

# Nagham Habli

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## PROFESSIONAL SUMMARY

ML & AI Engineer specializing in end-to-end LLM applications and automated machine learning pipelines. Delivered RAG-based systems and high-impact classification models that reduce manual effort and improve decision-making accuracy. Expertise in bridging complex data science with scalable, full-stack web integration.

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## SKILLS

- **ML/AI:** Supervised & Unsupervised Learning, Clustering (K-Means, DBSCAN), Anomaly Detection (Isolation Forest), Binary Classification, CNNs, Transfer Learning (EfficientNet), PCA, Feature Engineering, Imbalanced Data Handling
- **NLP/LLM:** RAG, LangChain, Hugging Face Transformers, FAISS, Semantic Search, Prompt Engineering
- **Programming & Frameworks:** Python, JavaScript, TypeScript, SQL (MySQL), PHP, React.js, Next.js, TailwindCSS, Laravel, Gradio
- **Tools & Practices:** TensorFlow, Keras, Pandas, NumPy, Scikit-learn, Git/GitHub, JIRA, RESTful APIs, Agile (Scrum)

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## PROJECTS

### AI-Powered HR Assistant

February 2026

- Developed an intelligent HR assistant using LangChain, Ollama (LLaMA3), and Gradio to automate employee queries, leave balance checks, and interview questions. Implemented a tool-augmented LLM architecture with intent classification to route between direct responses and database queries. Successfully automated 4 core HR workflows, reducing manual query response time by 80%.

### Resume Screening Assistant

January 2026

- Built a Retrieval-Augmented Generation (RAG) resume screening assistant using LangChain, FAISS, and Hugging Face LLMs. The system successfully retrieves and reasons over relevant resume content to answer hiring-focused questions (skills match, experience relevance, role fit), significantly reducing manual resume review effort. Delivered an interactive Gradio interface with streaming responses for a smooth end-to-end screening workflow.

### Disease Detection from Chest X-Ray

December 2025

- Developed a deep learning (CNN) model to assist radiologists in detecting pneumonia from chest X-rays, potentially reducing diagnostic time and improving early detection rates. Built an end-to-end pipeline with transfer learning (EfficientNet), achieving 88% accuracy and 0.95 AUC while addressing overfitting challenges common in limited medical imaging datasets.

### Credit Card Anomaly Detection

December 2025

- Built an anomaly detection system to flag potentially fraudulent credit card transactions for financial institutions. Using Isolation Forest on highly imbalanced data (0.17% fraud), achieved 33% precision and recall on fraud detection, enabling risk analysts to prioritize high-value suspicious transactions for manual review."

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## EDUCATION

Rafik Hariri University

Sep 2022 - April 2025

### Bachelor of Science in Computer Science

Recognition for Final Year Project