

Obai Gasmalla

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Education

Artificial Intelligence MSc
University of West London, United Kingdom
Grade: Distinction (First Class)

Electrical Engineering BSc (Hons)
Sudan University of Science and Technology, Sudan

Certificates

[AZ-900 Azure Fundamentals](#)
[ITIL 4 Professional Certification](#)
[IBM's Analysing Data with Python](#)
[IBM's Python Basics for Data Science](#)

Technical Skills

Programming Languages: Expert in Python. Proficient in R, Java, SQL, C#, and .Net.

Cloud Computing: Databricks, Microsoft Azure Cloud Platform and Amazon Web Services (AWS).

Machine Learning: Proficient in machine learning frameworks and tools; experience in statistical analysis, NLP, and data visualisation.

Version Control: Git, Github, Azure DevOps.

Other Skills: Stakeholder Engagement and Project Management.

Work Experience

WSP – London, United Kingdom

Assistant Data Consultant

Jul 2024 - Present

Data Consultant in the Intelligent Infrastructure department. Working in projects centred on machine learning, and data engineering. My role involves forecasting, handling large datasets, statistical analysis, and stakeholder engagement. Primary tools of expertise include Python, R, Power BI, and the Azure cloud solution.

- Leading the design and implementation of a technical ETL pipeline for asset transformation, utilising Databricks and Azure cloud computing solutions.
- Contributing as a Data Engineer to support Transport for Wales (TfWRL) commercial analytics and service performance integration into the Azure cloud platform, designing, implementing, and deploying scalable solutions.
- Contributing to projects centered on machine learning, data engineering, and cloud computing in the Intelligent Infrastructure department.

Graduate Data Consultant

Oct 2022 - Jul 2024

- Developed an NLP-based pipeline for Network Rail Structures' Assets Transformation Project, automating data processing and optimising workflows.
- Designed and implemented data pipelines for transportation data analysis as a Data Engineer for Transport for West Midlands (TfWM).
- Managed data-related challenges and provided insights as a Data Analyst/Business Analyst for National Highways.

Publications

- Musa, M., Gasmalla, O., et al (2024). Distributed Geospatial Information Systems Challenges and Opportunities. In *Exploring Remote Sensing - Methods and Applications* (Accepted)

Projects

Northern Powergrid – Newcastle University

Unveiled patterns and insights within electricity distribution networks to propose a forecasting model for energy demand as part of the Turing Institute Data Study Group. Collaborated with the network's operational architects, using Jupyter Notebooks and GitHub.

Languages

English (Fluent), Arabic (Fluent).

Interests

Reading and coding challenges.

References

References will be provided on request.