



JAYADITYA SAHU

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Education

Indian Institute of Technology, Bhubaneswar

2023 – 2027

B.Tech in Computer Science & Engineering

CGPA: 8.9/10 (till 4th Semester)

- CBSE 12th: 96% — CBSE 10th: 97.2%
- JEE Advanced AIR 1686 — JEE Main AIR under 4000

Internship Experience

Asian Institute of Technology (AIT), Bangkok

May 2025 – July 2025

Research Intern

- Led development of a VR-based educational game for children with developmental disorders.
- Designed and implemented an accessible GUI interface for user interaction.
- This project was a part of a research publication based on "AR/VR-Based Smart Education System for Developmental Disorder Students" being authored by my guide Dr.Branesh M. Pillai, and hence became a contributor to this research paper (**LOR available**).

Fox Trading

Mar 2024 – Apr 2024

Machine Learning Intern

- Built diabetes prediction, sales forecasting, and bike-sharing demand models using Python.
- Optimized accuracy through feature engineering and model tuning. (**Internship Certificate available**).

FincruX Technologies

Jan 2025 – Mar 2025

ML Co-op Intern

- Developed ML pipelines (Regression, K-Means, Decision Trees, Random Forests).
- Achieved evaluation scores of 80/100 and 90/100 by industry judges. (**Internship Certificate available**).

AlgoUniversity (Y-Combinator-backed)

May 2025 – Present

Software Development Co-op Intern

- Developed a full-stack MERN-based Online Judge platform supporting 100+ concurrent users.
- Implemented real-time code execution with Docker containers and AWS deployment. (**Source code**).

Projects & Competitions

CPU Scheduler

2025

Self project

- A console based simulation of CPU scheduling algorithms such as First Come First Serve(Non-preemptive), Shortest Job First(Non-preemptive), Shortest remaining time(Preemptive),Round Robin(Preemptive) ,priority scheduling etc.
- Shows the start time, end time through a console based simulation with user input processes.(**Source code**)

Sales & Demand Forecasting Models

2024

Internship Projects at Fox Trading

- Built forecasting models for dynamic market prediction.
- Applied regression algorithms and visualized results using matplotlib.

A Shareable Link Generating App For Files

2025

Personal Project

- Architected a full-stack File Sharing App with a Vite/React frontend and Express/MongoDB backend, enabling secure uploads/downloads via auto-generated links. It uses Multer for streaming, tracks downloads in real time, and exposes clean REST endpoints. CORS-ready and environment-driven, it's a lightweight microservice you can plug into any large-scale ecosystem. (**Source code**)
- It was created with an aim to make peer-to-peer file sharing more faster and simple.

Superstore Bill System

2025

Personal project

- In order to put my OOPS and file handling skills to test I engineered a simple yet robust ****console-based supermarket billing system**** developed in ****C++****, designed to manage item inventories, compute totals, apply taxes, and generate customer bills efficiently.
- Key highlights: - Implements structured data handling for products invoices. - Demonstrates clear application of file I/O for persistent storage. - Builds foundational algorithms for bill calculation, tax addition, and stock updates. (**Source code**)

Technical Skills

- **Languages:** Python, C++, JavaScript, C
- **Libraries/Tools:** scikit-learn, pandas, matplotlib, Docker, Git
- **Frontend:** React.js, HTML, CSS, Bootstrap
- **Backend:** Node.js, Express.js
- **Databases:** mySQL, PostgreSQL, MongoDB
- **Cloud:** AWS, Vercel

Honors & Recognition

- Became **National Semi-finalist at Flipkart Grid 7.0** in software development track. (**Certificate of Achievement**)
- Selected for Graphs Camp by Codeforces Master – Top 80 out of 80,000 applicants.
- Secured **19th position at Enigma: Machine Learning Competition**, conducted by CSE Dept. IIT BHU (**Feb 2025**). (Snapshot of Final leaderboard)
- Winner – AstroVenture Case Study (It involved developing strategy to detect spots of potential mining on celestial objects (like planets) using satellite images and other datasets), IIT Bhubaneswar.
- 2nd Runner-up – BotBrains Battle, RISC IIT Bhubaneswar. (**Certificate of Achievement**)
- Received **certificate of appreciation from World Bank** for successfully submitting an essay in online essay competition- 2024 on Technology used in Public Procurement. (**Certificate of Achievement**)
- Participated in a lot of **Model United Nations** and represented my institute, and received the recognition of "**Best Speaker**" to "**Honourable mention**" in almost each one of them there by gaining a good fundamental knowledge on various geopolitical issues.

Positions of Responsibility

- Member – Neuromancers (Programming Society), IIT Bhubaneswar
- Member – WebND (Web Development Society), IIT Bhubaneswar
- Member – RISC (Robotics Society), IIT Bhubaneswar
- Member – Panacea (English Literary Society), IIT Bhubaneswar