

# SISTA GOPALA KRISHNA

+91-7207220116   gopalakrishnasista@gmail.com   Sista Gopala Krishna   gopal0204   gopal

## EDUCATION

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

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

## 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 upper bound on random graphs generated using Erdos-Renyi and Harwell Boeing datasets, over  $5 \times 10^4$  and  $10^5$  iterations.

## TECHNICAL SKILLS

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

## ACHIEVEMENTS

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

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