

Soumya Mahata

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Education

Indian Institute of Technology (Indian School of Mines), Dhanbad <i>Master of Science and Technology in Applied Geophysics (CGPA: 7.76 / 10.00)</i>	Expected May 2027 Dhanbad, Jharkhand
Ramakrishna Mission Vivekananda Centenary College, Rahara <i>Bachelor of Science in Physics (CGPA: 7.41 / 10.00)</i>	June 2024 Rahara, West Bengal
Ramakrishna Mission Vidyapith, Purulia <i>12th Board (WBCHSE) (Percentage: 86.60 %)</i>	July 2021 Purulia, West Bengal
Ramakrishna Mission Vidyapith, Purulia <i>10th Board (WBBSE) (Percentage: 90.00 %)</i>	May 2019 Purulia, West Bengal

Experience

Geophysical Lab Training Visit CSIR-National Geophysical Research Institute (NGRI), Hyderabad	5th – 16th May, 2025
<ul style="list-style-type: none">• Gained practical exposure to seismology, MT, gravity, magnetics, GPS, and geochemistry through lab tours and expert-led sessions.• Learned seismic data acquisition workflows, and developed basic skills in data processing and interpretation.	
Seismic Modeling and Migration using SeisRTM Participated in a 3-day workshop at IIT (ISM), Dhanbad	8th – 10th February, 2025
<ul style="list-style-type: none">• Gained hands-on experience with reverse time migration (RTM) techniques and seismic data processing using SeisRTM software.	
Winter Geological Field Training On-Site Field Training – Dhanbad, Jharia, Basudevpur and Gomoh Areas	December, 2024
<ul style="list-style-type: none">• Conducted geological fieldwork involving structural measurements, rock identification, and mapping across varied terrains, alongside analyzing the structural and environmental impacts of coal mining.	

Technical Skills

Programming & Markup Languages: Python, SQL (Beginner), \LaTeX , HTML
Tools & Libraries: NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, MS Office (Word, Excel, PowerPoint)
Machine Learning: Basic understanding of machine learning workflows

Area of Interests

- Seismic data processing, interpretation, and advanced imaging for subsurface modeling
- Machine learning applications in seismic analysis for CCS, gas hydrates, and subsurface hydrogen storage

Achievements

- Cleared IIT JAM 2024 (organized by IIT Madras) with All India Rank 995
- Scored 140 out of 300 in CUET PG 2024

Social Engagements

Subject Matter Expert: Freelancer at LearnAsYouGo.

Content Writer: Association of Exploration Geophysicists (AEG) - Student Chapter, IIT (ISM) Dhanbad.

Volunteer: Nara Narayan Seva - an annual event that embodies Sri Ramakrishna's ideal of "serving God in man".

Sports-Engagements: Football, Swimming, Chess, Cricket.