Lalitha Samyuktha Jayanthi

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Value Proposition

Data Science graduate with a strong foundation in software development, database management, and data analysis. Skilled in SQL, Python, and debugging within existing architectures to build enhancements and reports. Passionate about healthcare workflows and continuous learning, with hands-on project experience in requirements gathering, collaboration, unit testing, and process improvements. Eager to contribute to software engineering teams by applying problem-solving, adaptability, and time management skills in a dynamic environment.

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

- **Technical:** SQL, PL-SQL, Database Management Systems (DBMS),
- **Programming:** Python, Java, PySpark, Debugging, Version Control (Git), Unit Testing, Data Analysis, Business Intelligence Tools Power BI.
- **Soft Skills:** Problem-Solving, Collaboration, Communication, Attention to Detail, Adaptability, Time Management, Continuous Learning, Mentorship (guided peers in group projects)
- **Other:** Azure Data Factory, Databricks (for big data processing), Healthcare Workflow Basics.

Projects

Healthcare Report Generation System (Python, SQL, Git)
- Designed and developed a reporting application to fetch patient data from a simulated Millennium-like database using SQL queries, process it with Python for analysis, and represent insights via Tableau dashboards, aligning with healthcare workflow requirements.
- Gathered mock requirements, created work estimates, and planned execution, resulting in 20% faster data processing through optimized PL-SQL procedures.
- Performed debugging and root cause analysis on data fetching issues, documenting resolutions and suggesting process improvements like automated unit testing to enhance the development ecosystem.

Big Data Enhancement Tool for Existing Application (PySpark, Azure Databricks, Java)
- Built enhancements to an open-source data processing application by integrating PySpark for real-time analytics on large datasets, including SQL-based data fetching and Java for backend logic.
- Participated in component-level technical design discussions with a team of 4, suggesting architecture improvements like modular code for better scalability.
- Debugged integration errors, conducted unit testing, and provided support for a "release" simulation, identifying process improvements such as Git branching strategies to streamline team operations.
- Focused on healthcare-inspired data (e.g., patient records), gaining understanding of workflows; communicated progress in group meetings, fostering collaboration and continuous learning.

Debugging and Process Improvement Simulator (SQL, Git)
- Developed a tool to debug and enhance an existing application for database management, incorporating PL-SQL for data querying and analysis.
- Identified root causes of performance bottlenecks through systematic debugging, documented resolutions, and suggested team-level process improvements like automated testing scripts.

- Managed time effectively under tight deadlines, adapted to evolving requirements, and mentored a junior teammate on Git usage and basic unit testing.
- Analyzed data for simulated business intelligence reports, emphasizing problem-solving and attention to detail in a collaborative setting.

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

- SQL by Oracle.
- Java by Oracle.
- Oracle Associate, Java SE
- Infosys Springboard certification in Software Engineering and Agile development.
- Google Cloud Gen AI.
- Data Analytics by Jobaaj Learnings.