

Pranathi Baredddy

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EDUCATION

Keshav Memorial Institute of Technology

2023 – 2027

Bachelor of Technology in Information Technology

CGPA: 8.86

EXPERIENCE

AI Engineer Intern | *GWING Software Solutions Pvt. Ltd, Hyderabad* | May 2025 – Jul 2025

- **Diabetes Prediction System:** built an SVM classifier with StandardScaler on the Pima Indians dataset, reaching ~77% test accuracy for a diagnostic-support prototype.
- **Customer Segmentation:** applied K-Means with the Elbow Method on mall customer data to surface 5 distinct segments for targeted marketing.
- **Plagiarism Detection:** benchmarked LR, RF, NB, and SVM classifiers over TF-IDF features; SVM led at ~88% accuracy.
- **Text Generation:** trained an LSTM (Keras) with tokenization and n-gram sequencing for next-word prediction on custom corpora.

PROJECTS

LLM Deployment on Mobile (Porting LLM) | C++, Flask, React Native, CMake, llama.cpp | [GitHub](#)

- Deployed Llama-3 (3B parameters) on Android via llama.cpp for fully offline CPU inference, cross-compiling C++ with Termux and CMake for mobile execution under device constraints.
- Benchmarked quantization strategies (selected Q5_K_M), cutting memory usage by 3GB while preserving response quality and achieving under 5-second latency on Galaxy S21-class hardware.
- Built a prompt-to-structured-JSON pipeline to convert natural language into actionable app-side commands, applying practical prompt engineering and LLM integration techniques.

Conversational AI for BI Dashboards (Easy Business Interface) | *Python, LLMs, SQL, React* | [GitHub](#)

- Built a Text-to-SQL platform that lets non-technical users query business data in plain English, using LLM prompt chaining to ground generation in the live database schema.
- Added a validation layer that checks generated SQL for correctness and safety before execution, reducing malformed or unsafe queries reaching the database.
- Designed a React dashboard that renders query results as tables and charts, closing the loop from natural-language question to visual insight.

Jewelry Design Pattern Generation | *MERN Stack, GAN*

- Engineered a GAN-based generative pipeline (generator + discriminator) that produces personalized jewelry design patterns from user-defined style inputs. a GAN-based generative pipeline (generator + discriminator) that produces personalized jewelry design patterns from user-defined style inputs.
- Built a MERN web app around the model so users can submit design preferences and browse generated pattern variations in real time.
- Iterated on training stability (loss balancing between generator and discriminator) to improve the visual coherence of generated designs. training stability (loss balancing between generator and discriminator) to improve the visual coherence of generated designs.

SKILLS

- **Programming Languages:** Python, Java, C++, SQL, JavaScript
- **AI/ML & Data Science:** NumPy, Pandas, Matplotlib, Seaborn, PyTorch, Scikit-learn, Transformers, LLMs, RAG, Prompt Engineering
- **Web & Application Development:** React, Node.js, HTML, CSS, REST APIs
- **Tools & Platforms:** Git, GitHub, VS Code, Jupyter Notebook, Google Colab, AWS
- **Core Concepts:** Data Structures & Algorithms, OOP, DBMS, Operating Systems, ML Fundamentals

ACHIEVEMENTS

- Solved 300+ LeetCode problems; earned 50-day and 100-day coding streak badges.
- Runner-Up, National-Level Hackathon at VNR Vignana Jyothi Institute of Engineering and Technology.
- Mentor, Vachan : Speakers' Club - Mentored 50+ students in public speaking, communication, and leadership; mentees showed marked improvement in stage confidence and participation in inter-college events.
- Core Member, Recurse : Technical Club — contributing to coding initiatives and community engagement.