YOUSSEF MOHAMED ABDELKARIM

Machine Learning | Data Science | AI
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PROFESSIONAL SUMMARY

Data Science & AI-focused Computer Science undergraduate with hands-on experience across Machine Learning, Data Analytics, and LLM applications through 7+ internships. Adept at building predictive ML pipelines, extracting actionable insights from complex datasets, and applying data-driven strategies to bridge technical and business objectives. Complemented by 3+ years of entrepreneurial experience in digital marketing, successfully scaling an independent e-commerce brand to 1,400+ followers through targeted audience engagement.

WORK EXPERIENCE

CEO & Founder | Retzy.eg — Online Clothing Store ***Jun 2023 – Present***
- Founded and scaled an online clothing store to 1,400+ Instagram followers through targeted content and campaigns.

Machine Learning Engineer | Digital Egypt Pioneers Initiative (DEPI) ***Jul 2026 – Present***
- Developed end-to-end ML pipelines and evaluated predictive models using Python, optimizing data preprocessing workflows and model performance across applied projects.

Summer Intern | ALEXBANK ***Jul 2026 – Jul 2026***
- Co-designed the technical architecture and pitch deck for ALEX-Gensave, an automated micro-saving solution with a functional web simulator.

Technical Support Intern | BottleTech ***Oct 2025 – Dec 2025***
- Developed AI-powered chatbots and converted prospects into paying subscribers through live technical demos.

Machine Learning Intern | Generative Technology Center (GTC) ***Sep 2025 – Oct 2025***
- Built predictive ML pipelines (Python, Pandas, Scikit-learn); improved model accuracy by 12% via hyperparameter tuning.

Data Analytics Intern | NTI ***Aug 2025 – Sep 2025***
- Cleaned and analyzed datasets; built visual dashboards improving reporting clarity for the analytics team.

Summer Intern | CIB (Commercial International Bank) ***Jul 2025 – Aug 2025***
- Gained hands-on exposure to banking operations and financial services through a structured internship program.

PROJECTS

Diabetes Prediction Model [GitHub]
- End-to-end ML pipeline (SVM, Logistic Regression, Stacking Ensemble) with SHAP & LIME explainability for non-technical stakeholders.

Movie Recommendation System [GitHub]
- Streamlit app using Collaborative Filtering & SVD; integrated TMDb API for real-time movie metadata.

AI Financial Advisor [GitHub]
- LLM-powered web app using Llama 3 (Groq API) & LangChain to analyze budgets and generate personalized financial plans.

EXTRACURRICULAR ACTIVITIES

Hype Maker — Marketing Team | ALX Voltra (ALX Egypt) ***Apr 2026 – Present***
- Created social media content and built community around ALX Voltra's mission through storytelling and event coverage.

Social Media Member | YLY — Ministry of Youth & Sports ***Aug 2025 – May 2026***
- Designed graphics and edited short-form videos; co-developed digital campaigns reaching 10,000+ nationwide viewers.

Graphic Designer | TEDxAOU ***Nov 2025 – Present***
- Designed high-quality visual assets and branding materials for campus events following TEDx guidelines.

SKILLS

Languages & Tools: Python, SQL, C++, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Power BI, Tableau, Streamlit, Git, TensorFlow, Keras, Excel, Jupyter
Machine Learning: Model Training, Feature Engineering, Hyperparameter Tuning, Deep Learning, SHAP/LIME, Statistical Analysis
Soft Skills: Data Storytelling, Technical Presentation, Cross-functional Leadership, Stakeholder Management, Critical Thinking, Time Management.

EDUCATION

Bachelor of Computer Science — Arab Open University (AOU) ***Sep 2024 – Jun 2028***
In partnership with The Open University (OU), UK

CERTIFICATIONS

IBM (ML with Python, Deep Learning with Keras) • **Sprints x Microsoft** (AI & ML Foundations) • **NVIDIA** (Deep Learning) • **Cisco** (Data Science, Modern AI) • **Google & Banque Misr** (Digital Marketing) • **AWS Academy** (Data Engineering) • **Microsoft & LinkedIn** (Data Analysis Essentials)