

SISTA GOPALA KRISHNA

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EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY ANDHRA PRADESH

2021 - 2025

B.Tech in Computer science and Engineering - **CGPA - 7.81**

ADITYA JUNIOR COLLEGE

2019 - 2021

Intermideate in MPC - **Percentage - 97.6%**

EXPERIENCE

DEPARTMENT OF COMPUTER SCIENCE NIT WARANGAL

JUN 2023 - JUL 2023

Research Intern

Warangal, India (On-site)

- Presented **Genetic Algorithm for Secure Domination Problem** paper, accepted at **ICAMM2023**.
- Proposed a genetic algorithm-based solution for solving a well-known variant of domination problem called secure domination.
- Designed meta-heuristic algorithm for solving secure domination.

PROJECTS

BLOGGING WEBSITE | ReactJS, JavaScript, MongoDB, NodeJS, ExpressJS.

- Developed a fully functional, responsive MERN stack blog with admin privileges by integrating ReactJS for the front-end, MongoDB for data management, and Express/Node.js for backend services, ensuring smooth CRUD operations and robust authentication.
- Implemented secure user authentication and authorization using JSON Web Tokens (JWT) and Google OAuth, leveraging Redux Toolkit for efficient state management, and enhancing security with hashed passwords and custom error handling.
- Optimized user experience with advanced features like dark mode, image uploads, dynamic search with filtering, and seamless mobile responsiveness, all deployed via the Render platform.

PHISHING URL DETECTION | Python, HTML, CSS, Pandas, Machine Learning.

- Developed a machine learning model using Pandas, NumPy, and Random Forest/Decision Tree classifiers.
- Detected fraudulent website links by analyzing 15 features of URL such as domain name, IP address.
- achieved accuracy score of the model by 81%.

GENETIC AND PSO FOR SECURE DOMINATION NUMBER | Algorithms, Python, Graphs.

- Designed a heuristics for secure domination of graphs.
- Optimized results using Genetic and Particle Swarm Optimization algorithms for more than 200 graphs.
- Achieved results lower than upper bound on random graphs generated using Erdos-Renyi and Harwell Boeing data sets over $5 * 10^4$ and 10^5 iterations.

TECHNICAL SKILLS

Languages	Adept: Java, Familiar: Python, C, C++, JavaScript, SQL
Coursework	DSA, AI, NLP, OOPS, DBMS, Operating Systems, Web development
Technologies/Frameworks	MongoDB, MySQL, Linux, GitHub, ReactJS, NodeJS, ExpressJS

ACHIEVEMENTS

- Ranked 1st in school in Class X examination with a 10 GPA.
- Achieved 1st place in the AMTI mathematics examination at the regional level.
- Ranked 1st in school and in the top 1 percent nationwide in JEE MAINS examination 2021.
- Top 1 percent in the AP EAPCET examination 2021.

EXTRA-CURRICULAR

GRAPHIC CAFE NIT AP

SEP 2023 - JUL 2024

Executive Member (Designer)

CSE ASSOCIATION NIT AP

AUG 2022 - SEP 2023

Volunteer