Osama Alaa Mohammed

Data Science Student - CU

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[Portfolio-Website](#) | [GitHub](#) | [LinkedIn](#) | [YouTube](#) | [Kaggle](#) | o.osamaalaa678@gmail.com

Objective

- Understanding the business structure, requirements, and goals is a key interest. Asking good questions for well understanding to fit an effective solution. Think twice before acting to reach efficient conclusions.

Journey

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE

6 Months Program Courses:

- What is Data Science?
- Tools for Data Science.
- Data Science Methodology.
- Python for Data Science, AI & Development.
- Python Project for Data Science.
- Database and SQL for Data Science with Python.
- Data Analysis with Python.
- Data Visualization with Python.
- Machine Learning with python.
- Applied Data Science Capstone.

Gained Skills:

Data Science – Data Manipulation
- Applied Machine Learning
- Data Mining – GitHub – big Data
- Jupyter Notebooks. – RStudio
- IBM Cloud – Data preprocessing
- Data Analysis – Data Visualization
- **Python Programming**.

Show Credential

GOOGLE DATA ANALYTICS PROFESSIONAL CERTIFICATE

6 Months Program Courses:

- Foundation: Data, everywhere.
- Ask Questions to Make Data-Driven Decisions.
- Prepare Data for Exploration.
- Process Data from Dirty to Clean.
- Analyze Data to Answer Questions.
- Share Data Through the Art of Visualization.
- Data Analysis with R Programming.
- Complete Case Study.

Gained Skills:

Data Cleaning – Problem Solving
- Critical Thinking – Data Ethics
- Data Visualization - Presentations
- Spreadsheets – SQL -Tableau
- Storytelling – Presentation
- Data Quality - **R Programming**.

Show Credential

META DATABASE ENGINEER PROFESSIONAL CERTIFICATE

6 Months Program Courses:
- Introduction to Database.
- Version Control.
- Database Structures and Management with MySQL.
- Advanced MySQL Topics.
- Programming in Python.
- Database Clients.
- Advanced Data Modeling.
- Database Engineer Capstone.

Gained Skills:
 SQL and Python syntax
- database management. - Linux
- database administration.
- Tabular records – MySQL – DBMS
- GitHub – Web Development.
- Bash (Unix Shell – Version Control
- Data Management.

Education

BACHELOR'S DEGREE | COMPUTER SCIENCE | CAIRO UNIVERSITY   2019 - 2023
· Department: Bioinformatics – Data Science
   · GPA: Very Good

CAIRO UNIVERSITY BACHELOR DEGREE IN COMPUTER SCIENCE

4 Years Degree Courses:
- Structural Programming.
- Object-Oriented Programming.
- Data Structures and Algorithms.
- Ai and Machine Learning.
- Statistics and Mathematics.
- SQL and Databases.
- Computer Architecture and Network fundamentals.
- Molecular Biology and Biochemistry.

Gained Skills:
- Knowledge of computer science core concepts. – understanding of Software Engineering process.
- Understanding the importance of Mathematics and statistics.
- C++ Programming.

MACQUARIE UNIVERSITY MBA SPECIALIZATIONS   2022- 2024

15 Month- 5 Specializations- 20 Courses:
- Strategizing MBA Specialization.
- Leading MBA Specialization.
- Influencing MBA Specialization.
- Adapting MBA Specialization.
  Analyzing MBA Specialization.

Gained Skills:
- Be global. - Be disruptive.
-Be sustainable. – Be competitive.
-Know your organization.
- Know your people.
- Career planning. And many more.

Projects & Cases Study

airbnb NEW YORK PROJECT | PYTHON   [VIEW NOTEBOOK](#)

- Airbnb is an organization that operates an online marketplace service for lodging, primarily homestays for vacation rentals, and tourism activities.
- We analyzed New York data for almost 49,000 listings.
- We worked throw 3 main steps:

    1- Explore and understand the data.
    2- Analyze and Predict Regression models.
    3- Visualize findings and Act.

bellabeat DATA ANALYSIS CASE STUDY | R   [VIEW NOTEBOOK](#)

- Bellabeat is a high-tech manufacturer of health-focused products for women.
- We analyzed smart devices fitness data to gain insight into how consumers are using their smart devices. The insights we discovered helping guide marketing strategy for the company.
- The analysis presented as recommendations for Bellabeat's marketing strategy.

ANALYZE INTERNATIONAL DEBT STATISTICS | SQL   [VIEW NOTEBOOK](#)

- The World Bank's international debt data. - Finding the number of distinct countries.
- Finding out the distinct debt indicators. - Totaling the amount of debt owed by the countries.
- A country with the highest debt.- The average amount of debt across indicators.
- The highest number of principal repayments. - The most common debt indicator.
- Other viable debt issues and conclusion.

[MORE PROJECTS](#)

Technical Skills

- Proficient in Python, C++ and SQL - large data systems.
- Intermediate level in R, Data Visualization using Tableau.
- Machine learning Algorithms for classification and regression problems.
- Work with pipelines, handling overfitting, underfitting and data leakage.
- Statistics and Mathematics practical knowledge.
- Excel and Spreadsheets.

Soft Skills

- CURIOSITY – ADAPTABILITY – COMMUNICATION – DELIBERATED.

Additional Skills

- PHOTOSHOP – ADOBE AFTER EFFECTS – ADOBE PREMIERE – ILLUSTRATOR