Lalitha Samyuktha Jayanthi

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Value Proposition

Recent graduate with a Bachelor's in Computer Science, specializing in Data Science. Passionate about developing generative AI solutions with strong foundations in machine learning, deep learning, and cloud technologies. Excelled in academic projects involving TensorFlow, PyTorch, and Python, demonstrating expertise in building and evaluating AI models. Eager to contribute to innovative AI projects by translating business needs into ethical, high-performance solutions.

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.
AI/ML Frameworks: TensorFlow, PyTorch, scikit-learn, Hugging Face.
Cloud Platforms: Azure AI Services, Google Cloud AI, AWS.
Techniques: Machine Learning, Deep Learning, Generative AI (GANs, VAEs, Transformers), Evaluation Metrics.
Other: Data Privacy & Ethics, Git Version Control, Problem-Solving, Analytical Skills, Stakeholder Communication

Projects

Generative AI Chatbot for Personalized Healthcare Recommendations

- Designed and built a state-of-the-art generative AI model using PyTorch and Hugging Face Transformers to create a chatbot that generates coherent, context-aware health advice based on user inputs.
- Collaborated with simulated stakeholders to define project goals, incorporating business requirements like personalization and ethical guidelines (e.g., bias mitigation).
- Conducted research on advanced techniques such as fine-tuned GPT models and diffusion models; evaluated outputs using metrics like BLEU score, perplexity, and human relevance assessments, achieving 85% coherence in test scenarios.
- Technologies: Python, PyTorch, TensorFlow, Azure AI Services for cloud deployment.

Deep Learning Model for Image Generation and Style Transfer

- Developed a generative adversarial network (GAN) using TensorFlow to create realistic images from textual descriptions, tailoring solutions for creative industries.
- Researched and evaluated techniques like StyleGAN and variational autoencoders; established custom metrics for quality assessment, including FID score and inception score.
- Translated business requirements (e.g., client-specific style preferences) into technical implementations, ensuring ethical AI by addressing potential biases in training data.
- Technologies: Python, TensorFlow, R for statistical analysis, Google Colab.

Machine Learning Pipeline for Predictive Analytics in E-commerce

- Built an end-to-end ML pipeline using scikit-learn and PySpark to predict customer behavior, incorporating deep learning for feature extraction.

- Communicated with team "stakeholders" to refine goals; researched ML techniques and ensured compliance with data security best practices.
- Defined evaluation methodologies, including accuracy, precision, and recall metrics, resulting in a 92% prediction accuracy on test data.
- Technologies: Python, R, Azure Databricks for big data processing.

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

- Microsoft Azure AI Fundamentals
- Coursera Deep Learning Specialization
- Google Data Analytics .
- SQL for Data Analysis.
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- Google Cloud Gen AI.