

# Eyad Ahmad Babkier

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## PROFESSIONAL SUMMARY

Computer Science graduate from Umm Al-Qura University with expertise in Java, Python, SQL programming, and full-stack development. Specialized in Artificial Intelligence, Natural Language Processing, and database management with hands-on experience in software development, algorithm design, and system architecture. Published researcher in Arabic NLP with proficiency in Large Language Models, prompt engineering, and machine learning frameworks including PyTorch and HuggingFace. Achieved first place in Saudi Arabia for monthly sales performance as part of deli team at Lulu Hypermarket. Seeking to leverage programming skills, problem-solving abilities, and analytical mindset in a dynamic software development role.

## PROFESSIONAL EXPERIENCE

### Lulu Hypermarket Market Seller

- Achieved first place in Saudi Arabia for monthly deli team sales performance
- Provide bilingual customer service (Arabic/English) with product recommendations
- Develop strong communication and problem-solving skills through direct customer interaction

## EDUCATION

### Umm Al-Qura University

2019 Jul – 2024 Jun | Makkah, Saudi Arabia

### Bachelor of Technology, Computer Science

- Investigating Persuasion Techniques in Arabic (Graduation Project):** Developed an empirical study leveraging Large Language Models for automated detection of persuasive elements in Arabic texts. Implemented prompt engineering techniques with GPT-3.5/GPT-4, AraBERT, and MARBERT models. Applied deep learning, transformer architecture, and few-shot learning approaches. Achieved significant results in binary and multi-label text classification for disinformation detection.
- Java Shop Manager Application:** Built a comprehensive inventory management system using Java, JavaFX, and MySQL. Implemented CRUD operations with product search, filtering, and deletion functionality. Designed database schema and developed console interface with input validation and error handling. Collaborated in team environment using NetBeans IDE.

## TECHNICAL SKILLS

- Programming:** Java, Python, SQL, HTML, CSS, JavaScript (Basic), R language
- Frameworks & Libraries:** PyTorch, HuggingFace, Scikit-learn, Pandas, NumPy, JavaFX
- Databases:** MySQL, NoSQL, Database Design, Data Modeling
- Tools:** NetBeans, VS Code, PyCharm, Microsoft Office, Excel, Google Sheets, Tableau, RStudio, Kaggle, Google Colab, PowerPoint, Google Slides
- Concepts & Techniques:**
  - Artificial Intelligence & Machine Learning:** Large Language Models (LLMs), Prompt Engineering, Fine-Tuning, Zero-Shot Learning, Few-Shot Learning, Deep Learning, Transformer Architecture, Supervised & Semi-Supervised Learning, Natural Language Processing (NLP), Text Classification, Sentiment Analysis
  - Database Concepts:** ACID, Query Optimization, Transactions, Data Normalization, Schema Design, Structured Query Language
  - Software Engineering Practices:** Object-Oriented Programming (OOP), Algorithm Development, System Architecture, Code Debugging, Software Testing
  - Data Analysis Techniques:** Data Cleaning and Preprocessing, Statistical Analysis, Model Performance Evaluation, Visualization and Reporting, Feature Extraction, Data Aggregation, Data Strategy, Data Integrity, Data Ethics

## PROFESSIONAL SKILLS

- Software Development & Debugging
- Database Management Systems (DBMS)
- Project Management (Planning, Organizing, Documenting)
- Customer Service & Sales Performance
- Critical Thinking & Analytical Skills
- Dashboard Creation & Data Visualization
- Artificial Intelligence & Machine Learning Implementation
- Problem-Solving & Algorithm Development
- Research & Publication
- Team Collaboration & Communication
- Data Analytics & Business Intelligence

## PUBLICATIONS

### Investigating Persuasion Techniques in Arabic: An Empirical Study Leveraging

2024 May

### Large Language Models Cronell University - arXiv

Conducted cutting-edge research in Arabic NLP focused on automated detection of persuasion techniques in social media texts for disinformation detection. Implemented transformer architectures and bidirectional encoders using pre-trained language models including GPT-3.5, GPT-4, BERT, AraBERT, MARBERT, and CAMElBERT. Applied supervised and semi-supervised learning approaches with prompt engineering, contextual embeddings, and feature extraction techniques using PyTorch, HuggingFace, and OpenAI API. Performed comprehensive model training, adaptation, and benchmarking for binary and multi-label text classification tasks. Evaluated model performance using F1-Score (micro & weighted), accuracy, and Jaccard Score metrics through empirical analysis and computational

## CERTIFICATES

**Google Data Analytics Professional Certificate** — Google via Coursera | 2023 Aug | Completed comprehensive 7-module program covering data cleaning, problem-solving, critical thinking, data ethics, and data visualization | Gained proficiency in SQL, R Programming, Tableau, Excel, Google Sheets, and presentation tools (PowerPoint, Google Slides) | Developed expertise in data types, data strategy, data integrity, data aggregation, and information-sharing best practices | Applied hands-on experience with spreadsheets, databases, structured query language, programming concepts, and dashboard creation | Utilized platforms including RStudio, Kaggle, and various data visualization tools for comprehensive data analysis projects

## LANGUAGES

Arabic — Native/Bilingual

English — Fluent