

Yassin Abdulmahdi

Data scientist

✉ yasinalmhdi8@gmail.com

☎ +963994250597

📍 Damascus, Syria

🌐 LinkedIn

🔗 Portfolio

🐙 Github

🏆 Kaggle

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

Data Scientist, TruePositive

Feb 2025 – present | 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.

AI Research Intern, In1Minute

Oct 2022 – Nov 2022 | Syria

- Participated in collaborative research initiatives, exchanging knowledge with the team to gain diverse perspectives and insights.

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

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

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.

Personal projects

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

- Developed a web application to evaluate and enhance public speaking skills, leveraging AI for feedback on body language, voice modulation, and speech content.
- Key Features:
 - Body Movement Analysis: Utilized Mediapipe and PyTorch to assess gestures, posture, and gaze for insights into non-verbal communication.
 - Voice Analysis: Applied Librosa to evaluate speech delivery, including speed, vocal variation, pauses, and filler words.
 - Script Evaluation: Used NLTK, SpaCy, and XGBoost to analyze content coherence, linguistic diversity, and structure.
- Built a seamless user experience with a Flutter-based front-end and Django-powered back-end, ensuring smooth data processing and intuitive navigation.

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.

- Puzzle Solving: Automatically analyzes and solves a wide range of puzzle images, delivering accurate solutions in real-time.
- Hint Image Support: Users can upload a hint image to improve solution accuracy, especially for complex puzzles.
- Interactive Interface: Designed a user-friendly interface for easy navigation and enhanced user experience.
- Technology: Implemented sophisticated computer vision techniques using Python and OpenCV.

Github [↗](#) **Demo** [↗](#)

Sketchy, Interactive Drawing Education System for Children

Developed an innovative 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.

- Drawing Prediction: Utilizes advanced machine learning models to predict the child's intended drawing, offering real-time suggestions and guidance.
- Completion Assistance: Provides helpful recommendations to guide children in completing their drawings, enhancing creativity and learning.

Models Utilized: Neural Networks, Deep Learning, KNN, and RNN to accurately predict and guide the drawing process.

Website [↗](#) **Github** [↗](#)

English Grammar Error Correction

The Project is a dedicated effort towards developing an efficient system for automatically detecting and correcting grammatical errors in written English text. Utilizing the powerful T5 model and implementing an Encoder-Decoder architecture.

- T5 Model Integration.
- Encoder-Decoder Architecture.
- User-Friendly Interface.

Github [↗](#)