NOOR ALDEEN AL-HARAHESHA

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SUMMARY

Multidisciplinary Data Scientist with strong experience in **Computer Vision and NLP**, building end-to-end AI solutions for **image understanding, OCR, document intelligence, and semantic search**. Skilled in developing production-ready pipelines using **Python, YOLO, Transformers, and Elasticsearch**, covering data ingestion, preprocessing, model inference, evaluation, and reporting. Proven ability to deliver scalable systems for real-world use cases such as **damage detection, license plate recognition, contract analysis, and compliance/risk scoring**, with a focus on performance, reliability, and measurable business impact

EXPERIENCE

DATA SCIENTIST

Qistas for information technology **November 2025 - Present, Amman-7th circle**

Qistas is an online Arab law search engine that offers an unrivaled mechanism for investigating legal issues.

- Delivered Phase-1 Contract Reviewer Agent (PDF/DOCX ingestion, extraction, clause detection, risk scoring via playbooks, dashboards & HTML reporting).
- Designed agentic legal workflow framework (routing logic, prompt standards, verification/anti-hallucination patterns, IRAC-based structuring).
- Implemented term/vocabulary consistency layer to detect and resolve legal terminology conflicts across documents.
- Produced internal documentation and demo materials (workflows, diagrams, decks, scripts) to align product, leadership, and UX teams.

AI Machine Learning Specialist

Future Technology Systems Co. (FutureTEC) **June 2025 - August 2025, Amman-Macca St.**

- Built a Sales Analytics Chatbot with dynamic SQL, predictive insights, and interactive dashboards using FastAPI, Streamlit, and PostgreSQL.
- Developed a multi-agent LLM system with real-time charts, chat history, and intelligent fallback for sales forecasting and analysis.
- Created a secure GRC AI Assistant (AutoAuditAI) to extract cybersecurity findings from audit reports using LLM-based document parsing.
- Designed pipelines for sentiment analysis, document tagging, and PDF highlight extraction using OCR, rules, and LLMs.
- Deployed production-ready AI tools with systemd, Git, and PostgreSQL across internal client environments.

DATA SCIENTIST

Qistas for information technology **September 2023 - June 2025, Amman-7th circle**

Qistas is an online Arab law search engine that offers an unrivaled mechanism for investigating legal issues.

- Led and contributed to AI/ML projects in the legal tech sector across Gulf countries (Jordan, Bahrain, Saudi Arabia, UAE), impacting over 280,000 legal cases and stakeholders.
- Developed and deployed “Araf,” a multilingual AI legal chatbot providing automated consultations to 5,000+ users monthly across four Gulf countries, achieving 85%+ user satisfaction.
- Built NLP models to summarize and compare legislative changes, reducing legal research time by 30% for professionals tracking evolving regulations.

DATA SCIENTIST Intern

Orange Company **May 2023 - July 2023, Amman-Dakhlia Circle-digit village**

- Conducted comprehensive data collection, cleansing, and preprocessing to ensure high-quality, analysis-ready datasets across diverse sources.
- Engineered, trained, and fine-tuned machine learning models with a strong emphasis on model performance, scalability, and iterative enhancement.
- Collaborated with cross-functional teams to align technical solutions with business objectives, ensuring efficient project execution and stakeholder engagement.
- Led and contributed to full-cycle data science projects from initial problem definition to model deployment within fast-paced, deadline-driven environments.
- Prioritized continuous learning and technical excellence through hands-on experimentation, peer collaboration, and active knowledge sharing within the team.

Data scientist Intern

SHAI For AI Company **September 2022 - February 2023, Amman-Queen Rania st**

- Developed and deployed advanced computer vision, machine learning, and NLP models, achieving up to 84% accuracy across multiple AI-driven applications.
- Engineered a Python library for real-time employee face recognition and attendance analytics, achieving 87% recognition accuracy and reducing manual attendance tracking time by 40%.
- Led end-to-end development of a real-time object detection system for live-streamed Arabian Tarneeb card games using YOLOv5, PyTorch, and OpenCV, delivering detection latency under 100ms and achieving 70% precision.

PROJECT

SmartBloom Plant Disease Detection & Flower/Plant Classification (Computer Vision)

Personal Project (SmartBloom) / Independent Research Project • December 2025 - Present

- Built an end-to-end computer vision pipeline for plant/flower image classification and plant disease/damage detection.
- Trained and evaluated deep learning models (YOLO for detection + CNN/EfficientNet-style classification), tracking metrics (mAP/F1/accuracy) and reducing false positives.
- Implemented a reproducible training/inference setup using structured configs (Hydra-style) and experiment logging for consistent runs.
- Delivered a clean, modular codebase (Python, PyTorch, OpenCV, Ultralytics YOLO) with documentation for easy reuse.

DevSecOps Security Assessment Tool (Docker Security Dashboard)

Personal / Open Source • github.com/noorsamer1/DevSecOps-Security-Assessment-Tool • December 2025 - January 2026

- Built a Flask-based web dashboard that automates Docker image vulnerability scanning using Trivy and produces audit-ready security findings.
- Implemented **Quick Scan 80% less time than the Full Scan** modes to balance speed vs deep analysis (vuln/secret/config/sbom/rootfs).
- Generated professional exportable security reports in **JSON / TXT / PDF** formats for compliance and security reviews.
- Developed interactive visualization dashboards (severity distribution + security scoring) and comparison views using Chart.js.
- Added hardening recommendations, CVE tracking, and severity classification (Critical/High/Medium/Low) with scan timestamp auditing.

Biometric Attendance Tracker

personal • github.com/noorsamer1/Biometric-Attendance-Tracker • May 2025 - August 2025

- Developed a **biometric access control system** using a **Raspberry Pi 4** and **R307 fingerprint sensor**.
- Implemented **fingerprint enrollment, authentication, and verification** in Python.
- Integrated **electromagnetic lock** with relay module for secure door control.
- Designed **real-time GPIO control** for lock activation and sensor feedback.
- Built a **modular system**: easily extendable for multiple users, logs, and additional sensors.
- Included **security features** like failed attempt detection and optional alert system.
- Tech stack: **Python, Raspberry Pi 4, R307 Fingerprint sensor, 5V relay, electromagnetic lock, GPIO programming**.

GarageBot – Multi-Modal AI Chatbot

Personal • February 2025 - May 2025

- Developed a **multi-modal AI assistant** integrating **vision and language models** for garage-related tasks.
- **Vision Module:** Used **YOLO** for vehicle detection, and status monitoring from images.
- **Language Module:** Integrated a **Large Language Model (LLM)** for natural language understanding, multi-turn conversations, and user guidance.
- Enabled **multi-modal interaction**, allowing users to ask questions via text and upload images for analysis.
- Built a **backend system** to handle data processing, inference, and database updates (vehicle info, service logs).
- Designed a **user-friendly web interface** for real-time chat and visual feedback.
- Achieved **high accuracy** in both object detection and intent understanding.
- Tech stack: **Python, OpenCV, YOLO, OpenRouter API, Flask, SQLite.**

License Plate Detection & Recognition system

Personal • November 2024 - February 2025

- Developed a **computer vision system** to automatically detect and recognize vehicle license plates.
- Used **image processing + deep learning (YOLO ultralytics (yolo11n)/ OpenCV)** for real-time detection and recognition.
- Implemented **OCR (Optical Character Recognition)** for accurate plate number extraction.
- Designed a **user-friendly interface** for uploading images/videos and viewing results.
- Achieved 86**% detection accuracy** and **real-time performance** on video streams, in the other hand 93**% detection accuracy** on photos.
- Applied **law enforcement use-cases with this project**.
- Optimized model for **speed & accuracy trade-off** using pre-processing and efficient model tuning.
- Deployed system on **Python + OpenCV + TensorFlow/Keras** with database integration for storing results.
- **Dataset size** (trained on 5,000+ license plate images), **Metrics** (accuracy, precision, recall, FPS speed).
- **Tech stack** (Python, OpenCV, pytesseract, YOLO, Tesseract OCR, Flask).

EDUCATION

Bachelor of Science, Data Scientist

Balqa Applied University • Amman-Al-Salt-Balqa • 2019-2023 • 3.25(Very Good)

- Graduated as part of Jordan's first cohort to earn a bachelor's degree in Data Science, ranking third in my class.
- This achievement highlights my dedication to academic excellence and my passion for advancing the field of data science.

SKILLS

Skills 1: Python, SQL, NoSQL, vector Db(Elasticsearch)

Skills 2: Plotly, NLTK, Scipy.stats, math, OpenCV

Skills 3: FastAPI, Ollama, Jupyter Notebook

Skills 4: Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn

Skills 5: Linux, JSON, PyTorch, OpenAI, Requests, Docker, DevOps

Skills 6: Microsoft Power BI, MySQL, SSMS, Kibana, Postman