Rida Al Hajj Ali

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GitHub | Medium

Summary:

Junior Data Scientist and AI specialist Proficient in Python, SQL, machine learning, artificial intelligence, and data visualization, skills developed through both academic projects and hands-on experience. Ready to use my skills to solve real-world problems.

Experience:

IBKS – AI and Data Analytics Specialist (On-site)
Full time:
October 2025 – Present

- Implemented a natural language-to-SQL tool connected to multiple databases using a local LLM (Llama 3.1:8b) and Vanna, integrated with a RAG chatbot to enable dynamic data querying.
- Developed and optimized T-SQL queries to train, test the LLM for accurate sql generation
- Migrated AI workflows from Gemini to a fully local LLM setup, improving privacy, and scalability.
- Enhanced document processing pipelines, including intelligent chunking and structured data extraction

Internship:
June 2025 – October 2025

- Developed an AI-powered RAG chatbot capable of retrieving and synthesizing answers from documents (PDF, CSV, DOCX, PPTX, etc..) and images using OCR (Tesseract).
- Implemented FastAPI for the Chabot's backend services, ChromaDB for vector similarity search, Redis for low-latency response caching, Gemini as the LLM, and Mixbread-AI for embedding.

Siren Analytics – AI / Data Science Internship (On-site)
January 2025 – May 2025

- Contributed to a national project mapping quarries across Lebanon using satellite imagery.
- Developed and trained a YOLOv9 model to detect new quarry formations achieving high accuracy with 85% on segmentation and 80% for detection.

- Implemented a full training pipeline using ResNet50 to monitor quarry depth changes.
- Built real-time, chat-based voice AI assistants on Gradio and Telegram, supporting English, French, Spanish, and Lebanese Arabic.

Education:

University of Saint Joseph (USJ) – Metn, Lebanon

Bachelor's Degree in Data Science | GPA 3.5/4

September 2022 – May 2025

Skills:

Technical Skills: Machine Learning, Artificial Intelligence, Data Analysis, Computer Vision, Natural Language Processing, Prompt Engineering, Statistics

Programming Languages: Python, SQL, R, C++

Tools & Libraries: Pandas, TensorFlow, PyTorch, Numpy, Seaborn, TensorFlow, PyTorch, Power BI, Git, Microsoft Office

Soft Skills: Teamwork, Critical Thinking, Ownership of Projects, Time Management

Achievements:

Achieved 2nd among more than 100 participants in Google Developers hackathon done at Lebanese University, for building a RAG chatbot and analyzing Real-Estate data

Open Source:

Contributed to multiple repositories by identifying and reporting issues or assisting developers, particularly for top organizations such as Microsoft (1,2), Google DeepMind (1), LiveKit (1), and NumPy (1).

Languages:

Arabic: Mother Tongue | English: Proficient