Sista Gopala Krishna

gopalakrishnasista@gmail.com | Linkedin | Github

EDUCATION

NIT ANDHRA PRADESH
B.Tech in Computer Science and Engineering
3rd year completed

ADITYA JUNIOR COLLEGE
Maths,Physics and Chemistry
Grad. May 2021| Cum. Per: 97.6%

COURSEWORK

UNDERGRADUATE
- Artificial Intelligence
- Applied machine Learning
- Natural Language processing
- Data Structures and Algorithms
- Object Oriented Programming
- Design and Analysis of Algorithms
- Software Engineering
- DBMS
- Cloud Computing
- Operating Systems
- Compiler Design
- Digital Logic Design
- Discrete Mathematics
- Theory of Computation
- Computer Organization and Architecture

SKILLS

EXPERT
• Java • Python

ADVANCED
• C • C++ • HTML • MongoDB
• CSS • MySQL • DSA

INTERMEDIATE
• Numpy • Pandas • Git • Github
•JavaScript • React • Node
• Express

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.

EXPERIENCE

RESEARCH INTERNSHIP | Graph Theory Algorithms
JUN 2023 - JUL 2023 | NIT Warangal

- Proposed a genetic algorithm-based solution for solving a well-known variant of the domination problem called secure domination.
- Designed meta-heuristic algorithm for solving secure domination.
- Presented the *"GeneticAlgorithmforSecureDominationProblem"* paper, which got accepted at ICAMM2023 Conference (IIT Indore)

PROJECTS

PHISHING URL DETECTION | Python | HTML | CSS | Pandas | Machine Learning | Numpy

- Phishing URL detection is the process of identifying and blocking fraudulent website links that are designed to trick users into revealing sensitive information.
- It involves analyzing the URL and its characteristics, such as domain name, IP address, SSL certificate, and content.
- Random forest classifiers and Decision tree classifiers are used to train the data and detect the new phishing urls.

GENETIC AND PARTICLE SWARM OPTIMISATION ALGORITHMS FOR SECURE DOMINATION PROBLEM | Algorithms | Python | Graphs

- Designed heuristic for Secure Domination of graphs and generated a initial population of 1000.
- Using Genetic and Particle Swarm Optimization algorithms, I optimized the heuristic results.
- Tested on random graphs generated using Erdos-Renyi model and Harwell Boeing data sets and obtained results are much lower than the upper bound.

CLASSROOM MANAGEMENT SYSTEM | JavaScript | React.js | Node.js | MongoDB | Express.js

- It aims to streamline school management, class organization, and facilitate communication between students, teachers, and administrators.
- It involves features like individualized mark tracking, attendance recording, reminder system, weekly timetable management.
- User interfaces are built using React.js. Node.js, Express.js, and Mongoose are used as the back-end to store and manage data related to users, classes, assignments, marks, and attendance records.

CHESSUP | React.Js | Redux | JavaScript | MongoDB | Node.js | ScoketIo | Express.js

- It is multiplayer end to end chess game using web sockets.
- It involves features like chat windows, request for surrender,draw and roll back, replay mode for specific board state.
- Developed front-end using React.js and Redux , back-end using Node.js and Express, database using mongoDB and communication between server and clients using SocketIO .