

FATHIMA SHAMILA MEERASA SALEEM

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PROFILE

AI Engineer and Certified Data Analyst with experience in building intelligent, data-driven solutions using large language models (LLMs), generative AI and data science. Dedicated to leveraging AI technologies to develop innovative products and deliver measurable business value.

TECHNICAL SKILLS

AI & ML Frameworks: Llama-Index, Gradio, scikit-learn, Hugging Face, Generative AI Libraries | **Programming & Scripting:** Python, SQL, C, JavaScript, HTML/CSS | **Data Analysis & Visualization:** Google Colab, Tableau, Jupyter Notebook, MS Excel | **Databases & Tools:** SQLite, MySQL, MS Visual Studio, GitHub

EXPERIENCE

EXTERN SEP 2025 — PRESENT

Advanced AI-Powered Document Insights and Data Extraction Externship:

Developed a RAG-powered document Q&A chatbot using Llamalndex for intelligent information retrieval.

Integrated vector stores, Gemini, and open-source LLMs (*Phi-2, Mistral 7B, TinyLlama*) to benchmark performance and efficiency.

Tested and refined embedding models, prompts, and retrieval workflows to enhance RAG chatbot performance and improve response reliability.

PROJECTS

Employee Churn Prediction: Built a machine learning model using XGBoost to accurately identify high-risk employee churn (93% recall) for a consulting firm, revealing burnout and disengagement patterns that supported data driven retention strategies and projected \$8.96M yearly savings.

Prayer Times Chrome Extension: Developed a lightweight Chrome extension with a HTML/CSS/JavaScript frontend and Flask backend to display daily prayer times based on user location, featuring geolocation support and a clean, responsive UI.

CERTIFICATIONS

Google Data Analytics MAY 2024 — AUG 2024

Google Advanced Data Analytics SEP 2024 — DEC 2024

EDUCATION

B.Tech — INFORMATION TECHNOLOGY, St.Joseph's College of Engineering