

SHAKTHI JASHWANTH CH

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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** Apr 2025 – Sept 2025
IEEE Computer Society Bangalore Chapter 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.