

# Osama Ahmed Mohamed Amer

Data Science & Analytics Analyst

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Cairo, Egypt | 01024954397

Recent Bioinformatics graduate with a strong foundation in data analysis (SQL, Python, Excel) and hands-on machine-learning experience. Excels at translating complex data into actionable insights and is eager to contribute to a data-driven team.

## Education

**University of East London & Ain Shams University** 2020 - Graduated **Jul 2025**  
**Bachelor's** degree at Bioinformatics and Information Science

## Experience

**Reyada** – [Nasr City, Egypt]

**Business Solutions Intern** July 2025 – Present

- Designed and configured custom Bitrix24 CRM solutions by analyzing business requirements, building sales pipelines, and automating workflows.
- Managed project execution using Kanban and Gantt methodologies for a final solution-design project.
- Analyzed business use cases to bridge the gap between technical capabilities and client needs, proposing effective automation strategies.

## 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

## **Brain tumor Detection and Staging**   Sep 2024 – Jul 2025

- Developed a two-stage deep learning pipeline to first classify brain MRI images into four categories (Glioma, Meningioma, Pituitary, No Tumor) and then determine tumor size and location.
- Trained and validated an EfficientNetB3 classifier, achieving 99% validation accuracy.
- Built and trained a U-Net segmentation model on a specialized dataset with data augmentation, achieving a 0.89 validation Dice score.
- Deployment: Integrated both models into a final inference pipeline designed to process user-uploaded images and generate both quantitative reports and visual overlays.

## **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

## **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.

## **Netflix Data Visualization & Insights Reporting**   June 2024 - June 2024

- Analyzed Netflix Titles dataset using R (tidyverse, ggplot2) to visualize content strategy trends.
- Preprocessed data, standardizing features like duration/dates and handling missing values.
- Created 7 charts (pie, histogram, etc.) illustrating findings on content types, release years, ratings, and themes for a project report.

## **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.

# Languages

- Arabic, English (upper intermediate)

# Core Skills

## Programming Languages

- Python, SQL, R, C++

## Data Analysis & Visualization

- Pandas, NumPy, Excel (PivotTables, VLOOKUP)
- Power BI, Tableau, Matplotlib, Seaborn

## Soft Skills

- Teamwork : Collaborated on a 4-6 persons on many projects
- Communication: Prepared reports & presentations.
- Presentation Skills

## Machine and Deep Learning

- scikit-learn, TensorFlow (Keras)
- Deep Learning & Transfer Learning
- PySpark & ETL Pipelines

## Tools & Collaboration

- Git, Docker
- Jupyter Notebooks, Google Colab