

RAYAN SAMER ALSHAIB

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Computer Science graduate with a strong foundation in AI Engineering and NLP. Experienced in developing AI-powered recommendation systems and sentiment analysis models. Passionate about RAG, LLMs, and data-driven decision making.

Experience

AI-Powered Semantic Search System present

4/2026 to

- Developing a Retrieval-Augmented Generation (RAG) pipeline to enable natural language querying over custom datasets.
- Implementing a system focused on Vector Embeddings and semantic search to improve the context-awareness of Large Language Models.
- Utilizing Python and LangChain for orchestration and API integration.
- Currently focused on perfecting the retrieval logic and exploring Vector Database management for efficient data storage.

Gewan Medical Center Website Project (Freelance) (www.gewanmedicalcenter.com)

10/2025

- Engineered a responsive, multilingual medical platform using **JavaScript** and **Bootstrap**.
- Optimized user experience and ensured cross-device compatibility for complex medical service sections.

Senior Project: AI-Powered Academic Advising System (College Project) 5/2025

2/2025 to

- Developed an AI-powered web-based advising system with PHP and MySQL to help instructors recommend courses to students for the upcoming semester in a single click.
- Engineered a recommendation engine using OpenAI's GPT API, utilizing prompt engineering to generate personalized academic paths for students.
- Built role-based dashboards with secure authentication and real-time advising logic.

NLP Project: Sentiment Analysis of User Reviews (College Project) 4/2025 to 5/2025

- Developed a sentiment classification system comparing lexicon-based (VADER) and Transformer-based (BERT) methods to analyze Trustpilot reviews.
- Utilized Python, Hugging Face Transformers, and NLTK for model implementation and evaluation.
- Applied Information Retrieval (IR) techniques for advanced preprocessing and relevance-based filtering
- Performed data cleaning and tokenization on real-world datasets to improve classification across positive, negative, and neutral sentiments.

Core Skills

- **AI & Machine Learning:** LLMs (GPT API), RAG Architecture, Sentiment Analysis, Scikit-learn.
- **NLP:** BERT, VADER, Tokenization, Information Retrieval (IR).
- **Programming:** Python, SQL, C#, JavaScript, HTML/CSS.
- **Data Handling:** Pandas, NumPy, Data Preprocessing.
- **Tools:** Jupyter Notebook, Google Colab, Git, Postman.

Education

Lebanese International University (Beirut, Lebanon)

10/2022 to 8/2025 Bachelor of Science in Computer Science

Certificates

Forward Mena & Simplilearn (Online)

6/2024 to 10/2024 Certificate of Achievement in **Data Analysis**

(Business Analytics with Excel, SQL, Programming Basics and Data Analytics with Python, Tableau)

Nammiskills & LinkedIn Learning(online)

2/2026 to

4/2026

Become an **AI Engineer**

(Python for Data Science and Machine Learning, Generative AI: Introduction to Large Language Models, The AI Ecosystem for Developers: Models, Datasets, and APIs ,LLM Foundations: Vector Databases for Caching and Retrieval Augmented Generation (RAG), Advanced LLMs with Retrieval Augmented Generation (RAG): Practical Projects for AI Applications, Fine-Tuning for LLMs, Understanding Generative AI in Cloud Computing: Services and Use Cases, GenAIOps Foundations, Foundations of Responsible AI)