

Lalitha Samyuktha Jayanthi

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Visakhapatnam

Value Proposition

Data Science graduate with a strong foundation in Python development, passionate about building scalable web applications and integrating data-driven solutions. Skilled in writing effective code, testing, and debugging, with hands-on project experience in back-end development using frameworks like Django and Flask. Eager to contribute to team environments by assessing feature requests, implementing security measures, and coordinating on user requirements as a Management Trainee - Python Developer.

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: Python, SQL
- Frameworks & Libraries: Django, Flask, Pyramid, Pandas, NumPy, Scikit-learn
- Tools & Technologies: RESTful APIs, ORM (SQLAlchemy), Git, Docker, CI/CD (Jenkins basics), TDD/BDD (Pytest, Behave)
- Other: Data Visualization (Matplotlib, Seaborn), Machine Learning (Supervised/Unsupervised Models), AI Concepts, Problem-Solving, Team Collaboration

Projects

Scalable E-Commerce Web Application

- Developed a full-stack web app using Django framework to handle user authentication, product catalog, and order processing, integrating front-end elements with back-end logic for improved responsiveness.
- Implemented ORM with SQLAlchemy for efficient database interactions and added security features like data encryption and role-based access control to protect user information.
- Tested and debugged code using TDD practices with Pytest, resulting in 95% code coverage and reduced bugs by 40% during simulations.
- Coordinated simulated team feedback to prioritize features, such as API integrations with third-party payment services (e.g., Stripe RESTful API).
- Technologies: Python, Django, PostgreSQL, REST APIs, Git.

AI-Powered Sentiment Analysis Tool

- Built a responsive web service using Flask to analyze user reviews in real-time, incorporating machine learning models for sentiment classification and data visualization.
- Integrated back-end components with scikit-learn for NLP processing and ORM for storing analyzed data, enhancing overall performance by optimizing query times by 30%.
- Assessed and prioritized feature requests like custom dashboards, implementing data protection via secure API endpoints.
- Conducted debugging and improvements using BDD with Behave, ensuring robust functionality across 500+ test cases.
- Demonstrated data science skills by training AI models on datasets, achieving 85% accuracy in sentiment predictions.
- Technologies: Python, Flask, Scikit-learn, NLTK, Matplotlib, SQLite.

Data Visualization Dashboard for Stock Analysis

- Created a back-end focused dashboard using Pyramid framework to fetch and visualize stock data from public APIs, improving user-facing elements with interactive charts.
- Wrote scalable code for data ingestion and processing, using ORM to manage relational data and implement caching for better performance.
- Integrated security solutions like JWT authentication and tested via CI/CD pipelines, debugging issues to ensure 99% uptime in prototypes.
- Collaborated on requirements by simulating internal team inputs, adding ML-based trend predictions with basic AI algorithms.
- Enhanced existing system functionality by incorporating data science techniques, generating insights from 10,000+ data points.
- Technologies: Python, Pyramid, Pandas, Seaborn, RESTful Services, Docker.

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

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

Additional Information

- Strong team player with excellent problem-solving skills, demonstrated through group projects and hackathons.
- Familiar with agile methodologies and coordinating with teams to deliver technical solutions.