Osama Alaa Mohammed

Data Science Student - CU

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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 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