

# Ramzy Bakir

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## WORK EXPERIENCE

### Data Analysis & Business Intelligence Intern – Centro; Cairo, Egypt

September 2023 – October 2023

- Centro's Data Program.
- Hands-on experience using statistical analysis and visualization software such as Excel, PowerBI, and Incorta.
- Recognized as one of the top 3 interns due to my outstanding performance, which earned me a monetary prize.

### RPA Business Analyst Intern – Advansys ESC; Cairo, Egypt

July 2023 - August 2023

- Attained expertise and valuable skills in RPA business analysis.
- Developed foundational skills in utilizing and understanding software such as UI Path.
- Created Process Definition Documents (PDDs) for approved automation projects.
- Initiated two processes for a client as part of a team effort, started the phases of RPA implementation, which included data gathering and thorough analysis.
- Collaborated closely with the client to ensure a successful start to the automation projects.

### Student Intern – Orange Egypt; Cairo, Egypt

April 2018 - May 2018

- Required to deliver a project involving 2 juries, where results contributed to high school grades, attained a flawless score on the project presentation.

## EDUCATION

### EUI | Faculty of Computing and Information Sciences

New Administrative Capital, Cairo, Egypt

Bachelor's degree

November 2022 – Present

- **Relevant courses:** Introduction to Computing and Programming, Programming Fundamentals, Calculus I, II, Digital Design and Logic, Data Structures, Introduction to Probability and Statistics, Computer Architecture and Organization, Computational Linear Algebra.

### IEEE EUI Computer Society SBC | Data Science Boot Camp

Remote

Boot Camp

August 2022 – October 2023

- Distinguished as a top-performing team member, ranking among the top 3 teams in the Boot Camp's Machine Learning competition hosted on Kaggle.

### Collège de la Salle / Lycée Simone de Beauvoir

Cairo, Egypt

French Baccalaureate

September 2008 – July 2022

## SKILLS & COURSES

- **Programming Languages:** Python, R, C, C++, SQL, Scala
- **Data Science & Machine Learning:** Python Libraries: NumPy-Pandas-Seaborn-Matplotlib-Scikitlearn-XGboost-GradientBoosting-KNN-Decision Trees-Linear Regression-SVM-Langchain-Streamlit-LLMs-TensorFlow-Keras-SciPy-Beautiful Soup| R: Tidyverse, gg2plot | LaTeX, Power BI, Tableau, Incorta.
- **Languages:** Arabic native proficiency, English & French fluent proficiency, German conversational proficiency
- **Courses:** [IBM Data Science Specialization](#) | [Data Scientist with Python - Datacamp](#) | [Machine Learning with Python – IBM](#) | [Data Analyst with Python - Datacamp](#) | [RPA Business Analyst Foundation - Ui Path](#) | [Data Analysis with R - IBM](#)

## PROJECTS & PUBLICATIONS

### Career Navigator Chatbot

Scala, Python

Functional programming, Machine Learning, Web scrapping, Web App

April 2024-May 2024

- A comprehensive career navigation platform with a robust Scala backend and a sleek Python frontend, optimizing the tech industry job search experience.
- Data-driven chatbot that tailors responses based on user input, providing personalized career advice and insights.
- Employed web scraping and API integration to fetch the latest job offerings from LinkedIn, ensuring users receive up-to-date job opportunities.

### Egypt's Net Migration Patterns: A Time Series Analysis

Paper

Study – Machine Learning Model

March 2024-May 2024

- This research aims to analyze how sociopolitical and economic factors have influenced Egypt's net migration over the past 50 years.
- Utilized advanced statistical techniques and data visualization tools to identify trends and correlations in migration data over time.
- Employed advanced regression algorithms, including Gradient Boosting and XGBoost, and conducted feature engineering to predict net migration

### BookPal-AI – LLM Powered Reading Companion

Python

Large Language Model, Web App

March 2024-March 2024

- Built using Streamlit, Langchain, HuggingFace and FAISS
- Enables natural language conversations about various document types (PDFs, CSVs, plain text)
- Integrates advanced language models like Chat OpenAI and instructor-xl.
- Delivers accurate responses based on the content of uploaded documents.

### Anghami - Clone

C++, WinForms

Software Engineering

Decembre 2023-January 2024

- Developed a music player application as a CS213 Data Structures project, emulating the layout and features of anghami using C++ and Windows Forms.
- Utilized linked lists, queues, and stacks for efficient playlist management and playback control.
- Demonstrated proficiency in OOP, algorithms, and data structures to deliver a functional and engaging music streaming experience.

### Ames Housing Price Prediction with Advanced XGBoost Regression

Python

Machine Learning

September 2023 – October 2023

- Performed an extensive exploratory data analysis (EDA) utilizing histograms, scatter plots, box plots, and heat maps.
- Applied Ordinal Encoding & One-Hot Encoding methods for data conversion, employs machine learning models for prediction, focusing on XGboost.
- Ranked among the top 3 teams where the submission files achieved a public score of 0.12374.

### Exploring Shark-Human Interactions in the MENA Region

Python

Data Analysis, Visualization and Manipulation

July 2023 - August 2023

- Utilized Python and key libraries (NumPy, seaborn, matplotlib) for MENA shark-human interaction data analysis.
- Visualized data to unearth trends and insights in the Global Shark Attack File database.

### Case Study Sales Dashboard

Power BI

Business Intelligence, Data Analysis, Visualization and Manipulation

October 2023- October 2023

### Library Management System, Object Oriented Programming, C++

April 2023 - May 2023

### Student Management System, File Handling, User Authentication, User Interface, Database Integration, Python 3

Decembre 2022 - February 2023

- ❖ You can access all the aforementioned project details, including source code and documentation, within my GitHub repositories via the following link: <https://github.com/RamzyBakir?tab=repositories>