

Tati Sathvik

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Professional Summary

Highly motivated and forward-thinking Computer Science engineering student (Batch 2027) with strong foundations in C, Python, OS, and computer architecture. Passionate about AI/ML, systems programming aligned with AMD's mission of accelerating next-generation computing experiences. Eager to contribute to challenging software engineering and research environments.

Technical Skills

- **Programming Languages:** Java, C, Python, Javascript
- **Scripting:** Python, Bash
- **DSA:** Arrays, Linked Lists, Strings, Hash Maps/Sets, Custom Sorting, Prefix/Suffix & Frequency Arrays, Stacks, Queues, Dynamic Programming, Advanced Sorting/Searching, Recursion, Mathematical Algorithms, Pre-computation Techniques
- **Databases:** MySQL, MongoDB, PostgreSQL
- **AI/ML:** NumPy, Pandas, OpenCV
- **Graphics / Compute (Basic Exposure):** OpenCL concepts, GPU pipeline fundamentals
- **Web & Platform:** Node.js, React.js, Docker, REST API's
- **Tools:** Git, GitHub, Postman, Linux
- **Soft Skills:** Problem-solving, Teamwork, Clear technical communication, Time management, Adaptability, Leadership, Cross-functional Collaboration, Debugging mindset, Analytical reasoning, Execution focus
- **Areas of Interest:** Artificial Intelligence, Cybersecurity, Algorithms, Computer Architecture, GPU/CPU Pipeline Fundamentals, High-Performance Computing, Parallel Processing, Systems Programming

Education

KL UNIVERSITY | Hyderabad, Telangana | Expected Graduation: June 2027

- Bachelor of Technology in Computer Science Engineering (GPA: 9.62/10)

Projects

Spam Email Classifier - Python, ML - [Repo](#)

Naïve Bayes spam detector with a simple GUI.

EduStealth & Hidden Chat - MERN, WebSockets - [Repo](#)

Encrypted hidden chat system with stealth access.

AI Non-Violence Model - Python, OpenCV- (In Progress)

Detects and blurs violent content in real time.

Blue-Green Deployment - DevOps, Docker - [Repo](#)

Zero-downtime deployment using Blue-Green release strategy.

Steganography App - Python, Image Processing - [Repo](#)

LSB-based data hiding and extraction in images.

OpenCV Mini Projects - Python, CV

Basic CV utilities: edge detection, color masking, object tracking.

Certifications

- **BCG GenAI Job Simulation** (Forge, Sep 2024)–Built an AI-powered financial chatbot in Python.
- **Operating Systems** (NPTEL)–Completed course covering process, memory, and file system management.