

SOMENATH GOSWAMI

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EDUCATION

Indian Institute of Engineering Science and Technology, Shibpur (IIST) July 2026 – Pursuing
PhD in IT Howrah, West Bengal

Maulana Abul Kalam Azad University Of Technology AUG 2023 – Aug 2025
MTECH in IT - CGPA - 8.75 Nadia, West Bengal

Bankura University AUG 2021 – JUL 2023
MSC in Geoinformatics - CGPA - 9.20 Bankura, West Bengal

Bankura University AUG 2018 – JUL 2021
BSC - CGPA - 8.69 Bankura, West Bengal

EXPERIENCE

Swami Vivekananda University, Barrackpore Feb 2026 – Present
Assistant Professor (CSE Department) Full Time

- Teaching core subjects including Machine Learning, Natural Language Processing (NLP), and Database Management Systems (DBMS).
- Involved in academic research, student mentoring, and curriculum development in AI and data-driven domains.

Birla Institute of Technology, Mesra Sep 2025 – Dec 2025
Junior Research Fellow (Project JRF) Full Time

- Working on the project titled “Development of Machine Learning Tool for Reducing Exposure to ESG Risks.”
- Involved in machine learning model development, data preprocessing, and research-related tasks.

iMerit Technology Services Pvt. Ltd. May 2023 – Dec 2023
Sr. ITES Executive Full Time

- iMerit’s experts provide image annotation services including bounding boxes, polygon annotations, key point annotation, LiDar, semantic segmentation, semantic annotation, and image classification. Each workflow is designed to guarantee quality across every pixel of a given image.

PAPER & PROJECTS

Evaluating Agricultural Drought in the Purulia District, WB | ML, MATLAB, ArcGIS DEC 2023

- Goswami, S., S. Mahato, S. Mahato, Kundu, A., Bairwa, B., Chattoraj, K.K. & Siddiqui, A.R.(2023). Evaluating Agricultural Drought in the Purulia District, West Bengal (India): An Earth Observation Perspective. In: Sarkar, R., Alam, A. & Siddiqui, A.R. (Eds.) Agriculture and Climatic Issues in South Asia.pp. 114–128. CRC Press, Taylor & Francis. <https://doi.org/10.1201/9781003377825-11>

Privacy-Preserving AI-Based Data Handling | AI/ML, Security Accepted 2025

- Privacy Preserving Data Handling Techniques in AI-based Data-Centric Applications
Saha, S., Raychaudhuri, A., Mondal, S. K., Goswami, S., Nazir, R. S.
Accepted as a book chapter in “Models of Intelligent Network Security System and its Societal Applications”, Springer Lecture Notes in Networks and Systems (LNNS), Scopus Indexed.

ML-Based Framework for Medicinal Plant Cultivation | Python, ML& GEECommunicated JUN 2025

- Goswami, S., Roy, S., Saha, S., Sasmal, B. & Biswas, S., 2025. An ML-based framework for predicting cultivation of medicinal plants: A case study. Journal of Applied Research on Medicinal and Aromatic Plants, Science Direct. (Communicated).

INTERNSHIP

NITK STEP

APR 2023 – MAY 2023

Machine Learning

Remote

- **Developed and implemented** machine learning **models** to enhance predictive analytics, improving accuracy by **15%**.
- **Collaborated** with a team to preprocess and analyze **large datasets** using **Python**.
- Conducted **research** on emerging **ML techniques**, contributing to the optimization of **algorithm performance**.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java (Basic), C, SQL, PHP & R .

Software & Developer Tools: VS Code, MySQL, MATLAB, Google Earth Engine, QGIS, ArcGIS, ENVI & ERDAS .

Technologies/Frameworks: HTML, CSS, Bootstrap, Machine Learning, NLP, LLM.

CERTIFICATIONS

Natural Language Processing (NLP) | Udemy

2025

- Learned core NLP concepts including **text preprocessing**, **tokenization**, **stemming**, **lemmatization**, **TF-IDF**, and **basic text classification**.

Large Language Models (LLM) | Udemy

2025

- Studied **transformers**, **BERT**, **GPT models**, prompt engineering, and applications of LLMs in real-world tasks.

AWARDS

- Recognized by the **International Book of Records** for excellence in **Miniature Art**.
- Recipient of the **International Kalaratnam Award** for outstanding contribution in art and creativity.
- Secured **1st Class 2nd position** in M.Sc.
- Participated and presented a project at the **West Bengal State Student-Youth Science Fair 2019**.

MEMBERSHIP

International Association of Engineers (IAENG)

- Member of the **International Association of Engineers (IAENG)**, engaged in global engineering and research community activities.