

LALITHA SAMYUKTHA JAYANTHI

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OBJECTIVE

Motivated Data Science graduate with hands-on experience in systems software, cloud technologies, artificial intelligence and machine learning. Passionate about building scalable, secure, and innovative solutions across the software stack. Seeking a Software Engineer role to contribute to cutting-edge Systems and AI products through full-cycle development, testing, and support.

EDUCATION

Bachelor of Technology CSE-Data Science Avanthi Institute of Engineering and Technology 7.8 CGPA.	2025
Intermediate Sri Chaitanya Jr. College 9.12	2021
Tenth Sri Chaitanya School 9.5 CGPA	2019

SKILLS

- Programming Languages: Python, Java.
- AI/ML/DL: Scikit-learn, TensorFlow, PyTorch, XGBoost, NLP, Deep Learning Compilers.
- Data Science Tools: Jupyter Notebooks, Pandas, NumPy, Matplotlib, Seaborn.
- Cloud & DevOps: AWS, Azure, Docker, Kubernetes, REST APIs, Git, GitHub, CI/CD.
- Operating Systems: Linux (Ubuntu, CentOS), Windows Server.
- Storage & Networking: Basic knowledge of SAN/NAS, RAID, TCP/IP, DHCP, DNS.
- Visualization & UI: Power BI, ReactJS (basic), HTML/CSS.
- Databases: PostgreSQL, MongoDB, Redis.
- Other Tools: ServiceNow, VS Code, Google Colab.

PROJECTS

- Visual Question Answering System

Built a multimodal deep learning model using CNN and LSTM to answer questions based on images.

Used PyTorch and pretrained models; deployed via Streamlit for user interaction.

- YOLOv8 Object Detection for Smart Surveillance

Implemented real-time object detection using YOLOv8 and OpenCV.

Optimized model for edge deployment on Raspberry Pi with Docker containers.

- Spam Classification with NLP

Achieved 95% accuracy using TF-IDF and Logistic Regression on email datasets.

Deployed as a Flask web app with REST API integration.

Cloud-Based Energy Consumption Forecasting

Analyzed IoT sensor data from smart meters using time series forecasting (ARIMA, Prophet).

Deployed on AWS EC2 with interactive dashboards via Power BI.

- AI Chatbot for Enterprise Support

Developed a full-stack chatbot using Python, Flask, and ReactJS.

Integrated NLP pipeline with MongoDB backend and RESTful APIs.

INTERNSHIP

Tata Data Visualization: Empowering Business with Effective Insights Job Simulation on Forage

AI Intern at AIMER Society, contributing to innovative AI projects and research

ML Intern at Indian Servers, contributing to innovative ML projects and research

Data Science Intern at Yhills.

Data Science Intern at Prodigy.

CERTIFICATIONS

- IBM AI Engineering.
- TATA Data Visualization: Empowering Business with Effective Insights by Tata Consultancy Services and Forage.
- Google Cloud GenAI.
- GenAI 101 with Pieces by Let's Upgrade.
- SQL by Oracle.
- Data Analytics by Jobaaj Learnings.
- Infosys Springboard certification in Software Engineering and Agile development.