GAUTAM SINGH JYALA

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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.
- 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.

Personal Portfolio Website   Live

- Built a fully responsive portfolio website using **ReactJS** and **styled-components**, showcasing **8+ projects**, skills, and professional links with a custom dark + peach theme.
- Integrated GitHub API to dynamically display **10+ repositories**, project activity, and a **real-time progress tracker** with **animated circular indicators**.
- Achieved **100/100** Lighthouse scores in **Accessibility, SEO, Best Practices**, and **Performance**; ATS-friendliness estimated at **90%+** due to structured metadata and clean HTML.
- Optimized for all devices with smooth animations (via `framer-motion`), scroll navigation, and mobile-first design; deployed on **GitHub Pages** with **<200ms load time**.

Email/SMS Spam Classifier Web App   Live

- Built a spam detector using a **Stacked Ensemble Model** (SVM, NB, ExtraTrees, RF) with **96.8% accuracy** and **96.5% precision**.
- Processed **5,500+ messages** with tokenization, stemming, stopword removal, and TF-IDF (3000 features).
- Achieved a **2x precision gain** using **5-fold stacking** over baseline models.
- Deployed on **Streamlit Cloud** with a **lightweight <2MB model** for real-time predictions.

TECHNICAL SKILLS

- **Languages:** C, C++, Java, Python, JavaScript, PHP, HTML, CSS, SQL
- **Libraries:** Numpy, Pandas, Matplolib, SKlearn, Seaborn , React
- **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.