

MANISHITA BISWAS

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• Eastern Railway (SDAH Division) [Under SSE/S/S-II]

July 2024 – Present

Summer Trainee – Signal & Telecommunication Dept.

Kolkata, India

- Gaining exposure to industry-grade software such as **Invensys Rail**, used for configuring interlocking tables, route logic, and diagnostics.
- Understanding how software-integrated signaling systems support real-time control, safety validation, and station-level operations.
- Learning communication protocols, emergency control logic, and data logging procedures in control cabins.
- Assisting with documentation and reporting of technical workflows under the guidance of Senior Section Engineers.

EDUCATION

University of Calcutta

B.Tech in Electronics and Communication

Gokhale Memorial Girls' College

B.Sc in Physics (Hons)

Techno India Group Public School

AISSE, AISSCE

PROJECTS

• FitNovaAI - Fitness Microservices Platform

Tools: React (Vite), Spring Boot, MySQL, MongoDB, Gemini API, Tailwind CSS, RabbitMQ, Eureka

- Designed a responsive fitness tracking interface using React and Tailwind CSS.
- Implemented Firebase Authentication for secure login functionality.
- Structured backend architecture using Spring Boot microservices; APIs under modular development.
- Built inter-service communication via Eureka Server and RabbitMQ.
- Currently extending backend with AI-based recommendation logic using Gemini API.

• Regret Mail Scheduler

Tools: Vite (React), Spring Boot

- Built and deployed a full-stack web app allowing users to edit or cancel scheduled emails within 10 minutes of sending.
- Developed robust RESTful APIs using Spring Boot with complete CRUD functionality and exception handling.
- Enhanced UI with Lottie animations for a modern and engaging user experience.

CERTIFICATIONS

AWS Cloud Practitioner Essentials – by Amazon Web Services Training and Certification

[Link](#)

UNLEASHING INNOVATION: THE GENERATIVE AI REVOLUTION – Aspire For Her (in collaboration with AWS SheKnowsAI)

[Link](#)

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript
- **Web:** HTML, CSS, React, Tailwind CSS
- **Backend:** Spring Boot, Firebase
- **Databases:** MySQL, MongoDB
- **Cloud:** AWS
- **DevOps/Tools:** Git, Docker, LaTeX, Power BI, Microsoft Office Suite