

Lalitha Samyuktha Jayanthi

+91 7569606146

samyukthajayanthi09@gmail.com

Visakhapatnam

Value Proposition

Data Science graduate, Passionate about software development, database management, and cloud technologies. Proficient in Java, Python, and SQL. Hands-on experience through innovative projects involving relational and NoSQL databases, cross-platform development, and cloud services like AWS and Azure. Eager to apply problem-solving skills in resolving technical issues, collaborating with teams, and delivering high-quality solutions using agile practices.

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, SQL
- Databases:** Oracle Database, MS SQL Server, NoSQL (Cosmos DB, DynamoDB)
- Operating Systems:** Multiple Linux distributions (Ubuntu, CentOS), Windows
- Cloud Platforms:** AWS (EC2, S3, Lambda), Azure (App Services, Virtual Machines, Databricks)
- Mobile Platforms:** Understanding of iOS and Android application architecture
- Software Development Practices:** Agile methodologies, technical documentation (requirements, functional specifications, test plans), version control (Git)
- Other:** Problem-solving, collaboration, milestone management, application architecture.

Projects

Sales Analytics Warehouse (SQL Server, Python)

- Designed a star-schema data warehouse for a fictitious retail chain, ingesting daily CSV sales receipts with Python ETL scripts using Pandas and SQLAlchemy.
- Surfaced KPIs like monthly revenue and repeat-purchase rate via materialized views, demonstrating complex joins, window functions, and query-plan tuning.
- Created technical documentation including requirements, functional specifications, and test plans; collaborated in a simulated team environment to meet project milestones within deadlines.
- Tested across Linux (Ubuntu) and Windows platforms, resolving OS-specific issues for compatibility.

Healthcare Appointment Optimizer (Oracle Database, Python)

- Created tables for doctors, patients, and slots in Oracle Database; developed PL/SQL procedures to auto-reassign no-show slots.
- Exposed a REST API in Python using Flask for front-end schedules, integrating with mobile platforms (Android/iOS architecture considerations).
- Ensured ACID transaction design with triggers and stored procedures; documented test plans and resolved technical issues like concurrency conflicts.
- Translated requirements into engineered solutions, establishing and meeting milestones through agile practices.

Movie-Recommendation Mini-System (MySQL, Python)

- Loaded public MovieLens data into MySQL and crafted SQL views to aggregate ratings; exported to Python with scikit-learn for collaborative-filtering model training.
- Stored top-N suggestions back in SQL for fast retrieval, highlighting analytics functions and batch vs. real-time trade-offs.

- Produced functional specifications and test plans; simulated peer collaboration to refine the system and meet deadlines.
- Deployed with cross-OS compatibility (CentOS Linux, Windows) and cloud integration via Azure.
- **Real-Time Stock Tracker** (SQL, Python)
- Streamed live price ticks into hypertables using TimescaleDB; wrote SQL time-bucket queries for candlesticks.
- Served dashboards through Python FastAPI with WebSockets for live updates, demonstrating time-series schema design and partitioning.
- Included technical documentation and resolved asynchronous Python integration issues; managed milestones for timely delivery.
- Tested on multiple Linux distros and Windows, with optional AWS deployment.
- **Serverless Expense Classifier** (AWS Lambda, SQL)
- Used Python in AWS Lambda to OCR receipts, classify spending with an ML model, and persist results in RDS.
- Scheduled nightly SQL reports for users, showcasing serverless architecture, parameterized SQL, and IAM security.
- Documented requirements and functional specs; addressed technical issues in ML pipelines and met project deadlines.
- Ensured compatibility across platforms with a focus on cloud best practices.

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 Platform

Certifications

- Infosys Springboard certification in Software Engineering and Agile development.
- Microsoft Azure Fundamentals.
- Google Cloud Gen AI.
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- Java by Oracle.

Additional Information

- Willing to travel up to 10% for project needs.
- Strong learning attitude, demonstrated through self-initiated projects and continuous skill enhancement in emerging technologies.
- Authorized to work in India.