# 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

## Certifications & Training

- **Potentai's Summer Training 2024 (4 Week Big Data Workshop**
  - As part of the first-place "No Vision" team, built a PySpark ETL pipeline to process customer, loan, financial, and time CSVs—computing average income, total debt, and credit-score segments.
- **APPLAI Machine Learning Winter Workshop 2024 (4 Week Hands-On ML**
  - Completed an end-to-end ML pipeline in Python: performed data preprocessing and feature selection, trained logistic regression and KNN models, and evaluated accuracy and precision.

## Projects

### Machine Learning 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

# Data Analysis Projects

**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 – Mar 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.

# Software Development Projects:

**Spotify App Clone**                                                  Mar 2022 – Apr 2022

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

**Tazkarty: Oracle APEX Ticketing**                                    Feb 2023 – Mar 2023

- 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 | Data Analysis & ML | Tools & Platforms |
|---|---|---|
| • Python | • Data Wrangling: Pandas, Excel | • Power BI |
| • SQL | • Statistical Analysis & EDA | • Tableau |
| • R | | |
| • C++ | • Machine Learning: scikit-learn, TensorFlow | • Jupiter/Collab |
| | • Deep Learning & Transfer Learning | • Git |
| | | • Docker |