

Name : Sumedha Sharma

Phone no. : 8294806976

Career Objective

Geoinformatics professional with basic knowledge of Earth Sciences (geophysics and geology) , Remote sensing Imageries and competence with Arc Suite software's, python and google earth engine.

I additionally possess on target interpersonal skills followed up by good communication and presentation abilities.

Education Credentials

Year(s)	Qualification – Degree / Diploma / Certificate	Board/University	College / Institute/ University	Percentage / CGPA
2019-present	M.tech	BIT , Mesra	Birla Institute of Technology , Mesra	Sem1: 8.72/10 Sem2: 8.96/10 Sem3: Yet to be declared
2012-2013	XII	CBSE	Seth Anandram Jaipuria School	76%
2010-2011	X	CBSE	Seth Anandram Jaipuria School	81.6%
2014-2018	B.Tech	UPES	College of Engineering Studies	2.49/4

EXPERIENCE:

29 July 2020 – 30 April 2021:

Indian Space Research Organization (ISRO/SAC, Ahmedabad)

Mentor: Dr. Praveen Kumar Gupta & Dr. Anand S S.

Project Objectives:

- Reservoir/wetland water volume estimation in real time using Sentinel 1 dataset and analyzing change in aerial extent over 3 years further analyzing the curves of area and storage with level on GEE platform.

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- Development of RS based water spread library and linking with water volume (to provide spatial extents corresponding to different water volumes).
- Forecasting with different lead time using various Machine learning and Deep learning approaches.

05/2020 – 06/2020 – Delineation of a potential Bore well Site for sirivilliputhur district of Virudhnagar, Tamil Nadu

Company name: Geosensing and Imaging

Mentor : Dr. Sunderbalan

- Delineating Ground Water potential zones by studying Geological Parameters such as slope, rainfall dataset, Water level of the boreholes (Acquired from CGWB), Lineament, Geomorphology, LULC, Topographic position index.
- We made use of Webmapping services to import Geomorphology, Landuse landcover maps of TamilNadu and further used them in QGIS for analysis purpose.

04/2018 – 01/2019 – Trainee of Hydrocarbon Machines

Crest Ultrasonic Pvt. Ltd , Patpadganj (Delhi)

- Studied and tested the effect of precise cleaning of metal part material by integration the technology of ultrasonic and vapour degreasing using Hydrocarbon and solvents (chlorinated, fluorinated and brominated) further **searching for its market application.** Which involves finding the right customer for the product.
- Its application varies in the market from medical industry, Aerospace technology and also to nuclear operations (BARC) etc.
- Vapour degreasing process is a safe technique for cleaning metal parts precisely.

Academic Achievements:

- Ranked 1st in Speech on Women in science on 'National Science Day' organized at BIT Mesra by TEQUIP.
- Ranked 1st Debate competition on the topic "India's economy and hydrocarbon resources a perfect match" at KDMIPE ONGC in 2014.
- Ranked 2nd in group discussion competition held on the topic Mining Economics and Legislation
- Ranked 2nd in the Mettle at IIT BHU presented work on "Reliable coal refuse management using Remote sensing techniques".

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- Ranked 2nd in Mettle at IIT BHU Proposed the problems caused due to oil spills over oceanic bodies and its identification using Remote sensing techniques.
- Ranked 1st in mock placement drive which included a series of competitions such as aptitude test, Group discussion, and personal interview conducted by T.I.M.E Dehradun.
- Industrial Visit to Infosys, Bengaluru and Infosys, Mysore as well as Wipro, Bengaluru

Extra-Curricular Achievements

- Won Miss Bitotsav title at Cultural fest BIT , Mesra.
- Won in Rags to Riches a business management competition (making money out of provided resources) organized by E-Cell UPES
- Worked as a core committee member of Uurja (2014-15).
- Integral part of organizing team of Mr./Ms. Fresher's (2015)
- Core committee member of YUVA: a non-profit organization.
- Core committee member of American Association of Petroleum Geologists
- Head Girl at School (2012-2013).
- Participated and won elocutions, debates and group discussions organized in school fests and Interschool level.

Other Projects Undertaken

Summer Internship Project:

Company- Uttarakhand Space Application Centre, Dehradun

Duration- 1 June 2017 – 15 July 2017

Key Skills –Site selection for solid waste management using Analytical Hierarchy Process (AHP) method focusing on Dehradun also analyzing appropriate network for minimizing time & fuel consumption of Nagar nigam vans .

Skills Acquired

- Knowledge of AHP and network analysis.
- Ground truthing using **dgps** and **gps**.

Internship Project

Company- Excel Geomatics

Duration-9 December 2016 -13 January 2017

Key Skills-

- Knowledge of Software such as Google Earth, ArcGIS, Erdas Imagine.
- Preparing Land use Land cover, Population Density Maps, Inundation zone analysis.

Minor Project

Mentor: Dr. J Devraju

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Duration- Semester 6 full

- **Analyzing change (drastic decrease) in volume of lakes** around Nainital Region (Uttarakhand) to check for risk of natural calamity using integrated application of Gis & Remote Sensing.

Major Project 2

Mentor: Dr. S K Saha

Duration- Semester 8

Key Skills:

- **Mineral Potential mapping** of Rajasthan (Sirohi).
- Utilizing Aster data and processing it using ENVI.
- Comparing various criteria such as geochemistry, Geology, Lithology of Rajasthan and Using Analytical Hierarchy Process prioritizing them for mineral mapping.
- Creating Weightage overlay maps

Other Project-

Mentor: Dr. VL Narsimham

Key Skills :

- Reliable coal refuse management using integrated technique of Remote Sensing and Gis.
- Appropriate disposal of refuse to prevent environmental pollution, mine fire etc.

Training Undertaken

- **Programming** : C, SQL , Python (Working with satellite dataset and Machine Learning), GEE.
- **Software** : QGIS, ArcGIS , Erdas Imagine , Envi , Timesat (for performing NDVI time series analysis).
- **Microsoft Office** : Excel, PowerPoint , Word .

Personal Details :

Date of Birth : 04-02-1996

Father's Name : Mr. Ravi Ranjan Sharma

Mother's Name : Mrs. Shubhra Sharma

Home : Vasundhara, Ghaziabad , India

Permanent Address : Sector 2, Block B, House no. 343 Vasundhara Ghaziabad , India

Languages Known : English, Hindi

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Mobility : Global

I declare that the details above are correct and true to the best of my knowledge.

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