

# 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

*Intermidate 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

### REAL-ESTATE WEBSITE | ReactJS, JavaScript, MongoDB, NodeJS, ExpressJS.

- Developed a robust real estate application leveraging the latest **MERN** stack technologies, including React, MongoDB, Node.js, and Express.js, integrated with advanced search, authentication (JWT & Google OAuth), and dynamic routing features.
- Engineered complete **CRUD** operations, allowing users to create, update, and manage property listings with multi-image uploads, dynamic pricing, and advanced filtering options, ensuring an intuitive user experience.
- Deployed the application using **Render**, with responsive design powered by Tailwind CSS and optimized performance for both desktop and mobile platforms.

### PHISHING URL DETECTION | Python, HTML, CSS, 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  $5 \times 10^4$  and  $10^5$  iterations.

## TECHNICAL SKILLS

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

## ACHIEVEMENTS

- Presented research paper at **ICAMM 2023** conference, received outstanding **4/5** review rating
- 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.
- Achieved **1st** place in the **AMTI mathematics** examination at the regional level.

## EXTRA-CURRICULAR

### GRAPHIC CAFE NIT AP

SEP 2023 - JUL 2024

*Executive Member (Designer)*

### CSE ASSOCIATION NIT AP

AUG 2022 - SEP 2023

*Volunteer (Designer)*