VANSH DOKANIA

Roll No: 2024600 | **Email:** vansh24600@iiitd.ac.in

GitHub: @vanshdokania | **LinkedIn:** @Vansh Dokania

DOB: 28 May 2006 | **Website:** ML Project website(currently working) | **Leetcode(200+ Qs solved):** Leetcode

EDUCATION

Indraprastha Institute of Information Technology, Delhi — **CGPA:** 7.5*
B.Tech. ECE — (Till 2nd Semester)
2024 - 2025 (Present)

Bharti Vidya Niketan, New Delhi — **Percentage:** 93.8%
CBSE Standard 12, PCM
2022 - 2024

SKILLS

Expertise Area	Data Structures and Algorithms, Machine Learning and AI, Backend Development
Programming Languages	C++ - 10k lines Python - 5k lines Java, JavaScript - 5k lines
Tools and Technologies	**Machine Learning:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn **Backend:** Node.js, Express.js, MongoDB, REST API **Others:** Git
Technical Electives	Data Structures and Algorithms, Object Oriented Programming, Computer Organization, Discrete Math, Operating Systems, DBMS

PROJECTS

VanshGPT – AI Chatbot
July 2025 | Individual Project
Tech Stack: Next.js, OpenRouter API, MongoDB, Tailwind CSS
- Built a full-stack AI chatbot web app that mimics ChatGPT UI/UX with features like dynamic chat saving, custom sidebar, and OpenRouter integration for model switching.
- Engineered prompt templates and context-aware response mechanisms to personalize chatbot interactions, aligning them with user-specific language, preferences, and personality.

Interactive Sorting Visualizer
Individual Project
Tech Stack: Python, Pygame, Algorithm Design
- Built a desktop-based sorting visualizer using Python and Pygame, featuring a clean UI with real-time animations for six algorithms: Bubble, Selection, Insertion, Merge, Quick, and Heap Sort.
- Implemented detailed visual feedback for comparisons, swaps, and pivot selection, along with performance statistics like passes, comparisons, swaps, execution time, and time complexity for educational clarity.

Computer Organization Simulator
Jan 2025 – Mar 2025 | Academic Project (IIIT-Delhi)
Tech Stack: Python
- Developed a simulator to demonstrate key concepts of computer organization, including instruction cycle, memory access, and ALU operations.
- Simulated basic instruction execution using custom-defined architecture.
- Implemented control unit logic, registers, and instruction decoding.
- Gained a deeper understanding of how low-level hardware components interact.

AWARDS AND ACHIEVEMENTS

- **93.8%** in CBSE Class 12 Board Examinations
- Completed Machine Learning by Andrew Ng – DeepLearning.AI course on Coursera
- Participated in **college coding competitions**
- Olympiad Winner – National Level

INTERESTS AND HOBBIES

- **Competitive Programming** - Regular participation in coding contests
- **Machine Learning** – Exploring algorithms, real-world applications, and hands-on model development using Python and popular ML libraries
- **Investing** – Regularly tracking and investing in the stock market with a focus on long-term growth and financial literacy
- **Gaming** - Strategy games and problem-solving games

Declaration: The above information is correct to the best of my knowledge.
VANSH DOKANIA
Date: July 2025