

BELICIA DENNY

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OBJECTIVE

B.Tech Computer Science graduate with a strong foundation in Python backend development, AI applications, and intelligent software engineering. Hands-on experience building AI-powered applications using Python, FastAPI, machine learning, and modern developer tools. Seeking to contribute to intelligent, scalable solutions while continuously learning and applying building scalable AI-powered applications that solve real-world business problems.

TECHNICAL SKILLS

Programming	Python, SQL, Java, TypeScript
Backend & APIs	FastAPI, REST APIs, SQLAlchemy, JWT Authentication, Role-Based Access Control (RBAC)
AI & Machine Learning	LangChain, Ollama, LLM Integration, RAG, Scikit-learn, NLP, FAISS
Databases & Tools	PostgreSQL, MySQL, Docker, Git, GitHub, Streamlit
Frontend & Analytics	React, HTML, CSS, Pandas, NumPy, Power BI

EDUCATION

Jyothi Engineering College, Thrissur, Kerala
Bachelor of Technology in Computer Science

2021 – 2025

TRAINING

Data Science with AI Trainee | Besant Technologies, Bangalore

Aug 2025 – Feb 2026

- Performed data preprocessing, exploratory data analysis, feature engineering, and machine learning using Python, SQL, Pandas, and Scikit-learn to prepare and analyze structured datasets.
- Built predictive models, evaluated their performance, and created interactive dashboards to visualize key insights while gaining practical exposure to AI and data-driven application development.

PROJECTS

AI Data Quality Guardian | Python, FastAPI, PostgreSQL, React, TypeScript, Docker, LangChain, Ollama

- Developed a full-stack AI-powered data quality platform using Python, FastAPI, PostgreSQL, React, Docker, and LangChain for automated dataset profiling, validation, intelligent recommendations, report generation, and data cleaning.
- Built REST APIs with JWT authentication, role-based access control (RBAC), audit logging, PDF generation, and AI-powered explanations using Ollama, following a scalable production-style architecture.

Enterprise AI Documentation Assistant | Python, FastAPI, LangChain, FAISS, Ollama (Llama 3.2), Streamlit

- Built an AI-powered documentation assistant using Retrieval-Augmented Generation (RAG) that enables developers to query API documentation, technical guides, and Markdown/PDF files in natural language, reducing the time spent searching technical resources.
- Developed a FastAPI backend integrating LangChain, FAISS vector search, and a locally hosted Llama 3.2 model via Ollama; implemented document ingestion, embedding generation, semantic retrieval, and an interactive Streamlit interface for context-aware responses.

Dark Pattern Detection | Python, XGBoost, NLP, SHAP, Power BI

- Developed a dark pattern classifier using XGBoost and TF-IDF NLP to detect deceptive UI patterns on e-commerce sites scraped via Playwright; applied SHAP values for model explainability and feature importance analysis.
- Integrated automated web scraping, regulatory mapping (EU DSA & FTC), and explainable AI to generate compliance insights while visualizing results through interactive dashboards.

Fake Review Detector | Python, Random Forest, NLP, Streamlit

- Developed an NLP-based fake review detection system using TF-IDF and Random Forest to classify business reviews, achieving 95% ROC-AUC, and deployed the application on Streamlit Cloud for real-time predictions.
- Performed text preprocessing, feature engineering, and comparative evaluation of multiple machine learning models to improve classification performance and support trustworthy online review analysis.

EvacSmart – AI-Based Disaster Management System | Flutter, Firebase, Python, Scikit-learn

- Developed a cross-platform disaster management application featuring evacuation assistance, volunteer coordination, donation management, and real-time communication using Flutter and Firebase, enabling efficient emergency response workflows.
- Integrated a Python-based machine learning prediction module using Scikit-learn to assess landslide risk from historical datasets, with Firebase providing real-time data synchronization and backend services for secure data management.

CERTIFICATIONS

- Python for Data Science** (IBM)
- Data Science with AI** (Basant Technologies)
- Cloud Computing** (NIT Calicut)
- Flutter App Development** (ICT Academy of Kerala)