

Aritra Bag

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Credly: Credly Profile **Portfolio:** Visit website

About Me

Motivated B.Tech Computer Science student with strong experience in Java, Python, and full-stack web development. Passionate about AI-driven applications, real-time systems, and scalable software solutions. Interested in Cloud technologies, and AI/ML-based system integration.

Education

- **Kalinga Institute of Industrial Technology, Bhubaneswar:**
  - Pursuing B.Tech in CSE (CGPA: 7.81, 2022-2026)
- **Kishorenagar Sachindra Siksha Sadan, Contai:**
  - Intermediate (10+2), W.B. Board (87%, 2020-2022)
  - 10th Standard, W.B. Board (79%, 2019-2020)

Coursework

• Data Structures and Algorithms • Computer Organization and Architecture • Distributed Operating System
• Database Management System • Operating System • Digital System Design • Linear Algebra
• Object Oriented Programming (Java) • Discrete Mathematics • Software Engineering and Project Management
• Automata and Formal Languages • Artificial Intelligence • Machine Learning • Probability and Statistics

Technical Skills

Languages: Java, Python, MySQL, HTML, CSS
Technologies: MERN Stack, AWS Cloud Architecting, Linux System Administration
Frameworks: Next.js, Node.js, Django
Dev Tools: Git, Visual Studio Code, IntelliJ

Projects

- **Weather Application** GitHub Repository
  Developed a real-time weather monitoring application using Next.js and Tailwind CSS, integrating live API data from OpenWeatherMap. Designed for responsive performance and user-friendly UI. Website link
- **TeleHealth Connect 24/7** GitHub Repository
  Built a secure healthcare web platform in Django that implements session-based authentication, password hashing, and user validation. Focused on backend reliability and secure system workflows.
- **LingaLens – Language Converter Web App** GitHub Repository
  Designed an AI-powered multilingual conversion system using Flask and MongoDB Atlas. Integrated LLM models and OCR to process text from typed input, images, and PDFs, enabling intelligent and scalable language transformation.
- **Chatting-Meeting (Google Meet Clone)** GitHub Repository
  Developed a real-time video conferencing and chat application supporting secure authentication, live audio-video streaming, and instant messaging. Built for collaboration-focused environments such as virtual classes and meetings. Website link

Experience

- **Python Full Stack Virtual Internship (Virtual):** October - December 2024 Certificate
  EduSkills, All India Council for Technical Education (AICTE)
  - Gained practical experience in Web application development, including Frontend and Backend design, Python programming, and working with Git and GitHub.

Certifications

- Presented research paper at **ICCRDA-2025** on Green Computing and Sustainable E-Waste Management. Certificate
- Completed **Data Structures & Algorithms** – KIIT Kareer School. Certificate
- Certified in **AWS Cloud Architecting**. Certificate
- Certified in **Linux System Administration** – Red Hat. Certificate

Languages and Soft Skills

- **Languages:** Working level Proficiency in English, Bengali, and Hindi.
- **Soft Skills:** Critical Thinking, Time Management, Communication, Leadership, Multitasking, Teamwork.