

SHARON HEPSIBAH GADI

Andhra Pradesh, India

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Education

Vellore Institute of Technology, Bhopal, Bachelor of Technology in Computer Science

Specialization: Artificial Intelligence and Machine Learning **CGPA: 8.33**

Sept 2022 – Present

Tirumala Junior College, Intermediate (High School) **Score: 91.9%**

May 2022

Tirumala EM School, 10th Standard **Score: 99%**

June 2020

Work Experience

Data Analytics Intern

3-month internship

Unified Mentor

August 2025 - November 2025

- Trained on real-world Data Analytics projects under professional mentorship.
- Developed hands-on experience in data cleaning, visualization, and analysis using industry-standard tools.
- Collaborated on end-to-end project workflows, from data collection to insight generation.
- Enhanced problem-solving and analytical skills through structured learning modules and practical assignments.

Technical Skills

- **Programming:** Python, Java, C++, SQL, JavaScript
- **Systems & Distributed Computing:** Distributed system design, Concurrency & multithreading, Event-driven architecture, High-availability system design, Fault-tolerant microservices
- **Backend & Platform Tools:** Flask, FastAPI, Docker, GitHub Actions, AWS, GCP
- **Machine Learning:** TensorFlow, Scikit-learn, Pandas, NumPy, MLOps (MLflow, Airflow)
- **Database:** MySQL, Firebase, SQL Optimization
- **Testing & QA:** PyTest, Unittest, API Testing
- **DevOps & Cloud:** Docker, CI/CD Pipelines, GCP, AWS, Azure
- **Frontend / Mobile:** HTML, CSS, Bootstrap, Flutter (Basics)
- **Visualization:** Tableau, Power BI, Matplotlib

Certifications

- Computer Vision – VITyarthi 2024
- Python Essentials – VITyarthi 2023
- Applied Machine Learning in Python
- Gen AI – IBM 2025
- Blockchain Developer - IBM 2025
- IU Indianapolis Insights on Computational Data Science

Projects

AI Knowledge Mentor

Converted monolithic design into modular microservices for content extraction, summarization, and quiz generation. Added asynchronous task queues and parallel processing. [GitHub Link](#)

Malaria Detection App

Integrated model serving with a microservice architecture using Flask + Docker. Implemented caching and load balancing concepts to improve inference latency by 30%. [GitHub Link](#)

High-Availability Task Manager API

Designed a scalable REST API using FastAPI with asynchronous request handling, MySQL backend, Docker-based deployment, and CI/CD pipeline using GitHub Actions. Implemented retry logic, background workers, and optimized connection pooling for high throughput. [GitHub Link](#)

Instagram Fake Account Detection

Binary classifier using Random Forest to detect fake profiles with features like follower ratio and post frequency. Achieved 89% precision on test dataset of 5,000 profiles. [GitHub Link](#)

Lecture-to-Quiz Generator

An AI tool that converts lecture transcripts or notes into interactive quizzes and flashcards. It helps students revise faster by automatically identifying key topics and generating relevant questions. [GitHub Link](#)

Achievements & Awards

- Participated in Smart India Hackathon 2024; developed a prototype for a college attendance system using face recognition.
- Solved 250+ problems on LeetCode and HackerRank, focusing on data structures and algorithms.
- 5-star badge in Python on HackerRank.
- Presented a poster on "Applications of AI in Healthcare" at VIT Tech Fest 2023.
- Volunteered as event coordinator for Coding Club competitions at VIT.

Technical Interests

Distributed Systems, Backend Engineering, Telephony SIP , Real-time Processing Systems, MLOps, Workflow Automation, Fault-tolerant Microservices, CI/CD, DevOps, High-Availability Platforms.