Media

His Startup Journey of OUTSHADE DIGITAL MEDIA

SAVE THE DATE

Co-Organized by SUMVN, GOALSTREET, RICH, IIM Calcutta, DHRUYA, Outshade, iHub, VABA, AED-SU, IDEAVATOR
Supported by Knowledge Partner, Resource Partner, Monitoring Partner, Digital Partner, Incubation Partner, Acceleration partner

28th SEPTEMBER 2021

MS. SAKSHI SHUKLA
Computational Linguistics at University of Stuttgart

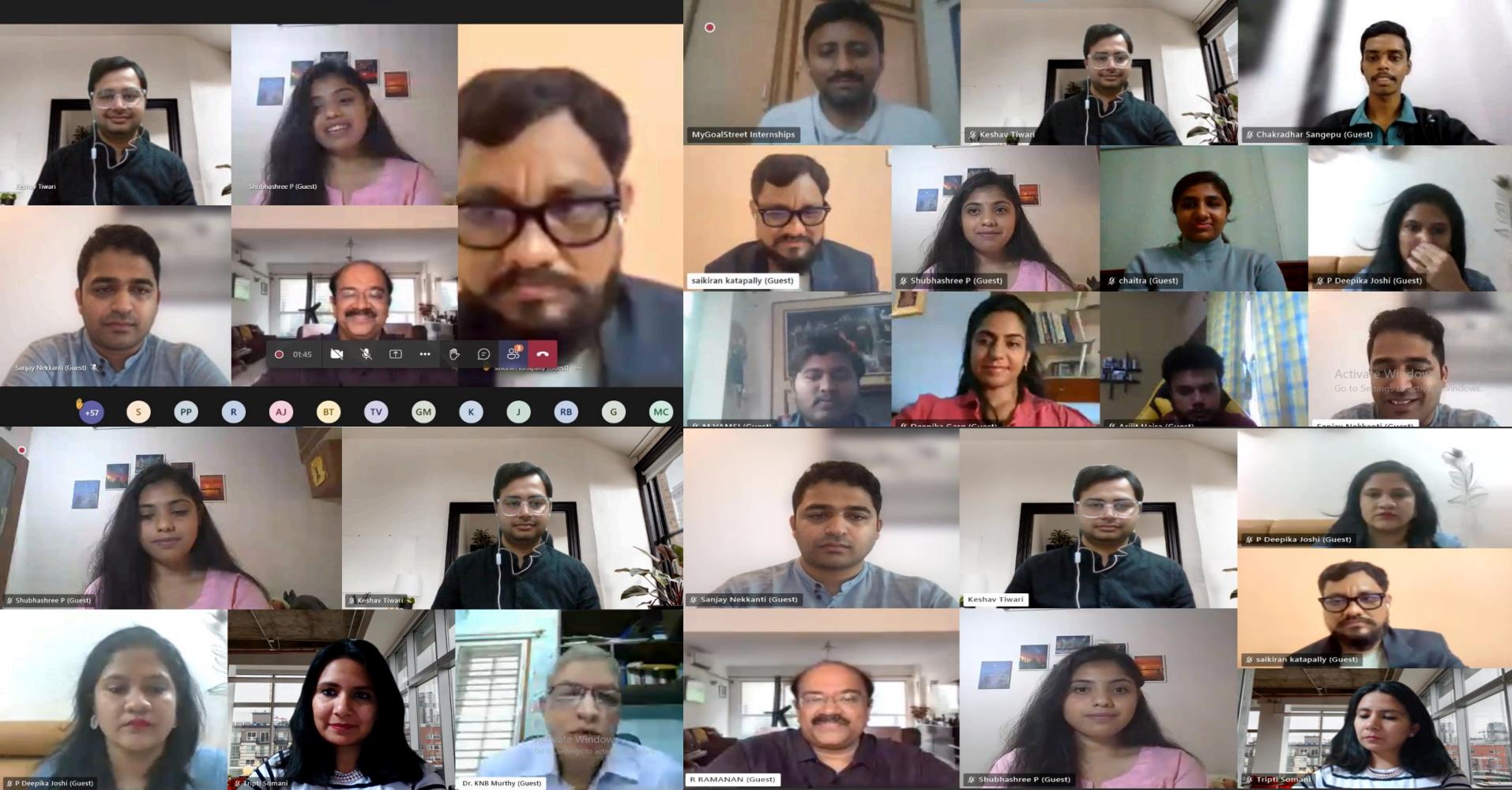
The Incredible Inventions of Intuitive AI

SAVE THE DATE

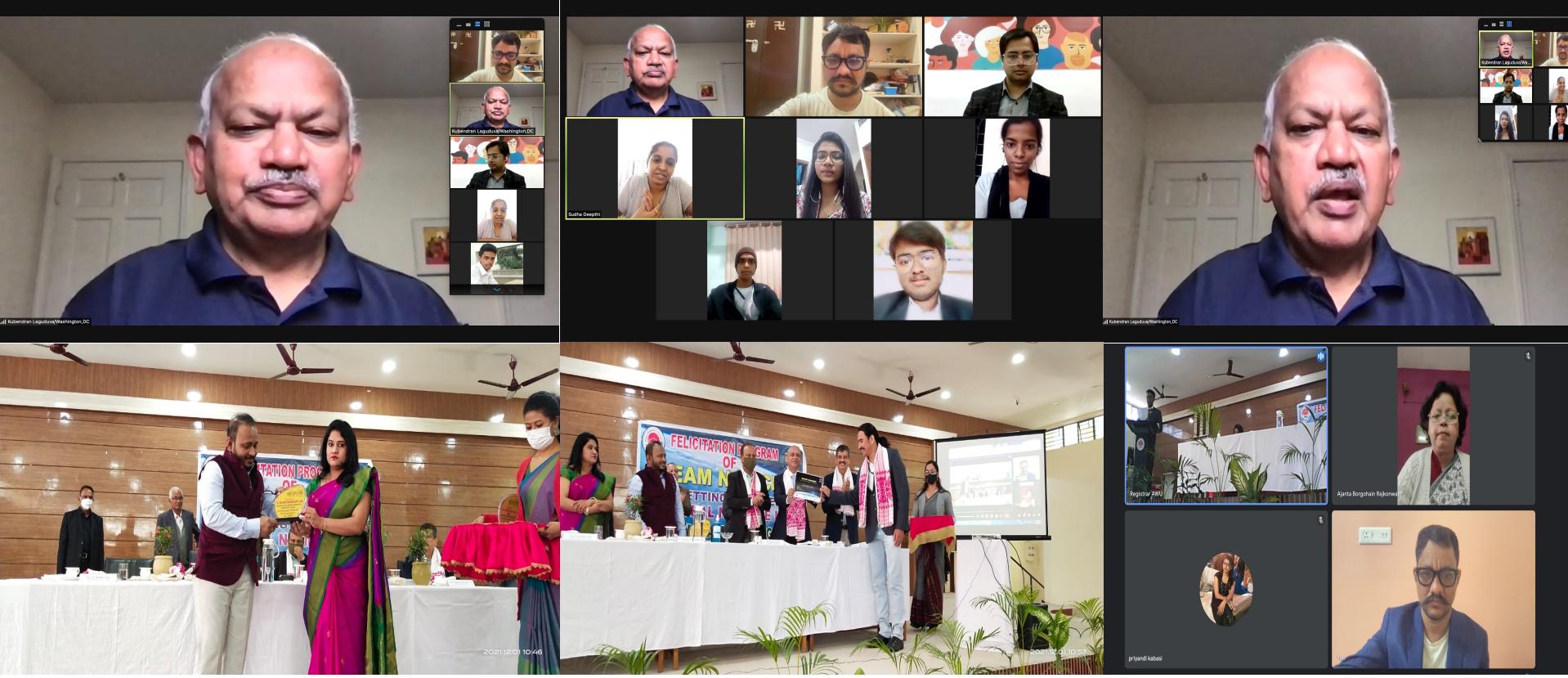
Co-Organized by SUMVN, GOALSTREET, RICH, IIM Calcutta, DHRUYA, Outshade, iHub, VABA, AED-SU, IDEAVATOR
Supported by Knowledge Partner, Resource Partner, Monitoring Partner, Digital Partner, Incubation Partner, Acceleration partner

Space Talks 2021.





Space Apps Challenge 2021.



Space Apps Challenge 2021.





Space Apps Challenge 2021.



Space Apps Challenge 2021.