Gokul Sree Chandra Polavarapu

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EDUCATION

- **Gandhi Institute of Technology and Management (GITAM)** — Visakhapatnam, India
  Bachelor of Technology in Computer Science and Engineering (3rd Year) — August 2023 - Present

SKILLS SUMMARY

- **Programming Languages** Python, SQL (MySQL, SQLite) – Joins, Subqueries, Window Functions, Indexing, Query Optimization.
- **Libraries/Frameworks** PyTorch, Scikit-learn, Numpy, Pandas (Data Cleaning), NLTK, Sentence Transformers, Flask, Matplotlib, Seaborn.
- **Machine Learning** Supervised Learning (Linear/Logistic Regression), Regularization (L1 & L2), Feature Engineering, Linear Algebra, Probability, Statistics, Data Preprocessing (Normalization, Standardization, Missing Data Handling).
- **Deep Learning** Neural network architectures, activation functions, loss functions, optimization using PyTorch.
- **Natural Language Processing** Tokenization, Bag of Words, TF-IDF, Stemming, Lemmatization using NLTK, Sentence Transformers (Embedding Generation).

EXPERIENCE

- **Young Compete - Technical Internship (Full Time)** — July 2024 - January 2025
  Head Of Operations — Remote, India

  - Developed 3+ tech projects, including Prof Connect, enabling streamlined networking for 1,500+ students and teachers.
  - Automated data scraping from 5 sources for the off-campus placements page, utilizing APIs, and improved access rate by 30%.
  - Led a team to deliver technical solutions and organized events, focusing on user engagement and community building.

PROJECTS

- **1. Sentiment Analysis on IMDB Dataset using Transfer Learning:**
  - Utilized the pre-trained Sentence-Transformer model (all-MiniLM-L6-v2) for generating sentence embeddings and built a fully connected neural network classifier in PyTorch to predict sentiment labels (positive/negative). Processed 50,000 reviews from the IMDB dataset and achieved 80.24% accuracy on the test set, showcasing the effectiveness of transfer learning in sentiment analysis. Technologies used include Python, PyTorch, and the sentence-transformers library.

- **2. SkillCheck - AI-Based Skills Evaluator:**
  - Developed SkillCheck, a Flask-based web application utilizing Groq API to evaluate user skills and improving learning outcomes. Integrated a Large Language Model (LLM) via Groq API, providing personalized AI-driven feedback, enabling learners to optimize their study approach 100% of the time. Used Flask for backend, Pandas for data preprocessing, Groq API for LLM integration.

  - GitHub Link - Demo Video

CO-CURRICULAR ACTIVITIES

- Organized 6+ "GAAC-MasterClasses" for Gitam Aero Astro Club (affiliated with MIT, Boston), achieving 60+ attendees per session, focusing on technical education and aerospace topics.
- Competed in national-level events like IIT Kanpur's Techkriti (Maneuver Bot, Astro Quiz) and ISRO's Bharatiya Antariksh Hackathon (Lunar Crater Locator), among 50+ teams.
- Member of Art of Living's YES+ Group since 1st year of college.
- Secured 2 nd place in the hackathon CODEX (for my SkillCheck Project) conducted by Young Compete.

CERTIFICATIONS (CLICK FOR VERIFICATION)

- **Databases and SQL for Data Science - IBM**
- **Google AI Essentials - Coursera**
- **AI For Everyone - deeplearning.ai - Coursera**