

ANAL BERA

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Profile

M.Tech in Computer Science & Engineering and current **Assistant Professor** serving as **Team Lead and University Representative** for ERP development and automation. Published researcher in **predictive analytics** with professional expertise in building scalable web applications using **React.js and Laravel**. Proven track record in overseeing technical implementations, requirement analysis, and statutory academic coordination.

WORK EXPERIENCE

Assistant Professor, Department of Computer Science, Sona Devi University, Ghatshila, May 2025 – Present

- Actively contributed to **University ERP development and automation**, working with **Riz Software, Kolkata**, and directly involved in the ERP development process including requirement analysis, testing, and implementation
- Prepared the complete **University statutory proforma** jointly with the academic and administrative team and coordinated its submission to the **UGC**
- Prepared and submitted **AISHE (All India Survey on Higher Education)** data for the University in coordination with concerned departments
- Teaching undergraduate and diploma courses in Computer Science
- Engaged in curriculum development, academic mentoring, and guiding student projects
- Areas of instruction include **Data Structures, DBMS, Cloud Computing, and Compiler Design**

INTERNSHIP EXPERIENCE

Avalgate Software LLP February 2025 – April 2025

- Built responsive web apps using **React.js**
- Worked on **API integration, component-based architecture**, and modern UI libraries
- Collaborated using **GitHub** and agile methods

RESEARCH WORK

Title: *Feature Selection Based Crime Prediction using Machine Learning*

Status: Published

Supervisor: Dr. Soumi Dutta, Associate Professor, Department of Computer Science

Institution: Sister Nivedita University

Description:

Developed an ensemble-based feature selection framework combining **filter, wrapper, and embedded methods** for crime prediction. Achieved up to **93.1% accuracy** and **96.0% AUC** using models such as **XGBoost** and **Random Forest**. Demonstrated improved **model interpretability, feature reduction efficiency, and computational performance**.

EDUCATION

- **M.Tech in Computer Science & Engineering**
Sister Nivedita University, West Bengal
CGPA: 8.11 | Year: 2023–2025
- **B.Tech in Mechanical Engineering**
CGPA: 8.65 | Year: 2020–2023
- **Diploma in Mechanical Engineering**
Percentage: 75% | Year: 2017–2020
- **Secondary Examination**
Percentage: 81%

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, PHP, HTML, CSS.
- **Frameworks:** React.js, Laravel.
- **Tools:** Git, GitHub, REST APIs.
- **Concepts:** Data Structures & Algorithms, Database Management, Machine Learning / AI, Cloud Computing.
- **Soft Skills:** Research analysis, collaborative development, effective communication.

ADDITIONAL INFORMATION

- Strong willingness to contribute to **software development, system design, and automation initiatives.**
- Keen interest in **building scalable applications**, process optimization, and collaborative team-based development.
- Actively enhancing skills in **modern software engineering practices**, including Agile methodologies, version control, and code quality standards.

DECLARATION

★ I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.