Yazeed Kamel

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PROFILE

I am a highly driven and dedicated 5th-year Computer Engineering student with a profound interest in Generative AI, Natural Language Processing (NLP), and Large Language Models (LLMs). Possesses a strong foundation in machine learning principles, including data preprocessing, feature engineering, model development, and evaluation. I am skilled in network communication, wireless technologies, computer architecture, operating systems, and hardware design. Demonstrates expertise in state-of-the-art AI techniques, including fine-tuning, retrieval- augmented generation, and embedding generation, with a passion for applying cutting-edge solutions to real- world challenges.

EDUCATION

Engineering, Jordan **Feb/2021-Jun/2025**

Bachelor of Computer Engineering, Hashemite University

PROFESSIONAL EXPERIE NCE

innovaTech Ltd, Amman **Jun 2024 – Dec 2024**

Web developer

- Collaborated on multiple web development projects utilizing **Flask**, **PHP**, and **JavaScript** to create dynamic and responsive web applications.
- Contributed to designing, coding, testing, and deploying scalable solutions to meet client requirements.

JODDB, Amman **May 2024 – Jul 2024**

Internship

- Currently gaining practical experience as an Internship Trainee at the Jordan Design and Development Bureau, focusing on real-world applications in network security, Linux OS, ethical hacking, and digital forensics. Actively using tools such as GNS3, Wireshark, Nmap, and Hping3 to simulate and evaluate cybersecurity scenarios
  Collaborating on team projects while developing skills in a dynamic and engaging work environment.

SKILLS

Programming languages: Python, C++, R, PHP, HTML, CSS, JavaScript

Techniques and Concepts: Retrieval-Augmented Generation (RAG), Low-Rank Adaptation (LoRA), Prompt Engineering, Embedding Generation, Data Preprocessing and Augmentation, Instruction Tuning, Fine-Tuning Techniques, Model Training and Evaluation, Hyperparameter Tuning

Cloud Platforms: AWS (SageMaker, BedRock, Glue, Athena), Google Cloud, Microsoft Azure

Computer software/ frameworks: PyTorch**,** Hugging Face Transformers, Git, GitHub, Google Colab, Flask

Tools and Technologies: PyCharm, Docker, SQL and NoSQL Databases**,** Pandas, NumPy, Git

PROJECTS

Multi-Agent System **Jan 2025**

Developed a system utilizing multiple AI agents to automate product research and comparison:

- Agents: Included research, comparison, negotiation, analytical, and recommendation agents.
- Technologies: Integrated Web Scraping, NLP, and APIs (e.g., Amazon, Google) for data retrieval and analysis.
- Outcome: Streamlined decision-making, reduced costs, and enhanced transparency through automated, data-driven recommendations.

Generative AI for University Policy Assistance **Jan 2025**

- Developing an AI-powered platform utilizing Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG) to simplify and explain government laws in Arabic, starting with the Ministry of Labor's regulations, with a focus on improving accessibility and user understanding.

Crawling Website **Jan 2025**

- Designed and implemented a web crawling system to extract structured data from multiple websites efficiently.
- Leveraged advanced scraping techniques and tools to gather and organize large datasets for analysis.
- Focused on developing a scalable solution for integrating extracted data into downstream applications, enhancing information accessibility.

Enhancing Arabic Language Embedding Model **Nov 2024**

- Improved an embedding model's performance in processing Arabic text by fine-tuning and optimizing its parameters, addressing linguistic complexities, and enhancing its contextual understanding for better accuracy in downstream tasks. External Knowledge Q&A System

Assembler & Cycle accurate simulator **Dec 2024**

- Developed an Assembler and Cycle Accurate Simulator using Python, designed to accurately simulate the execution of assembly instructions at the cycle level. This project involved parsing assembly code, implementing instruction encoding and decoding, managing pipeline stages, and handling hazards to achieve precise cycle-by-cycle simulation. The tool was tested and validated against real-world benchmarks to ensure its reliability and accuracy

PROJECTS

Upskilling Cyber-Security JODBB

IBM AI Developer Professional Certificate IBM

Evaluating and Debugging Generative AI Deep Learning

Deep Learning with PyTorch IBM

CCNA Cisco

AWS certified cloud practitioner (in progress) Amazon