Lalitha Samyuktha Jayanthi

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Value Proposition

Data Science graduate passionate about functional programming and scalable systems. Eager to architect frameworks for UI/UX experiences, robust backend logic, AI-driven intelligence, and high-availability infrastructure . Excited about low-code platforms, self-service features, and solving reliability challenges to streamline application development

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:** Python, SQL, PySpark, Functional Programming Paradigms
- **Frameworks/Tools:** React, Azure Data Factory, Azure Databricks, Docker, Kubernetes, Git
- **Domains:** UI/UX Development, API Integrations, Machine Learning, Distributed Systems, Cloud Infrastructure

Projects

1. **Scalable UI/UX Framework with React Integration**

- Built a general-purpose UI framework for frictionless user interactions, using React and a proprietary-inspired markup system to enable seamless management of application options.
- Applied functional programming principles in Python for immutable state handling in dynamic experiences.
- Included low-code customization for end-users to modify interfaces without extensive coding. Tech: React, Python , HTML/CSS, Git.

2. **Flexible Backend System with FP and API Integrations**

Developed a backend engine for handling evolving requirements (e.g., integrations, authentication) using functional programming in Python, expressing complex logic concisely.

- Simulated a large-scale FP-based system with immutability and pure functions across all business logic. Tech: Python, RESTful APIs, SQL, Docker.

3. **AI-Driven Analytics Platform**

- Created a data science system processing simulated large datasets for automated intelligence, including anomaly detection and self-healing mechanisms.
- Built machine learning models for intelligent routing and automatic anomaly detection, achieving 95% accuracy in identifying irregularities.
- Incorporated AI assist features with aesthetic visualizations via interactive dashboards.
  Tech: Python (Scikit-learn, TensorFlow), PySpark on Azure Databricks, Matplotlib for visualizations.

4. **Reliable Cloud Infrastructure Framework**

- Architected an infrastructure DSL for unified management at scale, ensuring 99.999% availability in distributed environments.
- Designed multi-DC architecture with edge-based distributed computing for simulated nationwide loads.
- Added self-healing capabilities to automatically address performance and reliability issues.
- Integrated low-code features for end-users to modify and customize setups with minimal effort. Tech: Azure Cloud Services, Terraform (for DSL), Kubernetes, Python scripting.

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

- Google Cloud Gen AI
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- Java by Oracle.

Professional Attributes

- Problem-Solving at Scale
- Framework Architecting
- Low-Code Platform Development