GAUTAM SINGH JYALA

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in LinkedIn

GitHub

</> LeetCode

☞ GFG

PUBLICATION

Gautam Singh Jyala, Rahul Chauhan, Ruchira Rawat, (2024), "An Imitation of Humanoid Robot: A Qualitative Analysis" in Challenges in Information, Communication, and Computing Technology, 1st Edition, CRC Press.

Link

EDUCATION

Graphic Era Hill University B.Tech in Computer Science - 8.15 CGPA

2022 - 2026

PROJECTS

Banana Life Span Prediction

GitHub

- Built a MobileNetV2-based deep learning model with 90%+ accuracy on banana ripeness prediction across 500+ labeled images.
- Deployed model with a custom function to map quality score to eatable lifespan in days for smart kitchen use cases.
- \bullet Reduced image prediction time to <1s using TensorFlow optimization techniques.
- Enabled real-world integration by packaging model for edge deployment in IoT-enabled storage systems.

Hospital Management System

GitHub

- Developed a full-stack web app for managing **50+ daily hospital operations**, including patient CRUD and doctor records.
- Designed responsive UI with HTML/CSS/JS; improved patient data access by 40% using real-time search/filter features.
- Implemented security measures for encrypted form data and validated access control logic.
- Modularized front-end/backend logic, improving system scalability and maintainability.

A Lightweight Bytecode Interpreter

GitHub

- Engineered a bytecode interpreter in C++ supporting arithmetic and print instructions with <1MB memory usage.
- Implemented lexer, parser, and bytecode generator for translating custom syntax into stack-executable code.
- Optimized execution flow to achieve **2x speedup** over naïve interpreters through efficient memory and stack usage.
- Added error handling for malformed inputs and runtime faults, improving interpreter reliability and usability.

TECHNICAL SKILLS

- Languages: C, C++, Java, Python, JavaScript, HTML, CSS, SQL
- Libraries: Numpy, Pandas, Matplolib, SKlearn, Seaborn
- Database: MySQL
- Coursework: OOPS, DBMS, Data Structures & Algorithms

ACHIEVEMENTS

- Played Nationals in Volleyball (2021).
- Solved **350+ DSA problems** on Leetcode and GFG.
- Awarded Leetcode Annual Badge 2023 for being in top 0.4% globally.
- Earned 100 and 200 Days Leetcode Streak Badges in 2024 and 2025.