

SISTA GOPALA KRISHNA

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EDUCATION

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| National Institute of Technology Andhra Pradesh <i>B.Tech in Computer Science and Engineering - CGPA - 7.72</i> | 2021 - 2025 |
| Aditya Junior College <i>Intermediate in MPC - Percentage - 97.6%</i> | 2019 - 2021 |

EXPERIENCE

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| Software Developer <i>Crop Doctor AI</i> | Oct 2024 - Jan 2025 <i>Florida, USA (Remote)</i> |
| <ul style="list-style-type: none">Designed a modern Flutter UI featuring custom animations and responsive layouts, ensuring a seamless user experience across various screen sizes.Implemented secure phone authentication using Firebase, developed a fast OTP-based authentication system, reducing sign-in time to under 30 seconds.Improved app quality through systematic testing and feature enhancements, leading to increased stability and user satisfaction. | |
| Research Intern <i>Department of Computer Science, NIT Warangal</i> | Jun 2023 - Jul 2023 <i>Warangal, India (On-site)</i> |
| <ul style="list-style-type: none">Presented a paper on the Genetic Algorithm for the Secure Domination Problem, accepted at ICAMM 2023.Proposed a genetic algorithm-based solution to address a prominent variant of the domination problem known as Secure Domination.Developed a meta-heuristic algorithm tailored for solving the Secure Domination Problem. | |

PROJECTS

Real Estate Web Application | ReactJS, JavaScript, MongoDB, NodeJS, ExpressJS

- Developed a robust real estate application using the latest **MERN** stack technologies, integrating advanced features such as search, authentication (JWT & Google OAuth), and dynamic routing.
- Engineered full **CRUD** operations to enable users to create, update, and manage property listings, including multi-image uploads, dynamic pricing, and advanced filtering options, ensuring an intuitive user experience.
- Deployed the application on **Render**, implementing a responsive design with Tailwind CSS, and optimizing performance for both desktop and mobile platforms.

Phishing URL Detection System | Python, HTML, CSS, Machine Learning.

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

Genetic Algorithm and PSO for Secure Domination Number Calculation | Algorithms, Python.

- Designed **meta-heuristics** for the NP-hard Secure Domination problem in graph theory.
- Optimized results using **Genetic** and **Particle Swarm Optimization** algorithms across nearly **200 graphs**.
- Achieved results below the theoretical upper bound on random graphs (Erdos-Renyi and Harwell-Boeing datasets) over **50,000** and **100,000** iterations, demonstrating algorithm efficiency..

TECHNICAL SKILLS

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| Languages | Java, C++, Python, C, JavaScript |
| Coursework | Artificial Intelligence, NLP, OOPS, DSA, Database Management Systems |
| Technologies/Frameworks | MongoDB, MySQL, GitHub, ReactJS, NodeJS, ExpressJS |

ACHIEVEMENTS

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| <ul style="list-style-type: none">Solved 500+ coding problems on LeetCode and Codeforces platformsReached 1500 rating (Knight rank) on LeetCode through consistent practicePresented research paper at ICAMM 2023 conference, received outstanding 4/5 review ratingRanked 1st in school and top 1% nationwide in JEE Mains 2021.Top 1 percent in the AP EAPCET examination 2021.Achieved 1st place in the AMTI mathematics examination at the regional level. | |
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EXTRA-CURRICULAR

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| Graphic Cafe, NIT AP <i>Executive Member (Designer)</i> | Sep 2023 - Jul 2024 |
| CSE Association, NIT AP <i>Volunteer (Designer)</i> | Aug 2022 - Sep 2023 |