

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

CROP DOCTOR AI

OCT 2024 - Present

Software Developer

Flourida, USA (Remote)

- Designed **modern Flutter UI** with **custom animations** and **responsive layouts**, delivering seamless user experience across all screen sizes.
- Implemented **secure phone authentication** with **Firebase**, creating a fast **OTP system** that enabled **30-second** user sign-ins.
- Enhanced app quality through **systematic testing** and **feature improvements**, resulting in improved **stability** and **user satisfaction**.

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, 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, **Random Forest** and **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.

- Designed a **meta -heuristics** for **NP-hard Secure Domination** problem in graph theory.
- Optimized results using **Genetic** and **Particle Swarm Optimization** algorithms for nearly **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	Java, C++, Python, 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)