

Yassin Abdulmahdi Data scientist

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 Damascus, Syria

 [Linkedin](#)

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Professional Summary

Data Scientist and Informatics Engineering graduate from Damascus University with hands-on experience in AI, machine learning, and data-driven problem-solving. Skilled at building innovative solutions, I specialize in turning complex challenges into impactful, real-world applications

Work Experience

Teaching Assistant, ASPU - Al Sham Private University

Oct 2025 – Present

- Teach Machine Learning and Information Retrieval concepts.
- Create tutorial materials and programming examples to support the courses.

Data Scientist, TruePositive

Feb 2025 – Sep 2025 | Dubai, UAE

- Performed Exploratory Data Analysis (EDA) on subscriber activity and revenue data to uncover churn drivers and usage behavior patterns.
- Delivered Drip, RFM, Growth, and GEO analyses for MTN Congo.
- Worked extensively with the SDP schema, integrating data from subscriber demographics, service engagement snapshots, bundle subscriptions, and revenue facts to create a customer view for advanced analytics.
- Built interactive dashboards with Apache Superset, giving client teams real-time visibility into KPIs and growth opportunities.
- Social Network Analysis pipeline on large-scale telecom data, reducing processing time by 90% through migration from PySpark to DuckDB.
- Collaborated on projects involving Large Language Models (LLMs).

Research And Development Engineer,

Oct 2024 – Mar 2025 | Malaysia

Rachis Systems Sdn. Bhd

- Built a federated learning framework with adaptive differential privacy and client clustering, boosting model accuracy to 98.7% on MNIST data.
- Enhanced an iris recognition system by improving accuracy and reliability.
- Applied meta-learning to optimize vehicle routing with time windows.
- Collaborated with the team to solve real-world ML problems.

Data Science Intern, SHAI For AI

Feb 2023 – Apr 2024 | Saudi Arabia

- Completed a remote data science training program at Shai for AI, focusing on machine learning, data analysis, and statistical modeling.
- Gained practical experience in applying core data science principles to real-world problems through hands-on projects.

Education

Bachelor of Science in Information Technology Engineering,

Sep 2019 – Sep 2024

Damascus University

- Relevant Coursework: Advanced Machine Learning, Computer Vision, Natural Language Processing (NLP), Data Structures & Algorithms, and Software Engineering Principles.

Skills

Python | Machine learning | Deep Learning | OpenCV | NLP | Git | Web Scraping |

Data Analysis | TensorFlow | PyTorch | SQL | Docker | RAG | Data Storytelling | Data Mining

Personal projects

FluentFlow, AI-Powered Public Speaking Coach [Bachelor's Project]

- Engineered a web app that analyzes body language, voice, and speech content, providing AI-driven feedback to improve public speaking skills.
- Integrated Mediapipe + PyTorch for gesture and gaze recognition, Librosa for voice delivery analysis, and NLTK/SpaCy/XGBoost for evaluating script coherence.
- Delivered a Flutter front-end with a Django back-end.

Github ↗ **Demo** ↗

Jigsaw Genius:, Computer Vision-Based Puzzle Solver

Developed an app using advanced computer vision algorithms to solve jigsaw and grid puzzles with high accuracy.

- Solves puzzles in real time with Python + OpenCV.
- Supports hint images to improve accuracy for complex puzzles.
- Interactive, user-friendly interface for easy navigation.
- Technologies: Python, OpenCV.

Github ↗ **Demo** ↗

Sketchy, Interactive Drawing Education System for Children

Developed a web application to improve children's drawing skills by providing real-time, AI-powered feedback. The system uses machine learning to predict and assist in the drawing process, creating an interactive and engaging learning experience.

- Predicts intended drawings and provides guidance.
- Offers completion suggestions to boost creativity and learning.
- Models used: Neural Networks, Deep Learning, KNN, RNN.

Website ↗ **Github** ↗

English Grammar Error Correction

- Created an AI system to detect and correct grammatical errors in English text.
- T5 Model Integration.
- Integrated the T5 Transformer model with an Encoder-Decoder architecture.
- Designed a simple and accessible interface for users.

Github ↗

Volunteering

Data Scientist, Omdena

AI for Alzheimer's Diagnosis (Omdena Toronto Chapter's project, 2023)

- Developed an ML model to detect early signs of Alzheimer's from brain scan images, focusing on accuracy, efficiency, and deployability.
- Contributed to model optimization, validation, and socially impactful healthcare innovation.

Conversational AI for Transportation Strikes (Omdena Ile-de-France, 2023)

- Built a chatbot to assist citizens with real-time transport alternatives during strikes in France.

Awards

ICPC - International Collegiate Programming Contest

- Ranked 19th in the 2022 Damascus University Collegiate Programming Contest.
- Ranked 12th in the 2021 Al-Baath University Collegiate Programming Contest.
- Achieved **146th place** out of 400+ participants in the 2021 ACPC Kick-off Online Individual Contest.

ICPCOD ↗