

PROJECT TITLE: GEOQUEST: Empowering Space Enthusiasts

Team Members: Ms. Laxmi Goparaju, Ms. Samina Parveen, Ms. Sameera Parveen, Mr. Alabi Bukunmi Timothy, Mr. Paramveer Singh Thind, Ms. Soumya BK.

High Level Project Summary: It provides a high-level summary of your project. What did you develop? How does it "solve" the challenge? Why is it important?

Satellite Remote Sensing data or Earth Observation data facilitates observing the features and phenomena on the surface of the Earth, both spatially and temporally. This enriching data can be used in every sector by policy makers and stakeholders in making informed decisions to save time and lives. To achieve this goal, they need to have an understanding of how to use such data in the relevant field.

NASA offers capacity building opportunities for a global audience via Applied Remote Sensing Training (ARSET) for all space enthusiasts who wish to improve life on Earth. ARSET is available both online and offline training tailored to the needs at all stages of learning beginner, Intermediate and advanced. It provides an opportunity to get acquainted with vast repositories of data NASA has treasured and also to learn access and harness the benefits of a wide variety of data. A demo session after the lecture is quite interesting to imbibe the practical experience. Questions and Answer sessions are quite enlightening. In a short span of time, one is equipped with the knowledge to tackle the issue independently.

Addressing the challenge we developed a website where one can find training resources from beginner, intermediate to advanced level. It is also segregated according to the topics of interest. It is user friendly; hence one can find training suitable to suffice his/her needs

One such stop where we can discover the wealth of training resources for Earth Observation is “GEOQUEST”. The only gateway where you can delve deep into the topic of your interest as it is user friendly and interactive.

LINK TO FINAL PROJECT:

LINK TO THE PROJECT DEMO: **SLIDE DECK OR VIDEO?**

DETAILED PROJECT DESCRIPTION: Provide additional details about your project. What exactly does it do? How does it work? What benefits does it have? What do you hope to achieve? What tools, coding languages, hardware, or software did you use to develop your project?

SPACE AGENCY DATA: Provide specific details about what space agency data you used in your project, how you used it, or how it inspired your project. Remember: You are welcome to use any open data in your project. However, to be eligible for Global Judging, you must use at least some open-source data from NASA and/or from one of the Space Agency Partners for 2022 (Australian Space Agency, Brazilian Space Agency, Canadian Space Agency, European Space Agency, Indian Space Research Organisation, Japan Aerospace Exploration Agency, Mexican Space Agency, National Space Activities Commission of Argentina, National Space Science Agency of Bahrain, Paraguayan Space Agency, South African National Space Agency).

We will be using data from NASA ARSET.

HACKATHON JOURNEY: How would you describe your Space Apps experience? What did you learn? What inspired your team to choose this challenge? What was your approach to developing this project? How did your team resolve setbacks and challenges? Is there anyone you'd like to thank and why?

References: List all of the data, resources, and tools used in your project. Resources should include any code, text, and images (even if they are open source or freely available) that you used when creating your solution. If you are using any copyrighted materials, make sure you have permission to use them.