

Professional Summary

Motivated data scientist with a Bachelor's degree in Mathematics and Computer Science and 5 years of experience in IT support and technical problem-solving. Skilled in data analytics, machine learning, and data visualization, with a strong foundation in Python, SQL, and data storytelling. Completed the Google Data Analytics Professional Certificate and developed a sentiment analysis project using Sudanese and English language datasets. Adept at building predictive models and turning complex business problems into actionable insights. Eager to contribute to innovative, data-driven teams and create real-world impact through data science.

Skills

- Programming & Tools:** Python, SQL, R (basic), Git, Excel, Google Sheets
  - Data Handling:** Data Cleaning, Wrangling, Feature Engineering, EDA
  - Visualization:** Tableau, Matplotlib, Seaborn
  - Natural Language Processing:** Text Preprocessing, TF-IDF, Sentiment Analysis (Arabic & English)
- Machine Learning:** Supervised & Unsupervised Learning, Model Evaluation, Hyperparameter Tuning, scikit-learn
  - Other:** IT Troubleshooting, System Admin, Networking
  - Soft Skills:** Problem Solving, Analytical Thinking, Team Collaboration, Technical Communication

Projects

- DIABETES PREDICTION WITH MACHINE LEARNING –GitHub–Personal Project

2025

  - Explored and analyzed a public diabetes dataset to understand key trends and feature relationships
  - placed zero values in features (e.g., Glucose, BMI) with the column mean to address missing data
  - Applied **oversampling** techniques to balance class distribution and improve model performance
  - Performed feature scaling and trained multiple models including Logistic Regression, SVM, and Random Forest
  - Achieved a model **accuracy of 88%** and visualized results using confusion matrix and ROC curves
- SENTIMENT ANALYSIS ON MOBILE APP REVIEWS –GitHub– Personal Project

2024

  - Conducted sentiment analysis on 6,000+ mobile app reviews in **Sudanese Arabic and English**, using real-world user data from a local banking app
  - Used **Python** (Pandas, NLTK, scikit-learn) for data cleaning, preprocessing, and feature extraction (TF-IDF)
  - Built and compared multiple **machine learning models** (SVM, Random Forest, Logistic Regression), achieving **97% accuracy**
  - Visualized most common words, sentiment trends, and model results using **Matplotlib** and **WordClouds**

Work Experience

- IT SUPPORT SPECIALIST– Pemeco Industrial Supplies Co. Ltd (HILTI Agent) – Khartoum, Sudan

Feb 2018 - Apr 2023

  - Provided comprehensive hardware, software, and network support to users across departments
  - Diagnosed and resolved system issues, reducing downtime by 25% through proactive maintenance
  - Collected and analyzed incident logs to identify recurring problems and propose process improvements
  - Maintained system documentation and IT asset inventories for audit and compliance purpose
- MATHEMATICS TEACHER– Private Tutoring– Cairo, Egypt

Jun 2023 - May 2025

  - Taught mid school-level students mathematics covering topics such as algebra, geometry, and statistics
  - Developed personalized lesson plans to suit various learning levels and improve understanding
  - Used real-life examples and visual aids to explain complex concepts
  - Mentored students and assessed their performance using data-driven methods and structured feedback
  - Promoted analytical thinking and built strong communication skills through student engagement and tutoring

Education

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**BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHAMTICS** – University of Khartoum

GPA: 3.02 | Second Class Upper

Majors: Probability & Statistics, Linear Algebra, Data Structures & Algorithms, Databases

Mar 2023

Certifications

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**GOOGLE DATA ANALYTICS PROFESSIONAL CERTIFICATE** – Coursera

Nov 2023

- Gained proficiency in data cleaning, SQL queries, data visualization, R basics, problem-solving, and data storytelling

Languages

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**Arabic:** Native  
**English:** Professional  
**German:** Upper-Intermediate