Mohamed Elbireir

AbuDhabi, UAE | mdad.alwathig@gmail.com | +971503124043

[linkedin.com/in/mohamedahmed-elbereir-249smaa](https://linkedin.com/in/mohamedahmed-elbereir-249smaa) | [github.com/mdad-elech](https://github.com/mdad-elech)

# Professional Summary

Data Scientist and Cloud Engineer with expertise in **data extraction**, **predictive modeling**, and **data visualization**, leveraging Python, SQL, and BI tools to drive strategic decision-making. Proficient in developing **data pipelines**, conducting **statistical analysis**, and creating interactive dashboards. Experienced in collaborating with cross-functional teams to deliver actionable insights and ensure **data integrity**. Strong background in **machine learning** and analytics, with a focus on ethical AI implementation and process optimization.

# Education

**University of Khartoum** Aug 2015 - Aug 2022

Bachelor in Electrical and Electronic Engineering – Khartoum, Sudan

# Experience

**IT Consultant** Jan 2024 - Present

FaceOne Engineering Consultants, *Abu Dhabi, UAE*

* Built and optimized data pipelines using Python and SQL to support AI-driven decision-making.
* Managed Azure-based cloud infrastructure for data storage, processing, and AI model deployment.
* Utilized OCR (Tesseract) to extract insights from scanned documents, enhancing data completeness.
* Developed machine learning models for housing demand analysis, leading to data-driven recommendations.
* Designed interactive dashboards using PowerBI, Matplotlib, and Seaborn for real-time insights.
* Collaborated with stakeholders to align AI solutions with business needs, ensuring ethical AI implementation.

**E-Learning Consultant** Aug 2022 - Apr 2023

UNICEF, *Khartoum, Sudan*

* Collaborated with software development teams to test and debug educational software, ensuring cross-platform functionality.
* Led the implementation of e-learning systems in 9 states in Sudan, engaging with state ministries and community representatives.
* Integrated EMIS frameworks to streamline data collection, analysis, and reporting for educational institutions.
* Designed and delivered technical capacity-building workshops for Ministry of Education personnel.
* Managed configuration of educational tablets, including data integration and solar-powered solutions.
* Conducted impact assessments and data-driven evaluations for e-learning centers, refining strategies to improve student engagement.

**E-Learning Intern** June 2021 - Dec 2021

UNICEF, *Khartoum, Sudan*

* Contributed to the development of Sudan’s first Digital E-Learning Platform, creating over 1,000 interactive learning games.
* Analyzed platform usage and engagement data, providing actionable insights for design enhancements.
* Collaborated with Microsoft engineers to optimize platform performance, including A/B testing for interface design improvements.
* Presented statistical insights to telecommunications partners, securing funding and technical support for platform expansion.

# Technical Skills

* Programming Languages: Python, SQL, JavaScript, C++, HTML, CSS
* Data Analysis Tools: R, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, PyTorch, PowerBI
* Cloud Technologies: Amazon Web Services, Microsoft Azure, Google Cloud Platform
* Data Management: Data Pipeline Development, ETL Processes, Data Integration, Data Pipeline Management
* Project Management: Stakeholder Communication, Goal-Setting, Milestone Management

# Projects

**Analyze Brand Activity**

* Developed a comprehensive analysis of brand performance and consumer engagement using advanced analytics and visualization tools.
* Leveraged Python, machine learning models, and interactive dashboards to extract actionable insights and track market trends.
* For more details, see the project on LinkedIn: [Analyze Brand Activity](https://www.linkedin.com/posts/mohamedahmed-elbereir-249smaa_analyze-brand-activity-7260458691991117825-pGM3)

# Certifications

**Certified AWS Solutions Architect:** Expertise in cloud infrastructure design and optimization (2024)

**IBM Data Science:** Hands-on experience in Python, SQL, machine learning, and data visualization with real-world projects (2024)

**Politics and Ethics of Data Analytics:** Understanding of data governance, ethical AI, and responsible data-driven decision-making (2024)

# Languages

* English: Professional Proficiency
* Arabic: Native Speaker