

Ahmed Salim

Data Scientist

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EDUCATION

M.Sc. in Data Science – University Technology Malaysia, Johor Bahru, Malaysia

MAR 2024

B.Eng. in Electrical and Electronic – Future University, Khartoum, Sudan

MAY 2018

SKILLS

- **Programming:** Python (Scikit-learn, TensorFlow, Keras, Beautiful Soup, PyTorch, PySpark, NumPy, Pandas, Matplotlib)
- **Database:** SQL (PostgreSQL, MySQL, SQL Alchemy, SQLite), NoSQL (MongoDB)
- **Data Visualization:** Power BI, Tableau, Looker Studio
- **Mathematics:** Algebra, Probability, Statistics
- **Machine Learning:** EDA, Regression, Classification, ANN, CNN, NLP, Computer Vision, Deep Learning
- **Web Development:** HTML, CSS, Flask, FastAPI, Django
- **Others:** Docker, Git, MLOps, Excel, LaTeX

EXPERIENCE

Machine Learning Intern, Remote

JULY 2024 - PRESENT

STEM-Away

- Led a team of seven to predict associations between genes from the Protein-Protein Interaction database and a disease from the Open Target Platform. We implemented graphs for both datasets using NetworkX library and composed them to extract positive and negative edges.
- Experimented multiple algorithms for node embeddings to capture graph structure and created edge features from these embeddings, implemented various machine learning models for predictions.

RELEVANT PROJECTS

Multi-Task Human Action Recognition

Sep 2024

- Developed a multi-task functional model for two tasks. To classify actions across 40 classes (multi class), and to determine if more than one person is in the image (binary). The project uses various pretrained architectures with options for fine-tuning and adjusting trainable layers, with output layers configurable as separate or combined branches.

BRATS-Image-Segmentation

Aug 2024

- Created a pipeline for 3D medical image preprocessing that includes N4 Bias Field Correction, cropping, and normalization. It features a U-Net model enhanced with Residual Atrous Spatial Pyramid Pooling (RASPP) and attention gates, for effective brain tumor segmentation.

Text-to-SQL App with Google Gemini Pro

JUL 2024

- Built a Text-to-SQL app that converts natural language to SQL using Google Generative AI (Gemini Flash). Integrated the app with a relational database containing ten tables, allowing non-technical users to retrieve results from the database. The app was deployed using Streamlit

Leaf ImageOps-Augmentation-Segmentation-Classification

FEB 2024

Research thesis

- Developed a web interface for plant disease detection, incorporating image segmentation and classification, and achieved 99.44% accuracy.
- Implemented FastAPI backend processes utilizing computer vision techniques for image segmentation with pretrained vision transformer and employed TensorFlow's sequential model for image classification.

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals
- Data Analytics Full Reskilling Program, (AirAsia Academy)
- Machine Learning by Andrew Ng, Coursera

JAN 2023

DEC 2022

MAY 2020

ACHIEVEMENTS

- Top performer at Level 1 of the 2023 EY Open Science Data Challenge

MAY 2023