

# Aya Salim

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## Education

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**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.

## Experience

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**Stellenbosch university**, Teaching Assistant

South Africa, Stellenbosch

- Assisting in teaching Numerical methods through tutorials.

July 2024 – Nov 2024

**Ericsson**, RAN Solution Architect

Khartoum, Sudan

Dec 2020 – Feb 2023

- Analyse Customer's network using Excel by deploying different audits and providing useful insights for them to help enhance their network.
- Create presentations and dashboards using Tableau for customers based on the analysed radio data.
- Building radio, power and site materials solutions and analysing networks for different operators in Sudan, Kuwait and Bahrain using Excel.

## Projects

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**Improving Machine Translation of Arabic Dialects**

[View Project](#)

- Developed and improved machine translation for unlabelled dialects using unsupervised domain adaptation and backtranslation techniques.
- Part of this project is presented this project in the **NeurIPS conference 2023** at the women in machine learning 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), where different features are extracted from URL.
- LSTM outperforms classical machine learning models.
- Presented this project at the ICCEEE conference and the paper is published in [IEEE Xplore](#).
- Tools: Python, Pandas, Numpy, Tensorflow and scikit-learn

**Cyclistic Bike-Share Analysis**

[View Blog](#)

- This project is part of the Google Data Analytics certificate.
- Bike Share dataset is cleaned, manipulated, organized, analyzed and visualized to understand the behaviour of casual and member riders.
- The goal is to convert casual riders to members. Key findings and recommendations are reported.
- Tools: R.

## Technologies

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

**Machine learning:** Regression, Classification, PCA, Optimization, Statistics, Natural language processing, Computer vision, Transformers.

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