Gokul K

Chennai, India | gokulaenugu2005@gmail.com | 9566259022| linkedin.com/in/gokul-kishore-babu|
github.com/the-Gokul-Kishore

Education

Chennai Institute of technology, B.Tech Artificial Intelligence and Data Science   Nov 2023– May 2027
- CGPA: 9.21/10

Experience

Data Science Intern-Cognitreez – Remote   Dec 2024- Present
- Designed and developed the multi agent orchestarted chatbot interface using Dash, integrating FastAPI and Pydantic AI for seamless LLM-based interactions.
- Build based on SOLID system design principles and other devlopment practices
- Engineered an multi agent orchestrator visualization system, enabling dynamic and context-aware data-driven insights.
- Built a command-line interface (CLI) using Typer, streamlining chatbot interactions and reducing manual configuration overhead.
- Tools used: FastAPI,PydanticAI, Typer,PostgreSQL,SQLAlchemy,JWT,

Networking Intern, Cisco – Remote   May 2023 - June 2023
- Learned about network communication, protocols, and the basic requirements for internet connectivity.
- Designed and configured a basic home network using Cisco Packet Tracer, exploring LAN communication mechanisms.
- Learned the principles of IPv4 and IPv6 addressing, including efficient address management and DHCP-based network assignments.

Projects

Bytes – AI-Powered Financial Document Assistant(Team Just - A-Byte)
- Built a FastAPI backend with secure JWT authentication, CLI tooling (Typer), and modular database architecture using SQLAlchemy and PostgreSQL with pgvector for vector-based document retrieval.
- Developed a multimodal document parsing pipeline (text, tables, images) using PyMuPDF and Camelot; embedded page-wise chunks using HuggingFace SBERT for dense retrieval via LangChain's MultiVectorRetriever.
- Integrated a LangChain agent that outputs structured JSON responses with explanatory reasoning, embedded images, tables, and source page references extracted from financial PDFs.
- Tools Used: Python, FastAPI, LangChain, PostgreSQL (pgvector), SQLAlchemy, HuggingFace, PyMuPDF, Camelot, Typer, Docker

Career Guidance Analysis
- Designed an interactive dashboard for data visualization, aiding career guidance insights.
- Contributed to multiple aspects of the project, including model development, database setup, frontend design, and brainstorming sessions. Developed a data-driven chatbot that generates visual insights, assists in decision-making, and provides contextual explanations of trends.
- Tools Used: PostgreSQL, Python, Flask, Google Generative AI Library

Resume Matcher
- Developed an AI-powered resume matching system that ranks resumes based on job descriptions using cosine similarity. Integrated the SBERT model (all-MiniLM-L6-v2) via sentence-transformers, enabling context-aware matching beyond simple keyword comparisons.
- Optimized sentence embedding retrieval, enhancing accuracy and efficiency for large-scale resume datasets.
- Built a full-stack web application with a Flask backend for resume processing and a React.js frontend for seamless user interaction.
- Tools Used: Python, Flask, Sentence Transformers, React.js

Competitive Programming:

- **Leetcode:** Max rating 1860 (Knight Badge), Top 8.5%, Solved 870+ Problems, achieved highest rank 756 in Biweekly Contest 156
- **CodeChef:** Max rating:1,663,3 stars, solved 160+ Problems, achieved highest rank 52 in CodeChef Starters170-rated contest
- **CodeForces:** Max rating 1301, Pupil, Achieved highest rank 3487 in CodeForces 1011 (Div 2) contest

Skills:

Languages: C++, C, Java, JavaScript, SQL, Python , Java
Technologies: Flask, FastApi, Pydantic AI, Dash, Typer, Tableau, SQLAlchemy,langchain, Pandas, Scikit-Learn,

Libraries: Pandas, NumPy, SQL Alchemy,matplotlib , STL (C++), JWT(python-jose),PostgreSQL,pytest,Transformers,

Developer Tools: Linux(ubuntu), Git, GitHub, Docker, VS Code, Langfuse (observability platform), Tableau, Canva, ollama

ACHIEVEMENTS

- Top 10, Shaastra Code Golf Contest at IIT Madras (2025) Finalist in Shaastra Programming Contest at IIT Madras (2025).
- Advanced to second round of TCS global code Vita (2025).
- Finalist to college level codeathon (2023)
- Japanese JLPT N5 Certified (2024)
- finalist in DTCC AI Hackathon (2025)
- Sol ved over 1000+problems across various platforms.

CERTIFICATIONS

- **Networking essentials** – Cisco (2024)
- **Google AI/ML Certification** – Edu Skills (2024)
- **NPTEL Cloud computing** – NPTEL (2024)
- **Algorithmic Toolbox** – San Deigo university (2024)
- **Intermediate Python 3**: Object-Oriented Programming course – Codecademy (2023)
- **Cybersecurity Essentials** – CISCO networking Academy (2023)