Satya Teja Chukka

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github.com/SatyaTejaChukka

Summary

B.Tech CSE (AI ML) student skilled in Python, C/C++, ML, and full-stack development. Experienced in building scalable APIs, cloud-deployed ML applications, and debugging complex systems. Seeking software engineering internships to apply development and problem-solving skills in real-world projects.

Education

Gayatri Vidya Parishad College of Engineering (Autonomous) Expected 2027

B.Tech in Computer Science & Engineering (AI & ML)

- CGPA: 8.79
- **Relevant Coursework:** Data Structures & Algorithms, Computer Networks, Operating Systems, Database Management Systems, Object-Oriented Programming, Machine Learning, Probability & Statistics

Technical Skills

- **Programming:** Python, C, C++
- **Networking:** TCP/IP, Routing, Switching
- **Machine Learning / AI:** Scikit-learn, TensorFlow, Keras, Pandas, NumPy
- **Backend / Cloud:** FastAPI, Flask, Docker, AWS (Elastic Beanstalk, S3, CloudFront)
- **Frontend:** HTML, CSS, JavaScript, React.js
- **Data Visualization:** Matplotlib, Seaborn
- **Tools:** Git, VS Code, PyCharm, Jupyter Notebook, Google Colab

Projects

Stroke Prediction App (FastAPI, Random Forest, AWS, HTML/CSS/JS) GitHub

- Developed a full-stack ML application predicting stroke risk using Random Forest with a FastAPI backend and responsive frontend.
- Deployed on AWS Elastic Beanstalk & S3/CloudFront with Docker, ensuring scalability and security.
- Conducted performance evaluation and model optimization to improve accuracy.

House Price Prediction Model (Python, Scikit-learn, Flask) GitHub

- Built a regression-based predictive model for housing prices with preprocessing (feature scaling, missing value handling).
- Deployed with Flask for real-time predictions with user-friendly interface.
- Implemented API testing and debugging to ensure performance and reliability.

Multi-Qubit Bloch Sphere Explorer (Qiskit, Flask, React, Three.js) GitHub

- Designed an interactive visualization platform for multi-qubit circuits using Qiskit + Flask backend and React + Three.js frontend.
- Implemented quantum state metrics (entropy, purity, fidelity) with animated Bloch spheres.

Certifications

- IBM (edX): Python Basics for Data Science, Analyzing Data with Python
- Coursera: Supervised Machine Learning: Regression and Classification

Activities

Member, Rotaract Club Aug 2024 – Present

- Organized and participated in multiple community events, building teamwork and leadership skills.