

## Education

**Bachelor Of Technology in Computer Science:** Graphic Era Hill University - (CGPA - 8.37) (2022–2026)

**Intermediate:** 76.8% (2021–2022)

**High School:** 84.8% (2019–2020)

## Technical Skills

**Languages:** C, C++, Python, Go, JavaScript, Flutter, SQL

**Frameworks & Libraries:** React, Next.js, Express.js, Node.js, OpenCV, TensorFlow

**Databases:** MongoDB, PostgreSQL, MySQL

**DevOps & Tools:** Docker, Git, GitHub, CI/CD

**Coursework:** OOP, Databases, DSA, OS, CN, ML

## Projects

### Real-Time Object Detection System | *Python, TensorFlow, OpenCV*

[Link](#)

- Engineered a refined deep learning pipeline utilizing TensorFlow and OpenCV for live object recognition, sustaining 95% precision on real-time video feeds and enhancing overall system reliability by 15%.
- Accelerated the inference throughput of a deep-learning model using GPU parallelization and quantization, achieving a sustained sub-20ms latency per frame on mid-range hardware and optimized deployment costs.
- Designed and deployed RESTful APIs to enable secure data exchange between IoT devices and cloud infrastructure, lowering latency by 30% and streamlining real-time data processing.

### Intelligent File Management System | *Python, Operating System, File Handling*

[Link](#)

- Developed an automated file management system using Python scripting, reducing manual file sorting efforts by 70% and improving file retrieval efficiency by 40%.
- Optimised data governance by introducing rule-based classification and validation mechanisms, decreasing file misclassification errors by 15% and strengthening data integrity across departments.
- Integrated adaptive caching and predictive classification models, achieving 98% file-type accuracy while minimizing I/O latency by 35%.

### Smart Fitness App | *Flutter, Node.js, PostgreSQL*

[Link](#)

- Architected and maintained a real-time mobile fitness platform with AI-driven posture tracking (95% pose accuracy) and activity monitoring across background processes.
- Improved user retention by 35% via a recommendation engine leveraging personalized data analytics and secure backend integration.
- Implemented OS-level scheduling to cut missed notifications by 40% and improving server performance through PostgreSQL caching.

## Certifications and Simulations

1. Generative AI and ChatGPT – GeekforGeeks (Ongoing)

2. Python for Data Science – IIT Madras (2024)

3. Fundamentals of Python – IIT Madras (2023)

## Leadership and Technical Achievements

- Core Member, WeCode Club — Led event logistics and technical problem design for a university hackathon with 30+ teams, promoting collaboration and innovation under time-constraints.
- Ranked consistently in the Top 50 out of 600+ CSE students, reflecting sustained academic excellence and technical mastery.
- Authoring an AI-based research paper on Real-Time Food Detection leveraging Computer Vision for nutritional insight and adaptive recipe generation.