

SHAKTHI JASHWANTH CH

Bengaluru, Karnataka – 560061 · +91 7483692066

shakthi.jashwanth@gmail.com ·  Shakthi Jashwanth ·  Shakthi Jashwanth

Education

B.M.S College of Engineering, Bengaluru

Bachelor of Engineering in Computer Science (Data Science)

Oct 2023 – Present

CGPA: 9.08

Experience

Machine Learning Project Intern

IEEE Computer Society Bangalore Chapter

Apr 2025 – Sept 2025

Guide: Dr. Pavan Kumar C, IIIT Dharwad

- Built a multilingual cyberbullying detection and intervention system to flag unsafe content and suggest safer rewrites.
- Trained mBERT/RoBERTa for detection, achieving 87.3% F1 on Dravidian and 84% F1 on English.
- Implemented hate-type classification (Religion, Age, Gender, Ethnicity, Other) with >90% precision/recall.
- Fine-tuned T5-base for toxicity reranking (ROUGH-L 0.89, BLEU 0.82).

Projects

• **Personal Knowledge Management System**

 GitHub

Designed a demo system for storing user-provided information and retrieving it through an AI-assisted query interface. Built a simple web-based UI and a basic **Kotlin Android application** to understand client-side interaction and UI flow. Focused on clean design, modular structure, and safe handling of configuration details.

• **Real-Time Multilingual Query Handler (RAG System, 2025)**

 GitHub

Built a Retrieval-Augmented Generation (RAG) system supporting multilingual user queries with automatic language detection and translation. Implemented document retrieval using vector embeddings and generated AI-based responses through a modular Python pipeline. Developed an interactive **Streamlit** web interface for real-time querying and analysis.

• **Amazon ML Challenge 2025 (Price Prediction, 2025)**

 GitHub

Developed a multimodal price prediction model by planning the fusion of text and image features. Implemented a **LightGBM** regressor using **Alibaba GTE** text embeddings for feature extraction. Optimized hyperparameters to minimize RMSE and SMAPE metrics against the leaderboard.

• **Himalayan Expeditions Analysis (Tableau, 2025)**

 GitHub

Created interactive data visualizations using **Tableau** to analyze Himalayan expedition data. Designed dashboards with filters by year, region, and expedition type to enable exploratory analysis.

Technical Skills

Programming Languages: C, Python, Java, SQL, JavaScript, HTML, CSS

Software Tools: Visual Studio Code, Postman, MySQL Workbench, Apache NetBeans, Jupyter Notebook

Collaboration and Design Tools: Git, GitHub, Figma

Leadership and Extracurricular

- **Joint-Secretary - D-Sync:** Data Science Club, BMSCE. Actively volunteered and campaigned for BMSCE's technical fest, **PHASESHIFT**, and cultural fest, **UTSAV**, contributing to event promotion and organization.
- **Coordinator and Volunteer:** Coordinated and volunteered in various events hosted by **D-Sync**, ensuring smooth execution and participant engagement.
- **Active IEEE Student Member:** Participating in workshops, sessions, and collaborations.