

# GOBIGA KRISHNASAMY

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## SKILLS

- **Programming Languages:** Python (Pandas, NumPy, scikit-learn, TensorFlow), SQL
- **Machine Learning & AI:** ML Algorithms, LLMs (Llama 3.1, Gemma 2B)
- **Generative AI:** Hugging Face, FAISS, ChromaDB, fine-tuning LLMs
- **Data Analysis & EDA:** Feature engineering, outlier treatment, SMOTE, MinMax scaling,  $R^2$ , MSE, RMSE
- **Data Visualization:** Matplotlib, Seaborn, SHAP, LIME, Power BI (interactive dashboards)
- **Deployment & Frameworks:** Streamlit, Gradio, Hugging Face Spaces, LangChain

## PROJECTS

### Cold Email Generator Using LLMs (Llama 3.1)

August 2024

- Designed and deployed a cold email generation tool leveraging **Llama 3.1** and **LangChain**, integrated with **ChromaDB** for fast and relevant email retrieval.
- Deployed on **Streamlit**, achieving a 70% user satisfaction rate in terms of personalized email content generation.
- Enabled real-time email drafting that saved users an average of 5 hours per week on email outreach tasks.

### Multi-PDF Chatbot Using Hugging Face (Gemma 2B)

August 2024

- Developed an LLM-powered chatbot capable of interacting with multiple PDF documents using the **Gemma 2B model** from Hugging Face.
- Implemented **LangChain** and **FAISS** for efficient document retrieval and deployed it on **Streamlit** for real-time query resolution.
- Achieved a 95% response accuracy based on the FAISS vector database, ensuring smooth, accurate multi-document interaction.

### Walmart Sales Forecasting

Sales Analysis and Forecasting Project

May 2024

- Conducted analysis on over **421,570** records to forecast weekly Walmart sales, cleaning the data and creating new time-based features.
- Applied **XGBoost Regression**, which achieved an impressive  $R^2$  of **0.99** for training data and **0.98** for test data.
- The results were visualized using **LIME**, leading to improved inventory planning and a 15% reduction in stockouts.

## Exploratory Data Analysis

April 2024

- Conducted **EDA** on various datasets (IMDB, Amazon Prime, Zomato, HR data) ranging from 10,000 to 30,000 records.
- Processed missing data and duplicates, and applied feature extraction techniques to uncover actionable insights for the business teams.
- Created insightful visualizations using **Matplotlib** and **Seaborn** to communicate results effectively, leading to informed decision-making.

## Power BI Dashboard

April 2024

- Designed interactive **Power BI dashboards** for analyzing key sales metrics, including revenue, sales trends, and customer demographics.
- Presented the dashboards to internal stakeholders, leading to actionable insights that improved the company's sales strategy.

## Development of Prediction Model for Turmeric Quality Parameters – Academic Project

March 2024

- Modeled the thermal degradation of turmeric and predicted quality parameters (curcuminoids, oleoresin, moisture content) using **Random Forest** and **Decision Trees**.
- Achieved an  $R^2$  of **0.98** for curcuminoids and **0.92** for moisture content predictions, providing valuable insights to the agricultural sector.

## LEADERSHIP & TRAINING EXPERIENCE

- **Team Lead**, Medical Data Analytics Project (2024): Led a team of 15 interns, providing training on **Python**, **SQL**, and **Power BI**, and prepared them for technical interviews, resulting in a 95% successful placement rate.
- **Power BI Workshop Instructor**: Conducted a hands-on workshop for college students, enabling them to create dashboards and understand business intelligence tools.

## EDUCATION

**Kongu Engineering College, Erode**

*B.Tech Food Technology*

CGPA: 9.54

(2020 - 2024)

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