Ahmad Debow

Damascus, Syria ✉ ahmad.debow987@gmail.com 📞 +963 993 474945 **in** ahmad-debow-496529306

⌂ eddie98-ai   ORCID: 0000-0002-3798-3624   Researchgate: Ahmad-Debow   Portfolio: Slides

⊕ Passport No: n016639391 ⚑ DOB: Oct 20, 1998 POB: Tartous, Syria ⚑ Nationality: Syrian

About Me

I am passionate about using technology to solve real-world problems, with expertise in AI, cloud computing, and development. I enjoy engaging in leadership roles, volunteering, and sports, while also conducting research in AI and data science.

Education

BSc **Information Systems Engineering /Operating Systems and Networks**, Higher Institute for Applied Sciences and Technology (HIAST) ↗, Damascus, Syria.
Final Grade: 75.65% (First Rank).
Thesis: *Deep Learning for Launching and Thwarting Attacks on AI-based Intrusion Detection Systems*: Developed a novel GAN-based method for generating polymorphic poisoning attacks on IDSs, Integrated SHAP-based feature selection to improve attack efficiency and explainability, Built a web-based dashboard for monitoring and evaluating AI-driven IDS performance.

Oct 2016 – Sep 2022

Work Experience

Lead DevOps Engineer, Maly Tech Ltd ↗
- Developed AI-powered fintech solutions using microservices on AWS and GCP.
- Implemented CI/CD pipelines, containerization, and cloud management.
- Collaborated with MTN MoMo and Deloitte through MALY-led projects.

Dubai, UAE
Oct 2023 – Present

Information Systems Engineer, Higher Institute for Applied Sciences and Technology ↗
- Assistant Lecturer for Operating Systems, Networks, and Security.
- Supervised undergraduate projects.
- contributed to the Programming Development Lab.

Damascus, Syria
Oct 2022 – Feb 2024

Data Engineer, Nextinuous
- Developed data pipelines using ELK Stack and Apache NiFi.
- Integrated recommendation systems and Dockerized services.
- Supported CI/CD infrastructure and deployment automation.

California, USA
Aug 2023 – Jan 2024

Backend Developer , DIB GmbH ↗
- Developed VoIP systems using Asterisk, MariaDB, and Docker.

Germany
Oct 2022 – Jul 2023

Assistant Lecturer , Arab International University (AIU) ↗
- Taught practical courses in Operating Systems and Linux.

Damascus, Syria
Jul 2023 – Sep 2023

Assistant Supervisor Al-Sham Private University (ASPU) ↗
- Supervised a graduation project integrating cybersecurity with machine learning.

Damascus, Syria
Jan 2023 – Mar 2023

Publications

COVID-19 Diagnosis with Deep Learning: Adjacent-pooling CTScan-COVID-19 Classifier Based on ResNet and CBAM.

Sep 2023

A. Deeb, **A. Debow**, S. Mansour, V. Shkodyrev, *Biomedical Signal Processing and Control, Vol. 86, 105285,* 10.1016/j.bspc.2023.105285 ↗

Predicting and Forecasting Water Quality Using Deep Learning.   Mar 2023

A. Debow, S. Shweikani, K. Aljoumaa, *International Journal of Sustainable Agricultural Management and Informatics, 9(2), pp.114–135,* 10.1504/IJSAMI.2023.129858 ↗

Projects

AI-Powered Sign Language & Assistive Technology.   Mar 2025 – Present
Developed a vision and NLP-based system to aid communication for the hearing and visually impaired using MediaPipe, OpenCV, and LSTMs.

Smart Recipe Recommendation System.   Dec 2024 – Feb 2025
AI-powered recommender built with Django; suggests health-conscious recipes based on user ingredients and dietary conditions like diabetes.

Explainable Movie Recommendations using Reinforcement Learning.   Jun 2024 – Nov 2024
Enhanced cold-start recommendation systems using Q-Learning, biclustering, and performance evaluation via similarity measures.

On-Prem Hosting & CI/CD Infrastructure.   Jul 2024 – Aug 2024
Built and configured a self-hosted GitLab/Jenkins CI/CD pipeline with custom DNS and IP networking on Linux.

Federated Learning for Anomaly Detection.   Jun 2023 – Aug 2023
Designed a distributed deep learning system at HIAST, improving federated aggregation in IDS anomaly detection pipelines.

TOR Network Detection via ML.   Jan 2023 – Mar 2023
Built TOR datasets and trained ML/DL models to detect encrypted traffic at ASPU.

Skills

- **Cloud Platforms:** AWS (EC2, ECS, RDS, Glue, Security Hub, etc.), Google Cloud Platform (cloud run, compute engine, etc.), Linux Server Administration, Git, Microservices, CI/CD Pipelines, Stress Testing, DNS, Gatway, Routing.

- **Data Engineering & Science:** Data Architecture, Data Cleaning & Maintenance, Recommendation Systems.

- **VoIP Engineering:** SIP, RTP, VoIP, Asterisk (PBX), Audio/Video Codecs, Data Compression.

- **Artificial Intelligence:** Deep Learning, GANs, CNNs, DNNs, LSTM, Traditional Machine Learning.

- **Programming & Tools:** Python (NumPy, Pandas, Scikit-learn, Matplotlib), SQL and non-SQL DBs, Django, JavaScript, C/C++/C, Java, TensorFlow, PyTorch, Keras, Git, Docker, HTML/CSS, Bootstrap , REST APIs, C/C++/C#, Bash Scripts.

Languages

- **Arabic:** Native proficiency.

- **English:** IELTS certified – Reading: C1, Writing: B2, Listening: B2, Speaking: B2.

- **French:** Conversant with basic reading, writing, and speaking skills.

Volunteering & Clubs

Founder & Chief, AI and Python Club — HIAST, Damascus.   Jan 2022 – Jun 2022
Led workshops and organized collaborative AI and Python-based learning sessions for university students, especially for those who did not study these subjects academically.

Founder, Chief & Judge, Chess Club — HIAST, Damascus.   Oct 2020 – Jun 2022
Established and led the college chess club, coordinating internal tournaments and practice sessions. Officiated university-level chess competitions.

Volunteer & Organizer, University Events — HIAST, Damascus.   Oct 2017 – Sep 2022
Red Crescent Volunteer (COVID-19 Response) — Tartous, Syria.   Mar 2020 – Jun 2020