

SHUBHAM DAS

Adm. No. 22JE0936 📞 +91 8250846979

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Technical Skills

Languages: Python, C++, JavaScript
Web Development: HTML, CSS, React.js, REST APIs, JWT, Socket.IO
Frontend: React.js, Redux Toolkit, Tailwind CSS, Bootstrap
Backend: Firebase (Auth & DB) and Appwrite, FastAPI, MongoDB, Mongoose,
Database: MongoDB, Firebase Realtime Database
Concepts: Data Structures and Algorithms, Object-Oriented Programming, Operating System
Tools: Git; GitHub; VS Code; Docker; Postman; Vercel; Render; AWS (Basics); DevOps (CI/CD, Deployment)

Experience

Naresh Vashisht Centre for Tinkering and Innovation (NVCTI)

May 2025 – Jul 2025

AI/ML Intern

Dhanbad, India

- Developed and deployed an intelligent chatbot leveraging **NLP models, RAG pipelines, and agentic workflows**
- Integrated the chatbot with the student portal, enhancing academic query resolution and reducing manual workload by 40%.

Projects

NeuroCart – Product Decision Assistant | [React.js](#), [HTML](#), [CSS](#), [EDA](#), [FastAPI](#), [LLM](#) [Live] [Frontend] [Backend]

- Conducted comprehensive EDA on user reviews to extract trends, sentiment distribution, and actionable insights.
- Built a FastAPI backend to preprocess and serve data for real-time LLM-driven sentiment analysis and decision support. (June–July 2025)

IIT ISM ChatBot Assistant | [React.js](#), [Appwrite](#), [RAG](#), [LLM](#), [GPT-4o-mini](#), [Pinecone](#), [NLTK](#) [Frontend] [Backend]

- Developed a smart chatbot for IIT ISM students integrating backend APIs, vector-based search, and GPT-4o-mini for accurate, context-aware responses.
- Implemented a Retrieval-Augmented Generation (RAG) pipeline using Pinecone and embeddings, with text preprocessing, tokenization, and entity recognition via NLTK. (April–July 2025)

BHARATLINKER | [MERN](#), [Redux Toolkit](#), [JWT](#), [MongoDB](#) [Live] [Frontend] [Backend]

- Built a full-stack B2B platform for businesses to register, connect, and collaborate.
- Implemented role-based JWT authentication and dashboards for Admin, Buyer, and Seller.
- Managed global state with Redux Toolkit and optimized APIs with Redux Thunk. (June–Dec 2024)

Projects – Core Subjects

Regression Model from Scratch | [Machine Learning](#), [Linear Algebra](#), [Python](#) (6th Sem)

- Built a linear regression model from scratch using NumPy with gradient descent and normal equation.
- Tested on real datasets and benchmarked performance against scikit-learn implementations.

Hostel Accommodation System | [OOP](#), [File Handling](#), [STL](#), [C++](#) (5th Sem)

- Developed a console-based hostel management system with bed reservation using OOP and STL.
- Implemented file handling for persistent storage and real-time updates.

Mutual Exclusion Simulation | [Operating Systems](#), [Mutex](#), [Threads](#), [C++](#) (4th Sem)

- Simulated Peterson's algorithm and mutex locks to ensure process synchronization.
- Visualized critical section handling and race condition prevention in multi-threaded environment.

Education

Indian Institute Of Technology Dhanbad

Expected May 2026

[Bachelor of Technology in Engineering Physics](#) (GPA: 7.08 / 10)

Dhanbad, Jharkhand

- Relevant Coursework:** Data Structures and Algorithms (C++), Probability and Statistics (Python), Linear Algebra, Machine Learning Fundamentals, and Introduction to Artificial Intelligence – building a strong foundation in analytical thinking, data handling, and intelligent system design. **Computational Physics, Quantum Computing.**

Saraswati Devi Public School

May 2022

Class 12 (GPA: 9.1/10)

Kandi, West Bengal

Achievements

- Solved **600+** DSA problems across LeetCode, GeeksforGeeks, and HackerRank, strengthening problem-solving and real-time coding efficiency.
- Achieved top **0.75% (Rank 1500)** **LeetCode Weekly Contest 452**, demonstrating algorithmic speed and accuracy under pressure.
- Built **BharatLinker** in a 24-hour sprint at **Code-ISM Hackathon 2024**, leading a 3-member team to develop a scalable full-stack product and secured **Runner-Up** position.

Social Engagements

- Contributed to **CYBER LABS** at IIT Dhanbad by collaborating on software development projects and organizing technical events.
- Led coding workshops for underprivileged children at **KARTAVYA**, an NGO run by IIT Dhanbad students.
- Active chess player, sharpening strategic thinking and problem-solving abilities.