

Fatmah Merghelani

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SUMMARY

Computer Science graduate with hands-on experience in data analysis, visualization, and AI projects. Experienced in using dashboards and analytical tools in a tech partnership role to support data-driven decisions. Passionate about transforming data into actionable insights and continuously learning to apply AI for real-world problem solving

EDUCATION

07/2019 – 06/2024 **Bachelor degree in Computer Science, Taibah University** Madinah, Saudi Arabia
- GPA : 4.53 / 5.00

PROFESSIONAL EXPERIENCE

04/2025 – 12/2025 **Technology Partnerships Development Specialist, Tahcom**

- **Negotiated** partnership agreements, including NDAs, MoUs, and commercial contracts (reseller & distribution).
- **Managed** regional and international **technology partners**, ensuring **effective collaboration** and **issue resolution**.
- **Coordinated** with **cross-functional teams** (business, technical, legal) to drive **partnership execution**.
- **Led partner onboarding**, handling **documentation, follow-ups, and alignment** on next steps.
- **Contributed to solution discussions** through **demos, evaluations, and client-fit analysis**.
- **Managed 18+ partners, supported 26+ strategic partnerships, and tracked pipeline and enablement initiatives.**

PROJECTS

04/2025 – 05/2025 **Smart Job Recommendation System – Capstone Project (NLP-based), Capstone Project for AI & ML Bootcamp**

- Processed and transformed unstructured job data using **TF-IDF** for analysis and feature extraction.
- Built regression models to generate **data-driven job and salary insights** and improve recommendation relevance.

09/2024 – 11/2024 **Murib - An AI-based Arabic Grammar Parsing Mobile Application, Sdaia Allam Hackathon Project**

- Designed and structured a dataset of **1,292 sentences across 22 linguistic categories**, improving input data quality.
- Applied RAG and prompt engineering, analyzing outputs to enhance **accuracy and consistency of results**.

10/2024 **Your License –AI-based Driver Readiness Evaluation System, Capstone Project for Data Science & AI Bootcamp**

- Analyzed and preprocessed image datasets to ensure **data quality and reliability** for model training.
- Evaluated YOLO model performance using accuracy metrics to support **data-driven decision-making**.

2023 – 2024 **Esharati - A Machine Learning-based Mobile Application for Saudi Sign Language Learning and Recognition** [🔗](#), Bachelor Degree Graduation Project

- Collected, cleaned, and structured a **48K+ image dataset**, performing EDA to improve data quality and class balance.
- Built and evaluated ML models (Random Forest, SVM), achieving **100% accuracy** and enabling real-time data-driven predictions.

BOOTCAMPS/COURSES

07/2025 **AI Program Essential Course, Saudi Digital Academy (SDA) & netSEED** Online
Completed a 40-hour training covering Python for data manipulation, ML basics, generative AI, and Azure Fundamentals.

04/2025 – 05/2025 **Practical AI & ML for Professionals, New Haven University & MCIT & Taibah vally** Madinah, Saudi Arabia
Completed a 4-week intensive course on Python for ML, neural networks, computer vision (CNNs), NLP, and LLMs, with hands-on projects applying skills to real-world use cases.

08/2024 – 11/2024 **Data Science & AI Bootcamp, Saudi Digital Academy (SDA) & Le wagon** Riyadh, Saudi Arabia
Completed a 12-week intensive bootcamp, gaining hands-on experience in data analysis and visualization, ML & DL, Data Engineering & Deployment.

TECHNICAL SKILLS (TECHNOLOGIES AND TOOLS)

Programming Languages

Python, Java, SQL

Data Analysis & Visualization

NumPy, Pandas, Matplotlib, Seaborn, Plotly, Tableau, Statsmodels

AI & Machine Learning & AI

Scikit-learn, TensorFlow, Keras, PyTorch, HuggingFace Transformers, OpenCV

Data Engineering & Cloud

GCP, IBM Cloud, Streamlit, SQLite, MySQL, DBEaver

Version Control & Collaboration

Git, GitHub

SOFT SKILL

10/2024 **Soft Skill Training Program, Saudi Digital Academy (SDA) & Dale Carnegie**

- Effective communication, presentation & email etiquette
- Negotiation & time management & Critical thinking

LANGUAGES

- Arabic (Native)

- English (Fluent)

- Japanese (Conversational)

CERTIFICATES

- CompTIA Data+

- Network Security (ISC)² (Coursera) [🔗](#)

- Ethical Hacking Essentials (EHE) – EC-Council (Coursera) [🔗](#)