

Lalitha Samyuktha Jayanthi

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Visakhapatnam

Value Proposition

Data Science graduate with a passion for Generative AI technologies. Eager to contribute to AI-driven solutions by researching trends, developing models, and collaborating on innovative projects. Proficient in Python, AI/ML libraries, and NLP concepts, with hands-on experience in building GenAI prototypes. Strong analytical skills and a commitment to ethical AI practices, seeking to drive business value through creative AI applications.

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
- AI/ML Frameworks:** PyTorch, TensorFlow, Hugging Face, LangChain, LlamaIndex
- Generative AI Tools:** OpenAI API, Google Gemini, Claude, Prompt Engineering
- Data Handling:** Dataset Preparation, Data Cleaning, Fine-Tuning Models
- Other:** NLP, APIs, Cloud Platforms (Azure Data Factory, Databricks), Analytical Problem-Solving, Communication
- Languages:** English, Hindi, Telugu

Projects

1. Generative AI Chatbot for Customer Support

- Designed and implemented a conversational AI chatbot using OpenAI's GPT models and LangChain framework to handle customer queries in real-time.
- Conducted research on prompt engineering techniques to improve response accuracy by 25% in simulated tests.
- Prepared and cleaned datasets from public sources, fine-tuned the model for domain-specific responses, and integrated it with a simple web API.
- Created documentation and a demo presentation; deployed as a proof-of-concept on Google Colab, demonstrating potential for enhancing business processes.
- Technologies: Python, OpenAI API, Hugging Face, NLP.

2. AI-Generated Content Tool for Marketing

- Built a generative model using PyTorch and Hugging Face Transformers to create personalized marketing content, such as product descriptions and social media posts.
- Experimented with fine-tuning pre-trained models on custom datasets, incorporating ethical guidelines to avoid biases in generated text.
- Collaborated virtually with peers to integrate the tool into a mock workflow, resulting in a 40% faster content creation process in pilots.
- Prepared reports and visualizations on model performance; presented findings in a university hackathon.
- Technologies: PyTorch, TensorFlow, Prompt Engineering, Data Cleaning.

3. Image Generation Prototype for E-Commerce

- Developed a GenAI solution using Stable Diffusion (via Hugging Face) to generate product images based on textual descriptions, aimed at e-commerce customization.
- Researched latest AI trends, including LlamaIndex for efficient data indexing, and tested integrations with APIs like Google Gemini.
- Handled data preprocessing for training, ensured responsible AI by implementing filters for ethical image outputs, and executed a POC from concept to demo.
- Documented the project with code repositories on GitHub and a slide deck for stakeholder presentations.
- Technologies: Python, Hugging Face, Stable Diffusion, APIs.

4. Fun Facts Generator using Pieces, Generative AI 101 [Fun Fact Generator](#)

- Developed a Fun Facts Generator web application using Pieces Copilot and Generative AI 101 concepts; implemented prompt engineering and AI hallucination mitigation to generate accurate, interactive random facts with a user-friendly single-page.

| 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.