Abdallah Elnahal

Profile	Recent Software Engineering graduate with a strong focus on data analytics. Skilled in Python, R, and Power BI, with hands- on experience in deriving actionable insights from complex datasets. Demonstrated ability in applying analytical tools like Tableau and R in academic and internship projects. Eager to contribute to a data-driven organization by leveraging my technical skills and passion for data analysis.	
Education	BSc in Software Engineering, 09/2020 – 06/2023 Liverpool John Moores University, Liverpool, United Kingdom Final Year Project: "NBA Games Data Analysis and Winner Prediction " Google Data Analytics Professional Certificate, 06/2022 – 09/2022 Remote Foundation degree – Intro to Software Engineering, 09/2019 – 06/2020 Liverpool John Moores University, Liverpool, United Kingdom	
Skills	 Personal: Problem-Solving Team Working Analytical Thinking Communication Critical Thinking 	 Frechnical: Programming Languages: Java, Python, R Data Analysis & Development: Excel, SQL, MongoDB Machine Learning: Scikit-Learn Data Visualization Tools: Tableau, Power BI
Experience	 DATA ANALYST - 07/2023 - 10/2023 (Contract) Liverpool John Moores University, Liverpool, United Kingdom (Remote) Spearheaded a biology-focused data analysis project using R and Tableau to explore species diversity and bacterial compositions in animals, leading to new insights in ecological studies. Played a pivotal role in translating large datasets into actionable insights, aiding in strategic decision-making processes. Executed advanced statistical techniques, including nonmetric multi-dimensional scaling (NMDS) and K-Means clustering, leading to further research decisions by researchers. WEB DEVELOPER 02/2023 - 05/2023 (Contract) Cycle Of Life, Liverpool, United Kingdom (Hybrid) Designed and developed an end-to-end website using WordPress and PHP, resulting in an improved online presence and increased user engagement for the company. Identified the need to improve the company's online presence to drive user engagement. Achieved a 12% uptick in online user interactions and improved website analytics. 	
Projects (More can be found on GitHub & LinkedIn)	 Walmart Global Tech's Advanced Software Engineering Virtual Experience: Implementing Java, SQL, Python and UML: Developed a system architecture using UML and Java, which streamlined business operations and enhanced system functionality by 25%. Executed a comprehensive relational database design using SQL, leading to a 20% reduction in data retrieval time. Skillfully handled data munging, ensuring 100% accuracy in database population, and enhancing overall data integrity. 	

U.S Department of Energy Power Outages – Maven Analytics December Challenge

- Established the data refinement and development of a Power BI dashboard to depict power outage patterns and grid vulnerabilities.
- Analyzed historical data to pinpoint a notable trend in outages caused by environmental factors, directing infrastructural fortification efforts.
- Articulated data quality considerations and their implications, aiding in the formulation of strategies to decrease future power disruptions.

Customer – Sales Analytics - Using Python and Tableau:

- Analyzed customer-sales data to uncover key trends and insights, leading to a 10% increase in targeted marketing effectiveness.
- Created a dashboard that provided comprehensive data visualization, enhancing the company's ability to make datadriven sales and marketing decisions.

NBA Analysis and Predictions Using Python:

- Developed a comprehensive data analysis and prediction model for NBA games as part of my final year project, improving prediction accuracy by 10% compared to baseline models.
- Utilized Python for data cleaning, wrangling, and analysis, demonstrating proficiency in handling large datasets.
- Enhanced data processing and analysis techniques, which streamlined the data workflow and improved overall analysis efficiency.
- Implemented machine learning algorithms effectively, providing accurate game predictions that were utilized in academic settings.
- Managed the project using Git and GitHub, reinforcing my understanding of version control systems and collaborative coding practices.

Bellabeat Business Analysis Using Python and Tableau:

- Visualized key data trends in Tableau, leading to the implementation of two major business strategies based on the insights.
- Utilized a Random Forest model to uncover critical patterns, contributing to a 10% increase in marketing campaign efficiency.
- Ensured robust model performance through K-Fold cross-validation, achieving an 88% accuracy rate in predictive analytics.

BCG Virtual Experience Data Science Program Using Python and SQL:

- Streamlined business decisions by providing precise insights from diverse data, enhancing the ability to forecast user trends and behaviors.
- Analyzed business context and data to derive actionable solutions, resulting in further analysis and predictive outcomes.
- Created new data using business context and expertise to provide useful signals in the prediction of outcomes.
- Designed and tested predictive models, achieving an 85% accuracy rate in matching predictions with real-world data.
- Translated insights from analysis into visualizations outlining business decisions and recommendations.

Database Design and Implementation for Paperized Data using SQL:

- Streamlined data management processes by designing a robust ERD, ensuring seamless data retrieval and maintenance.
- Ensured data integrity through DDL and DML commands, providing a reliable foundation for business operations –
- Tested and validated the design and data transformation processes to ensure data integrity.

People Analytics – Data in Motion Challenges – Using SQL and Tableau:

- Provided critical insights into HR trends and patterns, enabling better resource allocation and talent management strategies.
- Developed an interactive dashboard that presented complex data in an easily understandable format, facilitating better decision-making in HR practices.