

Sara Alqethami

MSc. in Artificial Intelligence

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PROFILE

Senior AI Specialist with a Master's in Artificial Intelligence, experienced in leading AI research and technical projects. Published 6 scientific papers, delivered 4 innovative projects, and holds NVIDIA certifications in Generative AI (LLM & Multimodal).

EXPERIENCE

Artificial Intelligence Specialist

09/2024 – Present | Riyadh, Saudi Arabia

Confidential Government

- Applied AI systems for secure data and network analysis, produced research and technical reports standardized as the department's reference, and supervised colleagues through training on internal systems and report development.

Researcher/Data Analyst

08/2022 – 12/2022 | Makkah, Saudi Arabia

Institute for Hajj and Umrah Research

- Conducted data collection and analysis on Hajj services, co-authored a peer-reviewed paper presented at the 2022 Hajj Conference, and defined the core services and requirements later incorporated into a mobile app for female pilgrims.

AI Researcher

02/2022 – 05/2022 | Rabigh, Saudi Arabia

Rabigh Municipality

- Collected and labeled the first Saudi dataset on road surface damages, developed RoadNet (CNN model) achieving 90% accuracy, and published findings in a peer-reviewed journal as part of a Master's thesis.

EDUCATION

Data Engineering Bootcamp – WeCloudData

02/2024 – 06/2024 | Riyadh, Saudi Arabia

Saudi Digital Academy

MSc. in Artificial Intelligence

07/2020 – 09/2022 | Makkah, Saudi Arabia

Umm Al-Qura University

GPA: 3.98/4.00 (First Class Honors)

BSc. in Computer Science

08/2014 – 05/2018 | Makkah, Saudi Arabia

Umm Al-Qura University

PROFESSIONAL CERTIFICATES

- NVIDIA Certified Associate – Generative AI with LLMs
- DAMA Certified Data Management Professional
- Huawei Certified ICT Associate – Artificial Intelligence (HCIA-AI) v3.0

- NVIDIA Certified Associate – Generative AI with Multimodal
- Google Data Analytics Professional Certificate
- McKinsey Forward Program

SKILLS

Technical Skills:

Programming: Python, SQL

Machine Learning & Deep Learning: Scikit-Learn, TensorFlow, PyTorch

NLP: Hugging Face, Transformers (BERT, GPT)

LLMs: Fine-Tuning, Prompt Engineering, LangChain, RAG, APIs & Integration

Soft Skills:

- Collaboration & Communication (cross-functional teams)
- Problem-Solving
- Fast Learner & Adaptability
- Technical Writing & Reporting
- Research Collaboration & Publications

ACHIEVEMENTS

- Hands-on Projects

• Web Scraping (Client Project)

Extracted structured product data from a dynamic website using Selenium, BeautifulSoup, and requests. Automated data collection across multiple product attributes and delivered clean, analysis-ready datasets for reporting.

- Applied AI Projects

• Road Vision System (supported by the MISK Foundation)

Designed and developed a mobile application (iOS & Android) that detects road damage using AI models with 90% accuracy. Automated location-based reporting and reduced manual effort by 60%. Integrated with a centralized system to receive reports and enable full administrative control over monitoring and maintenance processes.

• Wastlytic (supported by the Ministry of Hajj and Umrah)

Developed an AI dashboard prototype for waste monitoring during Hajj. Utilized deep learning models for object detection and classification, achieving over 90% accuracy in internal testing. Designed to generate real-time alerts and support operational decision-making.

PUBLICATIONS

Disease Detection in Apple Leaves Using Image Processing

09/04/2022

Techniques 

ETASR

RoadNet: Efficient Model to Detect and Classify Road Damages

13/11/2022

MDPI

RehlaTech: E-Application for Female Pilgrims and Visitors of Al-Masjid Al Haram

22/01/2023

Institute for Hajj and Umrah Research

Enhancing E-commerce Security: Real-Time Fraud Detection

04/04/2024

IJCSNS

ExamVoice: Innovative Solutions for Improving Exam Accessibility for Blind and Visually Impaired Students in Saudi Arabia

30/09/2024

MDPI

LANGUAGES

English — Professional working proficiency | **Arabic** — Native