

Mohammad-Jawad Ahmad

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SUMMARY

Motivated AI and Data Science specialist with a strong academic background and practical hands-on experience in machine learning, NLP, and computer vision. Develop innovative AI solutions from data scraping to model deployment. A collaborative, adaptable team player committed to continuous learning and building impactful, intelligent systems.

PROFESSIONAL EXPERIENCE

AI Engineer (Contract) | Metaseed.ai

March 2025 – Present

- Develop robust comparison scoring algorithms using custom filtering to match resumes with job descriptions, significantly enhancing application relevance and accuracy for a professional networking platform.
- Implement strict Pydantic classes and sophisticated value validators to ensure data integrity and structure, improving system reliability and preventing data inconsistencies in backend processing.
- Manage and query complex datasets using SQL and Azure Cognitive Search vector databases, optimizing data retrieval speeds and search functionality for a seamless user experience.

Data Scientist | Cog Developers

April 2024 – September 2024

- Engineered advanced data scraping solutions using APIs, BeautifulSoup, and Selenium to extract diverse information from platforms like Facebook, Amazon, and Telegram for market analysis.
- Developed and deployed a real-time news streaming pipeline from Telegram to a custom website, TeleDeck, providing users with up-to-the-minute information and event tracking.
- Integrated geolocators and semantic analyzers to classify news streams, enabling dynamic visualization on an interactive map and enhancing contextual understanding for users on TeleDeck.
- Deployed full-stack projects on A2Hosting servers, configured application routes for helper functions, established new domains, and managed server infrastructure for optimal application performance.
- Constructed interactive and insightful data visualization dashboards using Power BI, translating complex datasets into actionable business intelligence for stakeholder decision-making and performance monitoring.

Data Science Intern | Monty Mobile

March 2024 – April 2024

- Developed and trained a high-accuracy YOLOv8 model to authenticate official Lebanese ID cards, significantly improving verification speed and reducing the potential for fraudulent document activity.
- Designed and built a proof-of-concept Document AI system capable of automatically extracting key information from various governmental documents, streamlining data entry processes and reducing errors.

Freelance AI Engineer | BTSCO

August 2023 – November 2023

- Spearheaded the development of a sophisticated Document AI tool by meticulously labeling data with LabelImg and training advanced models for highly accurate automated data extraction.
- Constructed a versatile document classification system designed to intelligently sort and categorize various document types, enhancing organizational efficiency for a multipurpose enterprise software system.
- Fine-tuned machine learning models using Optuna, an automatic hyperparameter optimization framework, to significantly boost model performance, accuracy, and overall predictive power for client projects.

EDUCATION

Master of Science in Artificial Intelligence | Saint Joseph University of Beirut (USJ)

July 2025

- Graduated with a GPA of 3.5/4 and an A+ on the Master's Thesis.

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| BS in Computer Science, Data Science University of Science and Arts in Lebanon (USAL) | July 2023 |
| <ul style="list-style-type: none"> Graduated with a GPA of 3.7/4, ranked 2nd in the major, and placed on the Dean’s Honor List every semester. President of the Computer Science Club, which won USAL’s Best Club Award in 2023. Earned the Majis M Scholarship at USJ for academic excellence. Delivered workshops including Data Science Unveiled (invited by GDSC) and Data Analytics & Preprocessing for Computer Science students, sharing practical skills and hands-on learning experiences. | |

PROJECTS

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| Crop Anomaly Detection from Satellite Imagery | May 2025 |
| <ul style="list-style-type: none"> Researched and implemented a system for crop anomaly detection using satellite imagery, focusing on deforestation and drought, developing a data fetching tool and POC models. Technologies Used: Python Geographic Information System (GIS), Geospatial Libraries. | |
| MLOps Pipeline Integration | December 2024 |
| <ul style="list-style-type: none"> Developed a complete machine learning pipeline with MLOps integration, including data loading, preprocessing, training, and evaluation, wrapped with MLflow, Prometheus, Docker, and CI/CD automation. Technologies Used: MLflow, Prometheus, Docker, GitHub Actions, Poetry. | |
| Multi-Service Orchestration with Kubernetes | May 2024 |
| <ul style="list-style-type: none"> Built and deployed a network of three services using Docker Compose and orchestrated with Kubernetes, integrating GCP OCR, GPT API, and authentication service, with full version control on GitHub. Technologies Used: Docker Compose, Kubernetes, GitHub, GCP OCR, GPT API. | |

EXTRA-CURRICULAR ACTIVITIES

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| President at Binary Brains – Led club for skill-building and networking | March 2022 – June 2023 |
| Beirut AI Ambassador – Organized AI educational community events | February 2022 – March 2024 |
| Arduino Instructor, Kalimat – Taught Arduino programming and basic robotics | July 2022 – September 2022 |
| OOP Lab Assistant – Assisted students in practicing OOP fundamentals | February 2024 – May 2024 |

TRAINING AND CERTIFICATE

- Completed training with DataCamp in January 2025, covering Introduction to Python, Intermediate Python, Understanding Data Science, Introduction to R, and Understanding Data Visualization.
- Attended workshops and professional events, including Semantic Analysis, Cloud Management (AWS User Group), Transforming Education with ChatGPT and AI Tools (PCA), Robots Replacing Doctors (LU Medical Festival, Google Developers, CS LU Club, and Beirut AI). 2022–2023.

SKILLS

Technical Skills: Python, SQL, R, Docker, Kubernetes, Git, Google Cloud Platform, Microsoft Azure, MLOps, TensorFlow, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Data Scraping, Data Engineering, Time Series Analysis, Power BI, QGIS, Vector Databases, CI/CD, APIs, RESTful APIs, Pydantic.

Soft Skills: Communication, Problem Solving, Strategic Planning, Teamwork, Time Management, Adaptability, Analytical Skills, Collaboration, Organization, Attention to Detail, Mentorship, Reporting, Critical Thinking.

LANGUAGES

Arabic (Native), **English** (Fluent).