

Sarthak Thapliyal

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EDUCATION

Graphic Era Hill University

Dehradun, Uttarakhand

Bachelor of Technology in Computer Science & Engineering (Specialization in AI/ML)

Aug. 2023 – Present

- Relevant Coursework: Object-Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning

Army Public School

Dehradun, Uttarakhand

Class XII - 71.6%

2022

Army Public School

Dehradun, Uttarakhand

Class X - 83.2%

2020

TECHNICAL SKILLS

Programming Languages: Python, C++, Java

Frameworks & Libraries: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV, NLTK

Databases: MongoDB, MySQL

Tools & Platforms: Git, OpenAI API, Matplotlib

PROJECTS

AI Chess Bot | *Python, Chess Engine, Minimax Algorithm*

2025

- Developed an AI-powered chess engine in Python leveraging the python-chess library for real-time interactive gameplay.
- Implemented minimax algorithm with heuristic evaluation functions for intelligent move selection.
- Designed state management logic to track gameplay and ensure optimal performance.

Phishing Website & Email Detector | *Python, NLP, Machine Learning*

2025

- Built a machine learning-based phishing detection system in Python to identify malicious URLs and fraudulent emails.
- Implemented URL feature extraction, email header parsing, and NLP-based content classification.
- Achieved improved detection accuracy by applying supervised learning models and feature engineering techniques.

Docker Lite | *C, Containers, OS Concepts*

2025

- Implemented a minimal containerization system replicating core Docker functionalities such as process isolation and filesystem layering.
- Built namespace and cgroup based isolation from scratch in C to understand low-level container mechanics.
- Developed a lightweight image format and CLI tool enabling container build and run operations.

CERTIFICATIONS & CODING PROFILES

Mastering Data Structures & Algorithms using C and C++

Online

Instructor: Abdul Bari (60 hours)

LeetCode: Solved 200+ problems in C++ covering data structures and algorithms.

Competitive Programming: Active participant in weekly LeetCode contests and CodeForces Div-I/II rounds.