Tarush Banke

B.Tech Computer Science and Engineering (4th Semester)

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Summary

Motivated **Computer Science undergraduate** with a strong grasp of **C++** and **core data structures**. Actively engaged in **competitive programming** and **system-oriented problem solving**. Seeking **software development internships** that provide exposure to **real-world systems**, **scalable code**, and **performance-focused design**.

Education

Motilal Nehru National Institute of Technology, Allahabad   **2024 − 2028**
B.Tech in Computer Science and Engineering
Relevant Coursework: Data Structures, Algorithms, Programming in C/C++, Object-Oriented Programming

Technical Skills

- **Languages:** C++, C
- **Data Structures:** Arrays, Strings, Linked Lists, Stacks, Queues, Trees, Recursion
- **Databases:** SQL (MySQL, PostgreSQL – learning)
- **Web Technologies:** HTML, CSS, JavaScript (learning)
- **Tools:** Git, GitHub, VS Code
- **CS Fundamentals:** Object-Oriented Programming, Operating Systems (learning)

Projects

▶ **NDID – Near Duplicate Image Detection**

- Designed a multi-stage image similarity pipeline for near-duplicate detection.
- Used perceptual hashing (pHash, wHash) to reduce search space.
- Integrated DINOv2, CLIP, and FAISS for deep-feature similarity search.

▶ **Krishi Sahayak – AI-powered Farmer Assistance Chatbot**

- Built a simple chatbot UI to assist farmers with common agricultural queries.
- Connected the UI to the Gemini API for context-aware responses.
- Focused on usability and accessibility for non-technical users.

Achievements & Activities

- Solved **287+ problems** on LeetCode (Rating: **1604**)
- CodeChef rating: **1478**
- **Top 20** out of **100+ teams** in internal hackathon for **SIH 2025**
- Regular participant in coding contests and technical events

Interests

Problem solving, competitive programming, software development, system-level concepts.