

# Lalitha Samyuktha Jayanthi

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Visakhapatnam

## Value Proposition

Data Science graduate with hands-on experience in AI/ML, cloud infrastructure, and distributed systems. Skilled in building scalable solutions and troubleshooting complex environments. Passionate about open-source, customer-focused engineering, and continuous learning. Seeking a technical role to contribute to impactful, AI-native products.

## Education

- B. Tech | CSE-Data Science | Avanathi 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

**AI/ML:** Python, TensorFlow, PyTorch, Scikit-learn, OpenCV, Hugging Face Transformers

**Data and Analytics:** Pandas, NumPy, SQL, Matplotlib, Seaborn

**Cloud and DevOps:** AWS (EC2, S3, Lambda), Docker, Git, GitHub Actions, Jenkins

**MLOps and Infra:** PyTorch DDP, TensorFlow Distributed, Linux (ssh, journalctl, strace, dmesg)

**Tools:** Jupyter, VSCode.

## Projects

### AI-Powered Resume Ranker

An intelligent system that ranks resumes based on job descriptions using NLP and ML.

- Extracted key phrases using **spaCy**, TF-IDF, and cosine similarity
- Trained a **Logistic Regression** model to predict candidate-job fit
- Achieved 85% accuracy on validation set; used by peers for internship screening

### Real-Time Emotion Detection System

Built a computer vision pipeline to detect emotions from webcam feed.

- Used **OpenCV** and **DeepFace** for face detection and emotion classification
- Designed for real-time feedback in virtual classrooms

### Distributed ML Training Pipeline

Prototype for scalable training of image classification models across multiple nodes.

- Implemented using **PyTorch DDP** and **AWS S3** for data storage
- Benchmarked training speed improvements vs single-node setup
- Documented with **Swagger** and monitored via **Prometheus + Grafana**

### AI Chatbot for Student Support

Conversational AI to assist students with academic queries.

- Used **Rasa** and **BERT embeddings** for intent classification and response generation
- Integrated with **Telegram API** for real-time interaction
- Trained on custom dataset of FAQs and academic resources

## 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

- Python Developer Certification.
- Google Cloud Gen AI.
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- Java by Oracle.
- AWS Certified Cloud Practitioner.

## Core Competencies

- Excellent verbal and written communication
- Strong analytical and problem-solving mindset
- Proactive and self-driven learner
- Collaborative team player with customer empathy
- Passionate about building scalable, impactful solutions