SANDHEEP G S

B.Tech Student in Computer Science and Engineering

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Profile Summary

I am passionate about exploring how technology can be used to solve real-world problems. I focus on creating solutions that are both practical and impactful. I believe in learning through experimentation and continuous improvement. I value collaboration, clear thinking, and purpose-driven work, and I am motivated by contributing to technology that genuinely helps people.

Experience

UI/UX Intern
Yantra AI

- Contributed to enhancing user interface designs and improving overall user experience across multiple AI-driven product modules.
- Assisted in creating prototypes and wireframes, refining design workflows to support intuitive and user-friendly product development.

Education

Bachelor of Technology in Computer Science and Engineering — 2023 – Present
Amrita Vishwa Vidyapeetham, Coimbatore — *CGPA: 6.88*

Senior Secondary Education (Class XII) — 2022 – 2023
Premier Vidyaa Vikash Matriculation Higher Secondary School, Coimbatore — *Percentage: 86.50*

Secondary School Education (SSC) — 2019 – 2021
Premier Vidyaa Vikash Matriculation Higher Secondary School, Coimbatore

Skills

Programming: C, C++, Java, HTML, CSS, JavaScript, Python

Databases: MySQL, MongoDB

Tools: Arduino, Visual Studio Code, MATLAB

Domains: UI/UX, Web Development, Machine Learning, Full Stack Development

Projects

Operating System Memory Management – Memory Leak Detection and Prevention

- Designed and implemented a FreeRTOS-based memory tracking system that monitors dynamic memory allocation and deallocation in real time.
- Used mutex-protected linked lists to log allocated blocks, track total memory usage, and detect memory leaks, improving system reliability and resource management in embedded operating systems.

Fake News Detection using the Winnowing Algorithm

- Developed a C++-based fake news and plagiarism detection system that preprocesses text, generates k-grams, and applies the Winnowing algorithm to create document fingerprints.
- Compared fingerprint sets using similarity scoring to detect duplicated or highly similar textile-domain articles efficiently.

Paper Publications

- Disease Identification Using Deep Learning-Based Explainable AI Approaches for Tomato Leaf Disease Progression — ICOIICS 2025.

Certifications

- Java Programming Certification – Udemy

- Generative AI – A Deep Dive, Anokha 2024, Amrita Vishwa Vidyapeetham
- macOS Forensics, Anokha 2024, Amrita Vishwa Vidyapeetham
- Digital Marketing – January Batch 2024, Corizo

Extra-Curricular Activities

- Head of Media Team, Elite Club – Amrita Vishwa Vidyapeetham
- Active Member, Rotaract Club of Coimbatore Central
- Regular marathon runner with participation in long-distance running events