VELAKURTHI SAIPRASANNA

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Entry Level Graduate

To obtain a Software Engineer role where I can leverage my strong foundation in C, C++, Python, and software development to contribute to innovative projects. As a motivated Computer Science and Engineering undergraduate, I aim to apply my academic knowledge and project experience in a dynamic team environment while continuing to learn and grow professionally.

Education

Malla Reddy College of Engineering for Women, Hyderabad, India, BTech in Computer Science and Engineering, 2021 - 2025

Narayana Junior College, Hyderabad, India, Intermediate in MPC, (GPA: 9.5), 2019 - 2021

Projects

Machine Learning based Rainfall Prediction
- Developed a machine learning-based rainfall prediction system with Python, improving prediction accuracy by 15% using ANN and Logistic Regression models.
- Processed and cleaned over 10,000 weather records, using data handling techniques that reduced missing values by 100%.
- Created a user-friendly Tkinter interface that lets uploading data, model training, and real-time predictions easy for users.
- Improves model performance 80/20 train test split training with 80%, rest used for testing or evaluating the model.
- Achieved 100% error handling coverage, ensuring smooth execution of all user actions, including data upload, prediction, and model training, without failures.

Neural Networks for Unicode Optical Character Recognition
- Designed a neural network model for handwritten numeric character recognition with an accuracy of 90%.
- Used image processing techniques to transform images into signals and extract important features.
- Used advanced neural network training algorithms that reduced error gradients by 40%.
- Improved the capability to search for images with a 25% reduction in time taken to compare.
- Optimized data storage with 30% savings in CPU memory usage during network training.

Skills & Interests

Programming Languages   Python, C, C++, JavaScript, Java
web Technologies   HTML, CSS, ReactJS
Data Management   SQL, working knowledge of backend application development
Course Work   Operating Systems, Database Management System, Data Analytics, Data Science, Software Engineering, Machine Learning, Computer Networks, Cybersecurity Fundamentals
Soft Skills   communication skills, Active Listening and Negotiation, Time Management, Analytical Thinking

Certifications & Achievements

Basics of Python, INFOSYS **Apr 2022**

Introduction to Cybersecurity, CISCO **Feb 2023**

Introduction to Internet of Things, NPTEL **Oct 2023**

Computer Networks and Internet Protocol, NPTEL **Apr 2024**

Countering Stage Fright, NPTEL **Sep 2024**

Full-Stack Development, Sulujo Technologies **Apr 2025**