



RAHUL GARG | 19GG40020

GEOLOGY (2Yr. M.Sc.)

### EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	M.SC(2YR)	Indian Institute of Technology, Kharagpur	9.16 / 10
2019	Geology (H)	Hansraj College, University of Delhi	7.575 / 10
2016	CBSE Senior Secondary Examination	Kendriya Vidyalaya Bharatpur	88%
2014	CBSE Secondary Examination	Kendriya Vidyalaya Bharatpur	9.0 / 10.0

### COURSEWORK INFORMATION

Advanced Structural Geology, Earth and Planetary Science, Igneous Petrogenesis, Geochemistry, Geophysical Prospecting, Sedimentary Petrology, Metamorphic Phase Equilibria, Sequence Stratigraphy, Applied Palaeontology, Remote Sensing and GIS, Groundwater and Engineering Geology, Applied Mineralogy, Ore Genesis, Basin Analysis, Reservoir Engineering Fundamentals, Borehole Geophysics, Tectonics and Geodynamics, Environmental Hazards and mitigation.

### AWARDS AND ACHIEVEMENTS

- Secured **AIR- 8** in **GATE GG-2021** examination
- Currently holding Department Rank 8, in 2 Year M.Sc. Geology in Department of Geology and Geophysics, IIT Kharagpur (2019-21).
- Secured **AIR 42** in **JAM 2019** Geology Examination
- Secured **AIR-15** in **NET-LS** June-2020 examination

### SKILLS AND EXPERTISE

- **Expertise:** Rock and fossil hand specimen identification, Ore &Rock microscopy, Microfossil identification. Detailed structural mapping of an area, hand mapping, analysis of field data &graphical representation of the same (Stereo net, Fry Plot, Rf/phi, Mohr circle).
- **Software:** ArcGIS, QGIS, Erdas Imagine, Google Earth, MS Office
- **Programming language:** C++, SQL, Machine Learning.

### INTERNSHIPS AND PROJECTS

- Online Summer Industrial Training | OIL AND NATURAL GAS CORPORATION LIMITED, DEHRADUN | 28.05.2020 - 29.06.2020. On "**Facies Characterisation, SYN-Sedimentary Tectonics &Depositional Models: Important Tools for Basin Analysis**". Under the supervision of Mr. Sandeep Kumar Verma, Sr. geologist KDMIPE Dehradun. coursework Information: Sedimentary rock classification, depositional environments, facies analysis, structures, Reservoir description, tectonics of sedimentary basins, Indian basins, and exploration status.
- Completed an online course on '**Satellite Photogrammetry and its Application**' conducted by IIRS Dehradun from 29-06-2020 to 03-07-2020.
- **Master's Thesis Project** IIT Kharagpur (July 2020- Present): In Hydrogeology on "**Groundwater potential zones mapping using Remote Sensing and GIS with the help of MCDM techniques**". Under the Guidance of Dr. Abhijeet Mukherjee. Prepared various thematic maps using ArcGIS. learned about various satellite data (GRACE, IRS, LANDSAT, SRTM), Analytical Hierachal process (AHP), Global Hydrological Models (PCR-GLOBWB), SWAT model, and a bit of machine learning modelling.

### TRAINING

- Fieldwork in BSc. 1st year featuring Study of Different Rock Types, Structural Features, and Stratigraphy of the area in and around Nainital, Uttarakhand, 2016.
- Fieldwork in BSc. 2nd year featuring the study of Lithology, Sedimentary Structures and the Depositional Environments they indicate and Stratigraphy of the Semri and Kaimur Groups of the **Vindhyan Basin**, exposed in and around Varanasi, U.P., 2018.
- Rigorous **Structural Geology** fieldwork in M.Sc. 1st year featuring **Regional and Detailed Structural Mapping and Strain analysis** in the Metamorphic Terrain of Angul, Orissa, 2019.
- **Sedimentology Fieldwork** in M.Sc. 1st year featuring Litho-logging, Sand body Architecture, and Depositional Environment Interpretation in and around Beohari, Madhya Pradesh, 2019.
- Geophysical Fieldwork about **Electrical Resistivity Survey** in M.Sc. 1st year in IIT Kharagpur Campus, Kharagpur (West Bengal), 2020.

## COMPETITION/CONFERENCE

- Participated in a three-day Conference titled '**TecTask- Structural Geology in 21st century**' organized by the International Union of Geological Science a part of **36th IGC** and hosted by IIT Kharagpur in February 2020.
- Secured **1st position** in Quiz competition organized by AAPG chapter Delhi University.
- Active participation in various National level online Quiz competitions.

## POSITIONS OF RESPONSIBILITY

- **Executive member of PRITHVI 20** (2019-20) Part of the team that successfully conducted First time Prithvi- 2020 via online mode, the largest annual Geoscience Fest in India, my team Successfully managed immense participation of students in the Terra wars event in Prithvi, 2020.
- **Coordinator, Earth Science Study Circle (E.S.S.C.), IIT Kharagpur** (July 2020- Present).
- **Mess committee member of LBS Hall of Residence, IIT Kharagpur (2019-2020)**

## EXTRACURRICULAR ACTIVITIES

Participated in 28<sup>th</sup> Regional level youth parliament hosted by KV no.5 Gwalior. Active member of AAPG student chapter IIT Kharagpur and participated in various events, Member of Aquatic Society IIT Kharagpur, Member of Tennis club, IIT Kharagpur. Interested in Travelling, photography.