SAI SRITEJ PALACHARLA

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LinkedIn GitHub

Summary

Graduate student in Computer Science (May 2025) with experience in functional programming, machine learning, and software development. Proficient in developing data-driven solutions and implementing efficient systems. Looking forward to build intelligent solutions that drive real-world applications.

Skills

Programming Development: Python, Java, REST , HTML/CSS, JavaScript, Ruby,MySQL
DevOps Cloud Platforms: Basic knowledge of Docker, Kubernetes, CI/CD Pipelines, Git, GCP, AWS (EC2, S3)
AI/ML Frameworks Tools: TensorFlow, scikit-learn, OpenCV, Jupyter Notebook, RESTful APIs

Research Experience

- **Graduate Research Assistant** **Sep 2023 – Present**
  University of Massachusetts, Lowell *Lowell, MA*
  - Conducted foundational research on functional programming concepts under Dr. Paul Downen.
  - Implemented and tested features related to sequent calculus in functional programming.
- **Heart Disease Detection Research** **Jan 2022 – Aug 2022**
  Koneru Lakshmaiah University *Vijayawada, India*
  - Published research on heart disease detection using Hybrid Random Forest and Gaussian Naive Bayesian techniques Click here to view the paper.

Internships

- **Web Development Intern** **Nov 2022 – Mar 2023**
  Arete IT Services Pvt Ltd *Lowell, MA*
  - Designed and developed responsive web pages using HTML, CSS, and JavaScript.
  - Collaborated with teams to improve user experience and optimize functionality.
- **Java Full Stack Intern** **Jan 2022 – Jun 2022**
  Elite Technology *Remote*
  - Created a recipe-sharing platform utilizing Node.js and MongoDB, with a responsive interface built.
  - To improve usability , I implemented crucial features such as user authentication and management.

Projects

- **COVID Drug Effect Analysis**: Analyzed medication effects on COVID-19 outcomes using the N3C dataset and causal inference techniques. Tools: Logistic Regression, Naive Bayes, Neural Networks, XGBoost.
- **Human Activity Recognition**: Built a real-time system using Raspberry Pi and machine learning to classify activities. Tools: Python, OpenCV, TensorFlow, AWS.
- **Lights Out - PC Game**: Developed a horror-themed PC game with intuitive mechanics using C++ and Unity.

Education

- **University of Massachusetts, Lowell** **May 2025**
  Master's in Computer Science (GPA: 3.7/4.0) *Lowell, MA*
- **Koneru Lakshmaiah University** **May 2023**
  B.Tech in Computer Science (GPA: 3.5/4.0) *Guntur, India*