Sarayu Tallady

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Objective

Motivated Computer Science student with strong foundations in programming, data structures, and software development. Skilled in Python and Machine Learning with hands-on experience in building and deploying AI applications.

Education

Gokaraju Lailavathi Women's Engineering College, Hyderabad 2022 – 2026
B.E. in Computer Science and Engineering CGPA: 8.24
Sri Chaithanya Junior College, Hyderabad 2020 – 2022
Intermediate Percentage: 95.8
Maharshi Vidhyalaya High School, Mahabubabad 2019 – 2020
SSC CGPA: 10.0

Technical Skills

Languages: Python, Java (Intermediate), C
Web: HTML, CSS, JavaScript, Flask
Database: SQL (CRUD operations, Joins, Basic optimization)
Tools & Platforms: Google Colab, PyTorch, GitHub, VS Code, Streamlit
Concepts: DSA with Python, Object-Oriented Programming, Machine Learning
Soft Skills: Team Management, Effective Communication, Leadership

Internship Experience

AICTE–Edunet Foundation | AI & Machine Learning (Virtual) *June 2025 - July 2025*
- Completed a 6-week AICTE-certified internship in collaboration with IBM SkillsBuild.
- Developed and implemented an Employee Salary Prediction model using Python, Pandas, NumPy, Scikit-learn, and Machine Learning algorithms for regression analysis
- Gained hands-on training in model development, pipeline structuring, and AI-native application design.

Projects

EMDIM-DNA-Predictor (PyTorch, Transformers, Streamlit) [GitHub] [Live Demo]
- Built a transformer to classify DNA as healthy or diseased, detect mutations, and compute disease risk scores.
- Trained on 20K real DNA sequences (ClinVar + Human Genome) using k-mer encoding and positional attention.
- Integrated Streamlit UI with visual mutation maps, top-kmer explainability, and dynamic risk scoring.
- Achieved 96% accuracy in classification and deployed both locally and on cloud.

FashionMNIST-VAE (PyTorch, NumPy, Google Colab) [GitHub]
- Trained a Variational Autoencoder (VAE) on FashionMNIST dataset using GPU-accelerated training.
- Built encoder–decoder architecture with 20D latent space using reparameterization trick.
- Achieved 90% reconstruction accuracy after 10 epochs using MSE and KL loss.

Certifications

- Deep Learning and Prompt Engineering -Infosys Springboard
- Google AI Essentials - Coursera
- Frontend Development - Meta (Coursera)
- Python fork - GeeksforGeeks
- Data Analytics Job Simulation - Deloitte

Achievements

- Participated in Zignasa Hackathon by MLRIT College; developed a peer-to-peer skill sharing platform for collaborative learning.
- Attended AI and Gen AI Workshop conducted by GLEC, gaining insights into emerging technologies.
- Art Club Head at college; led and organized multiple large-scale cultural and technical events