

Aya Salim

Cleveland, Ohio, USA ayahashim16@gmail.com 440 452 7242 LinkedIn: [Aya Salim](#) Portfolio: [ayahashim](#)

Experience

Stellenbosch University, Teaching Assistant July 2024 – Nov 2024

- Assisted in teaching Numerical Methods to undergraduate students.

Ericsson, RAN Solution Architect Dec 2020 – Feb 2023

- Analysed telecom network data using Excel and delivered actionable recommendations that improved network performance for multiple clients.
- Designed dashboards in Tableau for visualising KPIs and trends across Sudan, Kuwait, and Bahrain.
- Created network optimization solutions by combining data analysis with engineering expertise.

Projects

Improving Machine Translation of Arabic Dialects [View Project](#)

- Applied unsupervised domain adaptation and back-translation to improve translation accuracy for low-resource dialects.
- Part of this project is presented this project at **NeurIPS 2023** (WiML) workshop.
- Tools: Excel, Python, Pandas, NumPy, PyTorch, Matplotlib, Seaborn.

Detecting phishing websites using machine learning [View Project](#)

- Links are extracted from a website and classified using Four classification models (Logistic Regression, SVM, Random Forest and LSTM).
- Achieved higher accuracy with LSTM compared to classical models.
- Presented this project at the ICCCEEE conference and the paper is published at [IEEE Xplore](#).
- Tools: Python, Pandas, Numpy, Tensorflow and scikit-learn

World Layoff Data Cleaning [View Project](#)

- Cleaned world layoffs dataset by removing duplicates, standardizing the data, exploring Null or blank values and removing unnecessary columns or rows. Then, explored the data using SQL.
- Skills: Data Cleaning, Data Exploration, and Data Analysis.
- Tools: SQL, MYSQL.

Cyclistic Bike-Share Analysis (Google Data Analytics Capstone) [View Blog](#)

- Cleaned, manipulated, and visualised bike-share trip data to compare casual vs. member rider behavior.
- Recommended strategies to increase membership based on insights.
- Tools: R, ggplot2, dplyr, visualization.

Skills

Languages: Python (Pandas, NumPy, PyTorch, Tensorflow , Keras, sickit-learn), R, SQL, Excel.

Data Analysis: Statistical modeling, regression, classification, PCA, hypothesis testing, A/B testing

Machine learning: Optimization, Natural language processing, Computer vision, Transformers.

Visualization tools: Matplotlib, Seaborn, ggplot2, Tableau, Power BI tool.

Education

Stellenbosch University, MSC Applied Mathematics (Machine Learning) Mar 2023 – Dec 2024

- Awarded **Google DeepMind** two-year master's Scholarship, including mentorship and exclusive event access. Graduated with distinction.

University of Khartoum, BS Electrical Engineering (Software Engineering) Oct 2014 – Oct 2020

- Graduated with First class. The final GPA is 8.98/10.0, and the cumulative GPA is 8.51/10.0.

Coursera, Google Data Analytics Professional Certificate July 2025