

Md Ashraf

✉ 23mc0049@iitism.ac.in

☎ 8434587197

in [ashraf-iit-ism](#)

🔗 [Ashraf8434](#)

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Education

Indian Institute of Technology (ISM), Dhanbad
MSc(Tech), Applied GeoPhysics (GPA: 8.07 / 10.00)

Expected May 2026
Dhanbad, Jharkhand

Patna Science College (Patna University)
BSc Physics (Hons) (74.38%)

2019-2022
Patna, Bihar

+2 Islamia High School, Simri Bakhtiyarpur
Matriculation (Class 10) (86.6%) & Intermediate (Class 12) (84.8%)

2015-2019
Saharsa, Bihar

Experience

Divecha Centre for Climate Change, IISc Bangalore
Training on Glacier studies and Remote sensing

18 June 2024 – 28 June 2024
Bangalore, Karnataka

- Focused on glaciology, including glacier and snow cover distribution, remote sensing, and climate change impacts. Experienced in performing topographic reflectance corrections, estimating glacier depth, and evaluating climate-related impacts.

Indian Institute of Technology(ISM),Dhanbad
Geological Field Training

December 2023
Tetulmari,Basudebpur

- Map orientation,Front and Back bearing, Analysis of rock types and mineralogy, Assessment of rock strength with related tests, and measurement of dip and strike of geological structures.

NVCTI, IIT (ISM)
Workshop on Industrial Automation

August 2024
Dhanbad, Jharkhand

- Understanding of automation system, Pneumatic and Hydraulic systems, circuit design, and electro-pneumatic systems.

Projects

Indian Institute of Science (IISc), Bangalore | To Estimate the Co-seismic Surface Deformation using GPS Measurements
Summer Research Internship 🔄 May 2024 - July 2024

- * Investigated the 2015 Gorkha earthquake's impact on crustal deformation and GPS sites velocities using GAMIT/GLOBK. Processed GPS data from 26 GNSS and 12 IGS stations over the period of 2010-2016. Generated earthquake movement-related time-series plots and evaluated earthquake-induced surface movements and deformation.
- * Converted CNX format data to RNX and performed data processing to ensure accuracy and completeness in the analysis.

GORGONICHTHYS-1: Well Logging Analysis | Python, Pandas, Numpy, Matplotlib, Lasio, Seaborn
Case Study at IIT (ISM) Dhanbad 🔄 March 2024 - April 2024

- * Conducted a comprehensive petrophysical case study of the Gorgonichthys-1 well, including sonic tool design, wireline log quality control, outlier detection, porosity estimation, velocity analysis, shale volume and water saturation estimation, and advanced reservoir characterization.

Skills

- **Programming Languages:** Python, Matlab, LaTeX
- **Software Skills:** Seismic-Unix, Tesseral, MS Word, MS PowerPoint, MS Excel
- **Operating Systems:** Linux, Windows
- **Geospatial & Geodetic Tools:** GAMIT / GLOBK, GMT (Generic Mapping Tools)
- **Soft Skills:** Innovative Thinking, Communication, Teamwork, Time Management, Problem-Solving, Adaptability
- **Languages:** Hindi, English, Urdu

Achievements

- **ONGC Scholarship Holder**
- **AIR-11** in JMI MSc (Physics) Entrance Test
- **DST-Inspire Scholar**
- Winner of University-wide Essay Competition on Recent Development in Physics (2022)
- Winner of College-wide Essay Competition on Nanotechnology (2020)
- District Second Topper in Class 10

Positions of Responsibility

- **EAGE IIT ISM Student Chapter** - Content Writer
- **SEG Student Chapter IIT ISM Dhanbad** - Content Writer
- **Chegg (EdTech)** - Subject Matter Expert (Advanced Physics)

Social Engagements

- **Teaching:** Helped students with subjects like Math, Physics, and Chemistry through tutoring sessions.
- **Reading Novels**