DORASANIPALLE SATHYA PRAKASH

WEB DEVELOPER | DATA & AI-ML ENTHUSIAST | SOFTWARE DEVELOPER

SUMMARY

Third-year B.Tech student in Computer Science (Data Analytics) at VIT-AP with a CGPA of 8.54, passionate about AI, Machine Learning, and Data Science. Proficient in Python, Java, JavaScript, SQL, and TensorFlow, with hands-on experience in developing scalable applications, conducting AI/ML research, and leading tech initiatives. Contributed to projects like MedAI for disease prediction and DevTrack for project management, alongside research in cervical cancer prediction. As Vice President of CSI Chapter, organized coding events and hackathons, showcasing leadership and teamwork. I am eager to apply my skills to drive innovative solutions

TECHNICAL SKILLS

- Programming: Python, Java, SQL, C++, C
- Web Dev: HTML, CSS, JavaScript, React
- Version Control: Git, GitHub
- Databases: MySQL, MongoDB, PostgreSQL
- Data Viz: Matplotlib, Seaborn, Power BI, Tableau
- ML & AI: Scikit-Learn, TensorFlow, Keras
- Research in fields of AI,ML.
- UI - UX Designing: Figma, canva

WORK EXPERIENCE

Research Contributor - VIT-AP **Since Feb 2024**

- Conducted research on ML algorithms for Cervical Cancer Prediction, focusing on model evaluation and optimization. Contributed to GAN-based Image Classification and Crop Optimization studies. Authored AI/ML book chapters and currently working on filing a patent for AI-driven innovations.

CSI CLUB AND CHAPTER **Since Sep 2023**

- As Vice President of CSI Chapter at VIT-AP and former Lead of Competitive Coding at VCode, I've driven tech initiatives, including organizing the 100 days of coding in Java, hackathons, workshops, and HackerRank/CodeChef contests. Leading events and workshops, I've enhanced community coding skills. Mastered Java through projects like graph coloring, I'm now exploring web development (React, Node.js), advanced algorithms, and AWS, embracing lifelong learning.

EDUCATION

Bachelor of technology in computer science **2023-2027**

- VELLORE INSTITURE OF TECHNOLOGY – AMARAVATI
- CGPA: 8.54

Higher secondary education **2021-2023**

- Sri Deepthi Junior College
- Percentage: 97.2%

Secondary Education **-2021**

- St. Joseph's High School
- Percentage: 100%

RESEARCH STUDENT

- Researched "Comparative Analysis of Machine Learning Algorithms for Cervical Cancer Prediction," optimizing ML models with data preprocessing and feature selection to achieve 92% accuracy.
- Published "Optimizing Crop Production Through Smart Agricultural Practices" at ISCA3, improving yield prediction by 15% using ML.

CERTIFICATIONS & ACHIEVEMENTS

I have earned multiple certifications in relevant technologies, showcasing my dedication to continuous learning. I won the Code Sprint Challenge at VIT-AP, secured first place in a 24-hour Innovation Hackathon, and emerged as the winner of a Creative UI/UX Design Competition. Additionally, I was among the top 20 finalists in the National Tech Battle organized by CSI VIT-AP, demonstrating my problem-solving abilities and performance under pressure.

PROJECTS

1. **EcoShield** is a real-time environmental monitoring system that collects and analyzes data on air quality, temperature, and humidity using Arduino sensors. It automates data processing with Embedded C, ensuring efficient monitoring for eco-friendly applications. The system helps in tracking environmental changes and supports sustainability initiatives.
- Skills Used: Embedded C for microcontroller programming, Arduino & Sensors for data collection and integration, Data Processing & Automation for real-time monitoring

2. **MedAI** is an AI-powered healthcare system that predicts diseases based on patient symptoms using deep learning and neural networks. It leverages a multi-layer perceptron (MLP) model trained on medical datasets to provide accurate diagnostics. The system helps in early disease detection and assists healthcare professionals with data-driven insights.
Skills Used:
- Neural Networks (MLP, CNN) for predictive modeling
- TensorFlow & Keras for deep learning implementation
- Data Preprocessing & Feature Engineering for model optimization
- Flask & React.js for building an interactive web-based interface

3. **DevTrack** is a software engineering project management tool designed to track tasks, monitor progress, and streamline team collaboration. Built using MERN Stack, it features real-time updates, Kanban boards, and automated reporting to enhance productivity. The system helps teams efficiently manage software development workflows and deadlines.
- Skills Used: MERN Stack (MongoDB, Express.js, React, Node.js) for full-stack development, RESTful APIs for seamless data communication, Redux & State Management for efficient UI updates, Authentication & Role Management for secure access control