

# Osama Ahmed Mohamed Amer

Data Analyst

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Final-year Bioinformatics student at the Faculty of Computer and Information Science skilled in data analysis with SQL, Python, and Excel. Proficient in machine learning and deep learning Projects, seeking a Data role to deliver actionable insights.

## Education

**University of East London & Ain Shams University**

2020 - Jul 2025 (Expected)

**Bachelor's** degree at Bioinformatics and Information science

## Projects

**Brain tumor Detection and Staging**

Sep 2024 - Present

- Pre-processed MRIs Images and trained EfficientNetB3 to detect and stage brain tumour's (99% val. accuracy) and apply segmentation model for determine the location and the size of the tumor. Deployed as a Flask app for real-time upload and prediction.

**Animal Kingdom Classification**

May 2024 - Jul 2024

- Built a TensorFlow/Keras pipeline with real-time augmentation (flips, rotations, brightness) and balanced 18 classes via oversampling. Fine-tuned VGG19 and Mobile Net backbones scripted end-to-end CSV submission (collage / Kaggle).

**Bike Sales Analysis & Dashboard**

Dec 2023 - Jan 2024

- Interactive Bike Sales Dashboard: Processed 1,000 records in Excel (IF, VLOOKUP, pivots) and created dynamic charts, slicers, and filters to analyse sales by age, region, and income.

## SQL COVID-19 Data Analysis

May 2024 - Jul 2024

- Developed T-SQL queries (CTEs, window functions, temp tables, views) to analyse country-level infection/death rates, population impact, and vaccination rollouts.

## Nashville Housing Data Cleaning

Feb 2025 – Jul 2025

- In T-SQL, converted sale timestamps to dates, filled missing addresses, split address and owner fields into separate columns, normalized Y/N flags, removed duplicates, and dropped unused columns.

## Spotify App Clone

- Built new features and generated crystal reports for a Spotify-like platform using C++ and .Net.

## Tazkarty: Oracle APEX Ticketing

- Developed an Oracle APEX ticketing system with a PL/SQL database, interactive master-detail views, triggers, and reporting.

## Languages

Arabic, English (upper intermediate)

## Core Skills

### Languages

- Python
- SQL
- R
- C++

### Data Analysis & ML

- Data Wrangling: Pandas, Excel
- Statistical Analysis & EDA
- Machine Learning: scikit-learn, TensorFlow
- Deep Learning & Transfer Learning

### Tools & Platforms

- Power BI
- Tableau
- Jupiter/Collab
- Git
- Docker