Mohamed Elbireir

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

linkedin.com/in/mohamedahmed-elbereir-249smaa | 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

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