

Madyan Alammari

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GitHub: github.com/MadyanAlammari | Portfolio: madyanalammari.github.io

PROFESSIONAL SUMMARY

Data Analyst | AI & Machine Learning | Python • SQL • Power BI | Data-Driven Insights

Computer Science professional (GPA 4.9/5) with hands-on experience in data analytics, machine learning, and digital transformation. Skilled in data wrangling, predictive modeling, statistical analysis, and ETL processes. Proven ability to analyze large-scale datasets, build ML models, develop dashboards, and deliver actionable insights using Python, SQL, and Power BI.

EDUCATION

- Bachelor of Science in Computer Science – King Abdul Aziz University** 2021 – 2026
- GPA: 4.9/5** | First-Class Honors with Distinction | Excellence Certificate (5 consecutive academic years)

WORK EXPERIENCE

- Business & Financial Data Assistant (Part-Time) – Al Saadah Gold & Silver** Jan 2026 – Apr 2026
Analyzed sales and revenue data to identify pricing trends and support data-driven business decisions
- Data Analytics & Data Science Intern – Deanship of IT, King Abdulaziz University** Jun 2025 – Aug 2025
Performed data cleaning, EDA, and built interactive Power BI dashboards to deliver KPI insights to stakeholders.
Tools: Python, Power BI, Excel
- Digital Transformation Intern – Petromin Corporation** May 2025 – Jun 2025
Delivered AI tool training to 900+ employees across departments, covering 50+ AI productivity tools.
- Academic Explainer (Freelance) – Bravo Me Educational Platform** Jan 2024 – Present
Simplified complex technical concepts using adaptive teaching methods for diverse learners.

PROJECTS

- AuditAI – AI-Powered External Auditor (Senior Capstone Project)**
Built an AI auditing system automating VAT validation, duplicate detection, AR/AP reconciliation, and OCR invoice matching. Tested on 500+ real invoices with a 96.6% match rate and deployed as a full web application with dashboards and authentication.
Tools: Python, Pandas, OCR/Tesseract, OpenCV, pdfplumber, NumPy, Supabase, JavaScript [View on GitHub](#)
- Student Outcome Prediction – ML Classification Model & Power BI Dashboard**
Built a machine learning model using 32K+ student records and 10M+ activity logs to predict student outcomes. Applied feature engineering and SMOTE balancing, achieving 85% accuracy with Random Forest, and deployed a real-time Streamlit prediction app.
Tools: Python, Scikit-learn, Pandas, NumPy, SMOTE, Streamlit, Google Colab, Power BI [View on GitHub](#)
- Flight Delays Analysis & Interactive Dashboard**
Analyzed 5.8M+ flight records; performed feature engineering and built Power BI dashboards to surface delay patterns and KPIs.
Tools: Python, Power BI, Excel [View on GitHub](#)
- University Library Database Design – ER Diagram, 3NF Normalization & SQL Implementation**
Designed a normalized SQL database with 10+ tables, 15+ relationships, ERD modeling, 3NF normalization, and advanced SQL queries.
Tools: SQL Server, SQL, ERD, 3NF Normalization [View on GitHub](#)

COURSES & CERTIFICATIONS

- Advanced AI – CNNs & Computer Vision – KAUST Academy [View Certificate](#) Feb 2026 (40 hrs)
- Introductory Artificial Intelligence (NTDP) – KAUST Academy [View Certificate](#) Jan 2026 (40 hrs)
- Academic Track Certificate – Artificial Intelligence – King Abdul Aziz University Jan 2026
- Academic Track Certificate – Advanced Programming – King Abdul Aziz University Jan 2026
- Certificate of Excellence – GPA Honor for 5 consecutive academic years (2021–2026)

TECHNICAL SKILLS

Programming: Python, Java, SQL

Data & BI Tools: Power BI, Excel (Advanced), Google Colab, SQL Server

AI / ML: Scikit-learn, Random Forest, Logistic Regression, SMOTE, GridSearchCV, CNN, Computer Vision, OCR/Tesseract, OpenCV

IDEs & Tools: Visual Studio, NetBeans IDE, Streamlit, Microsoft Office Suite

Key Skills: Data Analysis, EDA, Feature Engineering, Data Visualization, Dashboard Development, Business Intelligence

SOFT SKILLS

- Leadership • Teamwork • Communication • Problem-Solving • Social Intelligence • Time Management • Analytical Thinking

LANGUAGES

- Arabic (native) • English (Professional)

VOLUNTEERING

- Administrative Supervisor – Rasa Volunteer Team** Jun 2025 – Present
Led administrative operations and coordinated planning for volunteer team activities and events.