Lalitha Samyuktha Jayanthi

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Value Proposition

Data Science graduate with strong foundation in CS fundamentals, including data structures, algorithms, and operating systems. Proven ability through projects to apply engineering principles, collaborate on user-focused solutions, quickly adopt new methods, and deliver efficient, reliable code in Java, Python, and HTML5. Committed to seeking feedback, managing time effectively, and driving improvements in software performance and observability.

Education

- B. Tech | CSE-Data Science | Avanthi Institute of Engineering and Technology | 2025 | 7.88 CGPA
- Intermediate | Sri Chaitanya Jr. College | 2021 | 9.12 CGPA
- Tenth | Sri Chaitanya School | 2019 | 9.5 CGPA

Technical Proficiencies

- **Programming Languages:** Java, Python, HTML5, CSS, JavaScript
- **CS Fundamentals:** Data Structures (e.g., arrays, linked lists, trees, graphs), Algorithms (e.g., sorting, searching, dynamic programming), Operating Systems (e.g., process management, memory allocation)
- **Tools & Technologies:** Git, VS Code, Jupyter Notebook, SQL, RESTful APIs
- **Soft Skills:** Time management, stakeholder collaboration, rapid learning of engineering methods, code documentation, and best practices (e.g., reusability, exception handling)
- **Other:** Problem-solving, debugging, unit testing, agile methodologies.

Projects

Scalable Task Management Web App (Python, HTML5, JavaScript)
- Developed a full-stack web application to manage user tasks, incorporating stakeholder requirements for features like priority sorting and deadline reminders, simulating business contexts for productivity tools.
- Applied algorithms (e.g., heap-based priority queues) and data structures (e.g., hash maps for quick lookups) to optimize task retrieval and sorting, improving efficiency by 40% in simulated tests.

Algorithmic Stock Analyzer (Java)
- Built a Java-based program to analyze stock data, solving complex problems like predicting trends using dynamic programming algorithms and graph-based data structures for market simulations.
- Gathered "user" requirements (e.g., via mock stakeholder interviews) to include features for real-time data processing and error-resistant inputs, emphasizing reliability and observability.

Efficient File System Simulator (Python)
- Created a command-line simulator mimicking operating system file management, using data structures like trees for directory hierarchies and algorithms for file allocation/deallocation to handle complex storage scenarios.

Internships & Simulations

- AI Intern – AIMER Society | 8 Weeks
- ML Intern – Indian Servers | 8 Weeks
- Data Science Intern – Yhills | 8 Weeks
- Data Science Intern – Prodigy | 4 Weeks
- Job Simulation – TCS | Forage Plat form

Certifications

Microsoft Power Platform Developer
Google Cloud Gen AI.
Java by Oracle.
SQL by Oracle.
Infosys Springboard SWE and Agile