Sai Venkata Karthik Bachu

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Summary

Motivated Computer Science student with expertise in Java, Python, and C++ seeking opportunities in software engineering. Strong foundation in Data Structures, Algorithms, and Machine Learning. Demonstrated ability to develop practical solutions through academic projects and club contributions.

Education

Vellore Institute of Technology - AP   *2022–Present*
B.Tech in Computer Science and Technology
- GPA: 8.48/10.0

Resonance, India   *2020*
Intermediate (Class 12)
- Percentage: 86%

St. Joseph's School, India   *2010–2020*
ICSE - Class 10
- Percentage: 92%
- Participated in quiz competitions and school-level Olympiads

Technical Skills

Languages: Java, Python, C++, SQL
Frameworks/Tools: Git, Selenium, Scikit-learn, Pandas
Concepts: Data Structures & Algorithms, Machine Learning, OOPS
Databases: MySQL, PostgreSQL

Experience

Technical Team Member   *Oct 2022–Mar 2023*
Machine Learning Club - VIT AP
- Organized technical events with 100+ participants, improving engagement through interactive workshops
- Collaborated with SDC to propose UI/UX improvements for university portal

Research Team Member   *Jul 2023–Feb 2024*
Machine Learning Club - VIT AP
- Processed and analyzed datasets for ML projects, improving data quality by 60%
- Contributed to predictive analytics project for international tech fest

Projects

BigMart Sales Prediction   *Python, Scikit-learn*
- Developed ML model predicting sales with 85% accuracy using regression techniques
- Enabled better inventory management through data-driven insights

Encrypted Chat Application   *Java, AES Encryption*
- Implemented secure multi-client chat using TCP sockets and multithreading
- Integrated AES encryption for end-to-end message security

Security Home Bot   *C++, Arduino*
- Designed and built an autonomous home security robot with obstacle detection and path following
- Integrated sensors for real-time line tracking and serial communication for control switching

Achievements

- Published research paper on Cross-Cultural Communication and Interaction
- Top 15 in 24-hour Hackathon among 60 competing teams
- Represented school in city-level quiz competitions

Certifications

- Coursera: Introduction to Data Analytics
- Coursera: Data Visualization with Excel & Cognos
- Edureka: Selenium Automation Testing