

EBENAZER K

Machine Learning Engineer | AI Engineer | Data Scientist (Fresher)

kanniyakumari, India | +91 7558186327 | ebenazer890@gmail.com | [linkedin.com/in/ebenazer890](https://www.linkedin.com/in/ebenazer890) | github.com/ebenazer890

PROFESSIONAL SUMMARY

Detail-oriented Machine Learning Engineer with hands-on experience building and deploying 4+ end-to-end ML, NLP, and Generative AI applications using Python, Scikit-learn, LangChain, and FAISS. Skilled in data preprocessing, feature engineering, model evaluation, and RAG-based LLM systems, backed by a 5-month internship applying SQL and Power BI to deliver data-driven insights. Seeking a Machine Learning Engineer / AI Engineer / Data Scientist role to build scalable, production-ready AI solutions.

TECHNICAL SKILLS

Programming & Querying: Python, SQL

Data & Analysis: NumPy, Pandas, Matplotlib, EDA, Excel

ML Frameworks & Deployment: Scikit-learn, Streamlit, FastAPI, Docker

Visualization & BI: Matplotlib, Plotly

Version Control & Tools: Git, GitHub, Jupyter Notebook

MACHINE LEARNING SKILLS

Core ML: Data Preprocessing, Feature Engineering, Model Evaluation, Cross Validation, Hyperparameter Tuning

Algorithms: Linear Regression, Logistic Regression, KNN, Decision Tree, Random Forest, Naive Bayes, SVM

NLP: TF-IDF, NLTK, Text Classification

Generative AI: FAISS (Vector Search), Retrieval-Augmented Generation (RAG), LLM Applications

PROJECTS

Heart Disease Prediction — End-to-End ML Application

Technologies: Python, Scikit-learn, Streamlit, Pandas

- Engineered and deployed an end-to-end machine learning application using Scikit-learn and Streamlit, enabling real-time heart disease risk prediction.
- Performed data preprocessing and feature scaling across multiple clinical parameters to improve model input quality and consistency.
- Evaluated model performance using Accuracy, Precision, Recall, F1-score, and Confusion Matrix, ensuring reliable classification results before deployment.

Customer Churn Prediction — Classification Model

Technologies: Python, Scikit-learn, Streamlit, Pandas

- Developed a customer churn prediction model using multiple classification algorithms to identify at-risk customers.
- Performed feature engineering, categorical encoding, and missing value handling to increase model accuracy on production-style data.
- Built an interactive Streamlit application to serve real-time churn predictions to non-technical stakeholders.

SMS Spam Detection — NLP Text Classification

Technologies: Python, Scikit-learn, NLTK, Pandas, TF-IDF

- Built an NLP text classification pipeline using tokenization, stopword removal, and TF-IDF vectorization on raw SMS data.
- Trained and compared Naive Bayes, Logistic Regression, and SVM classifiers, evaluating results via Accuracy, F1-score, and Confusion Matrix to minimize false positives.

AI-Powered PDF Financial Analysis Chatbot (RAG)

Technologies: Python, LangChain, FAISS, Streamlit, Plotly

- Built a Retrieval-Augmented Generation (RAG) application using LangChain and FAISS, implementing document chunking, vector embeddings, and semantic search to ground LLM responses in source PDFs.
- Designed an interactive Streamlit interface with Plotly visualizations to present extracted financial metrics and support natural-language PDF question answering.

INTERNSHIP

Data Analyst Intern — Z3 Connect, Nagercoil

5 Months

- Cleaned and preprocessed raw datasets using Python and Pandas, applying SQL queries to extract and prepare data for exploratory data analysis and feature selection.
- Built interactive Power BI dashboards and KPI reports to communicate data-driven insights to business stakeholders, supporting machine learning workflow decisions.

EDUCATION

Bachelor of Technology — Artificial Intelligence and Data Science

2022 – 2026

St. Xavier's Catholic College of Engineering, Nagercoil

CERTIFICATIONS

- **Data Science Certification** — Networkz System
- **Python Certification** — Gelbero Pvt Limited

GITHUB & LINKEDIN

GitHub: github.com/ebenazer890 — ML, NLP & RAG project source code | **LinkedIn:** linkedin.com/in/ebenazer890