Soumya Mahata

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Education

Indian Institute of Technology (Indian School of Mines), Dhanbad	Expected May 2027
Master of Science and Technology in Applied Geophysics (CGPA: 7.52 / 10.00)	*Dhanbad, Jharkhand*
Ramakrishna Mission Vivekananda Centenary College, Rahara	June 2024
Bachelor of Science in Physics (CGPA: 7.41 / 10.00)	*Rahara, West bengal*
Ramakrishna Mission Vidyapith, Purulia	July 2021
12th Board (WBCHSE) (Percentage: 86.60 %)	*Purulia, West Bengal*
Ramakrishna Mission Vidyapith, Purulia	May 2019
10th Board (WBBSE) (Percentage: 90.00 %)	*Purulia, West Bengal*

Experience

AEG Student Chapter IIT (ISM) Dhanbad January 2025 – Present
Content Writer
- Developed engaging and accurate content for social media, blogs, and newsletters, in collaboration with design and marketing teams, ensuring a consistent and professional brand presence across platforms.

Seismic Modeling and Migration using SeisRTM 8th – 10th February 2025
Attended the 3 Days Workshop
- Gained hands-on experience with reverse time migration (RTM) techniques and seismic data processing using SeisRTM software.

Winter Geological Field Training December, 2024
On-Site Field Training — Dhanbad, Jharia, Basudevpur and Gomoh Areas
- Conducted dip and strike measurements for structural analysis, aiding in comprehensive geological interpretations.
- Performed geological mapping and rock identification across metamorphic, igneous, and sedimentary terrains.
- Analyzed environmental and structural impacts of coal mining on surrounding geological formations.

Technical Skills

Languages: Python
Technologies: MS Office, MS Excel, MS PowerPoint
Concepts: Machine Learning (Beginner), HTML, LaTeX

Area of Interests

- Seismic wave propagation and scattering for characterization of subsurface heterogeneities
- Advanced signal and image processing techniques for geophysical data interpretation
- Machine learning applications in seismic data analysis and seismic hazard assessment

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

Content Writer: Of Association of Exploration Geophysicists - Student Chapter, IIT (ISM) Dhanbad
Volunteer: at Nara Narayan Seva - an annual event that embodies Sri Ramakrishna's ideal of "serving God in man."