MANISHITA BISWAS

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EXPERIENCE

- **Freelance** *Dec 2025 – Present*
  Backend Developer Kolkata, India
  – Designed Spring Boot backend services using layered architecture for master and lookup data management.
  – Developed versioned REST APIs (`/api/v1`) with soft-delete logic and centralized exception handling.
  – Improved performance using Hazelcast caching and PostgreSQL with Spring Data JPA.

- **Eastern Railway (SDAH Division) [Under SSE/S/S-II]** *Jul 2025*
  Summer Trainee – Signal & Telecommunication Dept. Kolkata, India
  – Configured interlocking tables and route logic using **Invensys Rail** software.
  – Assisted in validating safety protocols and documenting real-time control workflows.
  – Analyzed communication protocols and emergency control logic to improve signaling reliability.

EDUCATION

- **University of Calcutta** *Expected 2026*
  B.Tech in Electronics and Communication
- **Gokhale Memorial Girls' College** *2023*
  B.Sc in Physics (Hons)

PROJECTS

- **FitNovaAI – Fitness Microservices Platform** GitHub
  React (Vite), Spring Boot, MySQL, MongoDB, Gemini API, RabbitMQ, Eureka

  – Developed a scalable microservices-based platform with React frontend and Spring Boot backend.
  – Enabled service discovery and inter-service communication using Eureka and RabbitMQ.
  – Integrated Gemini API to deliver AI-based personalized fitness recommendations.

- **Breast Cancer Classification using Logistic Regression** GitHub
  Python, scikit-learn, NumPy, Pandas

  – Built and evaluated a logistic regression model on the Breast Cancer Wisconsin dataset.
  – Achieved **93.2% training accuracy** and **92.98% test accuracy**.

CERTIFICATIONS & ACHIEVEMENTS

- **AWS Cloud Practitioner Essentials** – AWS Link
- **Supervised Machine Learning: Regression and Classification** – DeepLearning.AI Link
- **Flipkart GRiD 7.0 (2025)** – Online Assessment Round Shortlisted

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript
- **Frontend:** HTML, CSS, React.js, Tailwind CSS
- **Backend:** Spring Boot, REST APIs, Microservices, Firebase
- **Databases:** MySQL, MongoDB, PostgreSQL
- **DevOps & Tools:** AWS (Certified), Docker, Git, RabbitMQ, Eureka
- **ML & Analytics:** NumPy, Pandas, scikit-learn, Power BI