

MARYAM MAKSOOR

AI Engineer
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ABOUT ME

I am an AI Engineer with a strong foundation in machine learning, natural language processing, and software engineering. My work spans production-grade LLM systems, academic instruction, and competitive programming — a combination that reflects both my technical depth and my passion for teaching and research. I am particularly drawn to the intersection of AI and healthcare, exploring how intelligent systems can improve medical decision-making, as well as to generative AI for Arabic language — a domain I believe is underserved and full of opportunity. My background in competitive programming has given me a rigorous approach to algorithmic thinking. I am pursuing graduate study to channel these interests into original research, and I aspire to collaborate with faculty working at the frontier of medical informatics, Arabic NLP.

EDUCATION

Bachelor of Science, Information Technology | Arab Private University for Science and Technology

2019 – 2024

GPA: 3.59 / 4.00 · Class Rank: 2nd in cohort · Hama, Syria

PROFESSIONAL EXPERIENCE

AI Engineer | Evolutions

Aug 2025 – Mar 2026

- **Qwen3** Built a production-grade ReAct AI agent using **vLLM** High-throughput local inference via **LangGraph** Implemented multi-step reasoning workflows using state machines orchestrating, Designed modular tool architecture enabling autonomous task decomposition and sequential tool chaining.

Instructor — Big Data & SDLC | AI Dar Academy

Jan 2025 – Mar 2025

- Taught Big Data & Visualization and Software Development Life Cycle to undergraduate students designed interactive curriculum focused on real-world application of technical concepts

Competitive Programming Coach | Arab Private University for Science and Technology

2024

- **ACPC** Led 5 teams; 3 qualified for SCPCP and 1 for guided students in critical thinking, problem-solving analysis, and team dynamics

Machine Learning Intern | SMSM AI

Mar 2024 – Jun 2024

- **Whisper** Preprocessed and analyzed audio data for fine-tuning

AI Engineer Intern | RightClick Company

2020 – 2021

- Completed AI engineering training as the youngest engineer in the company contributed to real-world AI projects in collaboration with senior engineers

RESEARCH & PUBLICATIONS

Research Publication | Hama University

2024

- "Comparison of different GPT versions and the effectiveness of ChatGPT in the medical sector"
Analyzed social and technical impact of GPT on healthcare; highlighted need for Arabic AI content

SELECTED PROJECTS

AI & NLP

- ▶ PDF Intelligent Assistant — RAG-based chatbot for PDF Q&A using advanced LLMs
- ▶ AI Customer Service Chatbot — OpenAI-powered automated response system with prompt engineering
- ▶ Audio Classification: AST vs. HuBERT — Fine-tuned and benchmarked models on Speech Commands dataset

Computer Vision

- ▶ AI Personal Trainer — Real-time workout form analysis and rep counting using computer vision
- ▶ Gesture Volume Control — Hand landmark detection for system-level control

TECHNICAL SKILLS

Languages	Python (advanced) · C++ (advanced) · SQL · R (basics)
ML / AI	TensorFlow · Scikit-learn · HuggingFace · LangChain · LangGraph · vLLM
Data	NumPy · Pandas · Matplotlib · Seaborn · OpenCV · PySpark
NLP	Transformers · Whisper fine-tuning · Arabic NLP · RAG pipelines
APIs & Cloud	FastAPI · REST API · AWS · OpenAI API

COMPETITIVE PROGRAMMING & AWARDS

- ▶ 2024 — 3rd Place, Syrian Private Universities Programming Collegiate Contest (team)
- ▶ 2023 — 2nd Place, Syrian Private Universities Programming Collegiate Contest (team)
- ▶ 2023 — 8th Place, ACPC Girls Division
- ▶ Codeforces: codeforces.com/profile/Mmak

VOLUNTEERING

Python Tutor & Mentor | [Paper Airplanes](#)

Oct 2023 – May 2025

- ▶ Mentored students online; developed structured teaching materials and communication skills

LANGUAGES

Arabic	Native
English	Advanced proficiency