RUTHUJA GAIKWAD

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Ruthuja Gaikwad | Ruthuja-Gaikwad
Warangal, Telangana - 506002, India

EDUCATION

- **SR University** *Sep 2022 - Jul 2026*
  Computer Science and Artificial Intelligence Warangal, India
  - GPA: 9.71/10.00
- **Impulse Junior College** *Juy 2022*
  HSC Hyderabad, India
  - Grade: 98.4%
- **Rishi High School** *June 2020*
  Secondary Education Warangal, India
  - GPA: 10.0/10

PROJECTS

- **Project A: Heart Failure Prediction** *Sep 2023 - Nov 2023*
  Tools: Machine Learning [ ]
  - With this project, I aimed to solve the problem of predicting heart failure using machine learning techniques. The project impacted X users by providing them with a tool to assess their risk of heart failure, potentially leading to early intervention and improved health outcomes. The final research or launch involved evaluating multiple machine learning models, fine-tuning them for accuracy, and creating a user-friendly interface for accessing the prediction tool.
- **Project B: Health Insurance Prediction** *Mar 2024*
  Tools: Machine Learning [ ]
  - With the health insurance prediction model project, I aimed to address the challenge of accurately predicting health insurance costs using machine learning techniques. This endeavor had a significant impact on X users by providing them with a reliable tool to estimate their future insurance expenses more precisely. The culmination of this project involved rigorous research, selecting and training the most effective machine learning algorithms, optimizing them for accuracy and efficiency, and finally presenting the results through an intuitive.
- **Project B: DDoS attack detection and mitigation** *Mar 2024*
  Tools: Machine Learning [ ]
  - Developed and implemented a machine learning-based solution to detect and mitigate Distributed Denial of Service (DDoS) attacks in Software Defined Networks (SDN).Utilized an ensemble of online machine learning classifiers (BernoulliNB, Passive-Aggressive, SGD, MLP) for real-time DDoS detection with dynamic feature selection.Achieved a 99.2 percent detection rate, outperforming industry benchmarks on datasets like CICDDoS2019, InSDN, and slow-read-DDoS, and tested using Mininet and Ryu SDN controller.Enhanced the adaptability of the model for emerging and zero-day DDoS attacks through continuous learning from live traffic data.

SKILLS

- **Programming Languages:** C, Python, Java, JavaScript
- **Web Technologies:** HTML, CSS
- **Database Systems:** MySQL
- **Data Science & Machine Learning:** Deep Learning (DL), Generative AI, Artificial Intelligence (AI), Machine Learning (ML)
- **Cloud Technologies:** AWS
- **DevOps & Version Control:** Git, Android Studio
- **Specialized Area:** Cybersecurity (for cyber attacks research), Artificial Intelligence (AI), Mobile Application Development (Android), Predictive Modelling (Agrovia)
- **Mathematical & Statistical Tools:** NumPy, SciPy, MATLAB)
- **Research Skills:** Cyber Attack Analysis, AI Research, Mobile Application Development, Predictive Modelling, Data Analysis, Problem Solving

Professional Memberships

- **Computer Society of India**, Membership ID: S50242300230130 *Dec 2024*

Internships

- **Internship at** , NIT,Warangal *May 2024-June 2024*

Certifications

- **DataBase Management System[NPTEL]** *Mar 2024*
- **Data Structures:** [COURSERA] *Oct 2023*
- **Generative-AI** [COURSERA] *Mar 2024*

Additional Information

Languages: English (Proficiency level), Hindi (Proficiency level), Marathi (Proficiency level), Telugu (Proficiency level)
Interests: AIML, Web Development, Android Development