



SKILLS

Inter-Personal

-Communication - verbal and written-
-Marketing-

Programming

-Python-
-R-
-Shell Scripting-

Techniques

-Digital Image Processing-
-Hyperspectral Image Processing-
-Planetary Satellite Data Handling-
-Time Series Analysis-
-Time Series Forecasting-
-Software Development-

Computer

-High Performance Computing (HPC) :
Hardware, DIP, Simulations, Modelling-
-Computer Hardware-
-Computer Networking-

Software

-ENVI- -Linux-
-QGIS- -Windows Server-
-ArcGIS- -AutoCAD-
-SAP ERP- -STAAD-Pro-

Operational

-Pre/Post Sales-
-Tendering-
-Management Information System-

Instrumentation

-Echoboat:Bathymetry-
-UV/Vis Spectrophotometer-
-Flame Photometer-
-Atomic Absorption Spectrophotometer-
-High Performance Liquid Chromatography-

Language

-English -Read, Write, Speak, Fluent-
-Hindi -Read, Write, Speak, Fluent-
-Russian-Read, Write, Speak, Basic-

About Me

I am a dedicated researcher presently conducting groundbreaking research on lunar volatiles utilizing multiple advanced planetary remote sensing data. With a strong educational background in Environmental Technology and Civil Engineering, I have also gained valuable experience as an engineer at Everest Industries, honing skills in marketing and project management. I am looking for a suitable role to which I can contribute as well as learn from.

Experience



-Senior Research Fellow

- (INSPIRE Ph.D. Fellowship) Jan, 2022 - Present
- Indian Institute of Remote Sensing (IIRS-ISRO) A Research organization focused on remote sensing

-- Conducting doctoral research on the topic "A Study of Lunar Volatiles Using Remote Sensing Data" at Indian Institute of Remote Sensing (IIRS-ISRO) and Doon University

-Engineer

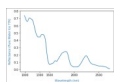


- August, 2014 - June, 2018
- Everest Industries Limited - A leading manufacturer of building materials with a focus on providing innovative end to end Steel Building Solutions

-- Worked with the Steel Building Vertical of Everest Industries Limited in Marketing, Pre-sales, Project Management, and Tender Bidding

Projects

- M.Tech. Thesis - "Study of Lunar Water Ice Using Remote Sensing Data"



- ♦ Hyper-spectral and other signature detection of water ice molecules using five planetary datasets in the Permanently Shaded Regions of Shackleton Crater on the Lunar South Pole

- SelenoRef



- ♦ Software developed for seleno-referencing hyper-spectral data cubes acquired using Imaging Infra-Red Spectrometer (IIRS) instrument on-board Chandrayaan-2

- ♦ <https://zenodo.org/records/10007761>

- legends



- ♦ Software developed for performing essential GIS processing on very large datasets in bulk

- ♦ <https://zenodo.org/records/10959998>

Education



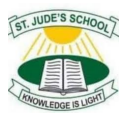
Master of Technology - Environmental Technology

- August, 2018- July, 2020
- Doon University, Dehradun, Uttarakhand, India
- Gold Medalist (CGPA 9.46/10)



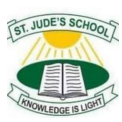
Bachelor of Technology - Civil Engineering

- August, 2010- July, 2014
- Graphic Era University, Dehradun, Uttarakhand, India
- First Division with Distinction 85.79% (with merit scholarship)



Intermediate - ISC

- April, 2009-March, 2010
- St. Jude's School, Dehradun, Uttarakhand, India
- 84% (with merit scholarship)



High School - ICSE

- April, 2007-March, 2008
- St. Jude's School, Dehradun, Uttarakhand, India
- 87%

Publications

- Multi-mission, multi-sensor study of the Shackleton Crater constrained for volatiles with emphasis on albedo distribution of the Lunar South Pole
♦ <https://doi.org/10.1016/j.asr.2023.10.017>
- Python-Based Open-Source Tool for Automating Seleno-Referencing of Chandrayaan-2 *Hyper-Spectral* Data Cubes
♦ <https://doi.org/10.1007/s12524-024-01814-4>