Lalitha Samyuktha Jayanthi

+91 7569606146 samyukthajayanthi09@gmail.com Visakhapatnam

Value Proposition

Motivated and academically accomplished recent graduate with a Bachelor's in Computer Science, specializing in Data Science. Strong foundation in machine learning, deep learning, and generative AI, demonstrated through high-impact academic projects. Proficient in Python, R, TensorFlow, and PyTorch, with a passion for solving complex problems and translating data insights into actionable solutions. Eager to contribute to innovative AI initiatives with excellent analytical skills and a commitment to best coding practices.

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, R
- **ML/AI Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras
- **Data Science Tools:** Pandas, NumPy, Matplotlib, Seaborn, SQL
- **Generative AI Techniques:** GANs, VAEs, Transformers, Diffusion Models
- **Cloud Platforms:** Exposure to AWS SageMaker and Google Cloud AI for model deployment
- **Other:** Git for version control, Jupyter Notebooks, Data Visualization, Statistical Analysis
- **Soft Skills:** Excellent problem-solving, analytical thinking, ability to translate business needs into technical solutions

Projects

Generative AI for Image Synthesis

- Developed a generative adversarial network (GAN) using PyTorch to create realistic synthetic images for medical diagnostics, improving dataset diversity by 40% for underrepresented conditions.
- Implemented advanced techniques like progressive growing and style transfer; evaluated model performance with FID scores and human perceptual studies.

Predictive Analytics for Economic Forecasting

- Built a deep learning model in TensorFlow to predict stock market trends using time-series data from economic indicators, achieving 85% accuracy on test datasets.
- Applied LSTM networks and incorporated statistical methods from R for feature engineering and anomaly detection.
- Integrated generative AI elements to simulate economic scenarios, enhancing model robustness.

Machine Learning for Sentiment Analysis

- Created a natural language processing pipeline in Python using Scikit-learn and Hugging Face Transformers to analyze social media sentiment on economic policies.
- Trained models on large datasets, incorporating deep learning for improved accuracy (92% F1-score); experimented with generative models for data augmentation.
- Deployed prototype on AWS SageMaker for real-time inference.

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

- Infosys Springboard certification in Software Engineering and Agile development.
- Google Cloud Gen AI.
- Data Analytics by Jobaaj Learnings.
- SQL by Oracle.
- Java by Oracle.