

SAI CHARAN KODHANDIGARI

☎ +91 7330736737

✉ ksaicharan13579@gmail.com

📍 Hyderabad, India

As an ambitious and continuously learning software engineer, I am eager to start my career in the software industry. With a strong foundation in software development, gained through coursework and practical projects, I aim to apply my skills to create innovative solutions. My goal is to make valuable contributions while continually improving my expertise. I am committed to keeping up with the latest industry trends.

EDUCATION

Bachelors in Computer Science & Engineering - AIML <ul style="list-style-type: none">Uttaranchal UniversityGPA - 7.72	2021 - 2025
HSC BIEAP in MPC <ul style="list-style-type: none">Nucleus Junior CollegePercentage - 85.9	2019 - 2021
SSC BSEAP <ul style="list-style-type: none">S.M.R. English Medium SchoolGPA - 9.2	2018 - 2019

TECHNICAL PROJECTS

Interactive Sorting Visualizer

- Developed an interactive tool demonstrating various sorting algorithms with real-time animations.
- Added sorting speed adjustment and pause/resume controls, enhancing comprehension and engagement.
- Strengthened understanding of algorithm efficiency and complexity through hands-on visualization.

End-to-End Transaction Database Management System

- Designed a relational database schema managing 100,000+ retail transactions, ensuring data integrity and optimized query performance.
- Created a Streamlit-based interface for interactive querying and revenue trend visualization, enabling seamless analysis of monthly and product-level insights.

Complex-Valued Hopfield Associative Memories

- Built a Python-based Hopfield Network using complex-valued representations to enhance associative memory modeling.
- Achieved 10% higher memory capacity and 15% better recall reliability compared to binary models.
- Investigated potential applications in fraud detection and anomaly analysis.

Caesar Ciphertext (Python)

- Developed an interactive Python tool to encrypt/decrypt messages with the Caesar cipher, featuring customizable shift keys.
- Reinforced cryptography principles, modular arithmetic, and string manipulation through hands-on implementation.

SOFT SKILLS

- Observation
- Problem Solving
- Multi-tasking
- Communication
- Decision Making

🌐 <https://sai-charan-portfolio-68.vercel.app/>

🌐 <https://www.linkedin.com/in/sai-charan-kodhandi/>

🌐 <https://github.com/saicharan62>

TECHNICAL SKILLS

Programming languages:

Python | Java | SQL | C++ | JavaScript (Basic)

Web technologies:

HTML5 | CSS3 | React.js | Node.js | Streamlit

Databases:

PostgreSQL | MySQL

Version Control:

Git | GitHub

Data Science & Machine Learning:

NumPy | Pandas | Matplotlib | Neural Networks

Relevant Coursework:

OOP | OS | DBMS | Data Structures

CERTIFICATIONS

Full Stack Web Development

Udemy.com

LANGUAGES KNOWN

- Telugu** (Native)
- English** (Fluent)
- Hindi** (Fluent)