Omar Moustafa

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Profile Summary

- Majoring in Data Science and Minoring in Computer Science
- Strong foundation in Data Analysis and Visualization, understanding of numerous Mathematical Concepts, and fluency in multiple Programming Languages and BI tools
- Passion and genuine interest lie in investigating data to reveal patterns, insights, and existing relationships, and promote informed decision-making
- Academic studies and projects have offered excellent knowledge and practices of Data Science, Statistical Analysis, and Machine Learning

Education

September 2022–Present

Bachelor of Science in Data Science with a minor in Computer Science
School of Sciences and Engineering, The American University in Cairo
New Cairo, Cairo, Egypt
Expected to graduate in June 2026

August 2018–June 2022

American High School Diploma
Cairo American College
Maadi, Cairo, Egypt

Experience

April 2025–May 2025

***P&G* Standout Supply Chain & Manufacturing Academy**
- Three-day in-person workshop learning about Supply Chain ideas and workflows, along with remote project completion
- Demonstrated a successful launch of the given initiative while minimizing Inventory Disposition Expense and maintaining service across the Product Portfolio
- Used Artificial Intelligence & Machine Learning techniques to forecast product sales for the upcoming years, given certain promotional and price reduction data

February 2025–May 2025

Student Support Work-Study – Office of Student Life (OSL) at AUC
- Assisted in planning and executing special events
- Managed student and staff sign-ups, designed forms, scheduling, and tracking sheets in Microsoft Office and Excel, and Google Forms

August 2024–October 2024

Remote Web Development Intern – Straightforward Consulting
- Planned the web-design process from the project scope to the time-frames to the budgets, and more
- Collaborated with different departments to gather requirements and ideas, and implement design elements

Selected Projects (Complete Portfolio is Available at my GitHub)

May– June 2025	**Delhi Daily Climate Forecasting | GitHub Repo** • Modeled Delhi's daily climate data using ARIMA modeling and Spectral Analysis • Implemented manual seasonal differencing to find the accurate model and generated accurate short-term forecasts
May 2025	**Investigating the English Premier League | GitHub Repo** • Applied Machine Learning algorithms (Logistic Regression, Random Forest, K-Nearest Neighbors) to predict Premier League match outcomes using first-half in-game statistics • Performed model evaluation across 10 trials, feature importance analysis, and per-team accuracy visualizations to assess predictive performance and interpret vital factors in a game of football
April– May 2025	**Supply Chain Product Transition and Forecasting | *P&G* | GitHub Repo** • Planned out and analyzed the transition from Product 1 to Product 4 while minimizing the Inventory Disposition Expense (IDE) and maintaining service levels • Implemented AI & ML techniques for improved demand forecasting to optimize production and inventory management, and observe what factors most positively affect company sales
April– May 2025	**Cluster Analysis of Newborn and Maternal Health Data | GitHub Repo** • Tools and techniques included *R* packages for Statistical Analysis, Data Visualization, and Clustering methods • Implemented, analyzed, and compared the prominent Clustering methods known as "Hierarchical Clustering" and "The K-Means Method"
December 2023	**Female Lifestyles vs Coronary Heart Diseases | GitHub Repo** • Tools and techniques included *Python* libraries and *Power BI* for Data Manipulation and Visualization • Studied and analyzed the existing relationships between various female lifestyles and their respective chances of contracting coronary heart diseases
May 2023	**Blood Pressure and Body Mass Index vs Life Expectancy | GitHub Repo** • Tools and techniques included *Python* libraries and *Power BI* for Data Manipulation and Visualization • Analyzed blood pressure, body mass index, and life expectancy data for both genders across various countries to establish the existing relationships between them

Technical Skills

- Programming Languages: Python, R, C++
- Frameworks and BI Tools: Jupyter Notebook, Google Colab, RStudio, GitHub, CLion, Tableau, Power BI, Microsoft Excel

Soft Skills

- Problem-Solving, Critical and Analytical Thinking
- Attention to Detail, Teamwork, and Excellent Communication
- Organization, Time-Management, and Reliability and Flexibility
- Respect and Maturity, and a Strong Desire to Learn

Coursera Courses

January 2025–February 2025
Machine Learning for Python
Learned the basic concepts of Machine Learning, ranging from Clustering & Classification, to Linear & Logistic Regression, to the SciPy & Scikit-Learn *Python* libraries

July 2022–August 2022
Introduction to Python Fundamentals
Learned and mastered the fundamentals of Python programming

Co-Curriculars

March 2024–April 2024
SU x EFG – Datalytics
Analyzed random datasets about a client company to find relationships between variables and draw insights on what the company is currently doing well and what could be improved

Honors

June 2023
Dean's List
Honorary recognition for achieving a GPA greater than 3.5 in the Spring 2023 semester

Certificates

May 2025
***P&G* Standout Supply Chain & Manufacturing Academy**
Certificate of Participation in the *P&G* Supply Chain and Manufacturing Standout Academy