Ramzy Bakir

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WORK EXPERIENCE

Centro – Data Analysis & Business Intelligence Intern; Cairo, Egypt — September 2023 – October 2023
- Centro's Data Program.
- Hands on experience in utilizing Excel, PowerBI and Incorta.
- Recognized as one of the top 3 interns due to my outstanding performance, which earned me a monetary prize.

Advansys ESC – RPA Business Analyst Intern; Free Zone, 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.

Orange Egypt – Intern / Apprentice; Smart Village, 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- KNN-Decision Trees- Linear Regression-SVM-Langchain-Streamlit-LLMs-TensorFlow-Keras | 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-Present
- This research aims to analyze how sociopolitical and economic factors have influenced Egypt's net migration over the past 50 years.

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-Janurary 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.

Case Study Sales Dashboard — *Power BI*
Business Intelligence, Data Analysis, Visualization and Manipulation — October 2023- October 2023
- This was the case study for my BI/DA internship @Centro.
- The project incorporates a variety of visuals providing insights and information on store performance.

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.

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