Jainil Panigrahi

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B.Tech - Energy Science and Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.55 (Current)	2021–2025 (Expected)
Senior Secondary	CBSE Board	85.0%	2023
Secondary	CBSE Board	94%	2021

PROJECTS

• **Web 3.0 Blockchain Application** *May 2024 – July 2024*
Decentralized App Development
  – Built a decentralized app with **MetaMask** wallet integration and **3+ Solidity** smart contracts to enable secure ETH transfers.
  – Designed a dashboard to track 100+ transactions with GIF-based visualization using the **Giphy API**.
  – Optimized **smart contract** calls, reducing transaction latency by 40% and improving user engagement.

• **Airhawks** *July – Aug. 2024*
Coding Club Project
  – Engineered a full-stack flight booking app handling **500+ test bookings** with **JWT authentication** and **SHA-256 password hashing**.
  – Integrated **Razorpay payment gateway**, enabling **100% validated payments** and reducing transaction failures to <2%.
  – Built an **admin portal** to manage **50+ flights** and user profiles with a sleek **React (Vite) + Chakra UI** interface and real-time notifications.

• **Dynamic Pricing System for Smart Parking (SA-Capstone)** *May 2025 – July 2025*
Summer Analytics Capstone Project
  – Developed a multi-model **dynamic pricing system** combining static, **real-time streaming**, and competition-aware strategies to optimize parking rates.
  – Implemented **Model 3** with **±5% pricing adjustments** driven by occupancy thresholds and geospatial competition modeling using **geopy**.
  – Built a real-time visualization dashboard using **Bokeh** and **Pathway**, enabling data-driven pricing decisions.

TECHNICAL SKILLS

- **Programming:** Python, C/C++, JavaScript, TypeScript
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Web Development:** React, Tailwind CSS, Node.js, Express.js
- **Tools/Frameworks:** Keras, TensorFlow, PyTorch, OpenCV
- **Blockchain:** Solidity, Ethereum, IPFS, Truffle Suite, ethers.js, web3.js
- **Operating Systems:** Windows, Linux, MacOS
- **Misc:** GitHub, Docker, Alchemy, The Graph

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Basic Calculus, Discrete Maths, Probability & Random Processes
- **Blockchain:** Cyfrin Updraft, Blockbase, Smart Contracts
- **Other:** Time Series Analysis, Summer Analytics, Product Matters, Agentic AI

ACHIEVEMENTS AND EXTRACURRICULARS

• **Third Position**, Blockchain Challenge, Inter-Hostel Technical Competition, IIT Guwahati *2024*
• **Second Position**, Robotics Challenge, Inter-Hostel Technical Competition, IIT Guwahati *2024*
• **Second Position**, Mime Competition, Inter-Hostel Cultural Competition, IIT Guwahati *2024*
• **MnAnalyse**, Secured 12th rank in Merger and Acquisition competition among 2000 participants *2025*
• **JEE Advanced**, Secured **AIR 5462** among 0.15 million candidates *2021*
• **JEE Mains**, Secured **AIR 7422** among 2.2 million candidates *2021*