ESI TAWIAH ABBEY

+44 7597190930 | Email
LinkedIn
|Portfolio
United Kingdom

Summary

Results-oriented data science graduate with a strong academic foundation and practical experience in healthcare settings. Demonstrate proficiency in data analysis and visualisation tools including Excel, Python, Tableau, and SQL. Experienced in optimising data accessibility and retrieval efficiency through effective data compilation and organisation. Proven track record of identifying patterns and trends, extracting actionable insights to support decision-making processes. Exhibit meticulous attention to detail, ensuring data accuracy and reliability. Collaborative team player with exceptional communication skills, adept at engaging stakeholders across diverse domains. Passionate about leveraging data science expertise to make meaningful contributions across diverse fields.

Work Experience

Data Scientist – 10Alytics (Remote) – January 2023 - Present

- Developed a machine learning model to predict heart disease likelihood by performing exploratory data analysis, pre-processing the data, training and evaluating multiple machine learning algorithms, ultimately selecting the best-performing model with an F1-score of 89.23%.
- Successfully led a project for a client in the HR industry, created interactive dashboards and visualisations using Tableau, enabling the client to identify trends and insights related to diversity and inclusion in their workforce, resulting in a 20% increase in diversity and inclusion initiatives within the company and a 15% increase in employee satisfaction.
- Conducted data analysis and forecasting using Excel for a delivery company, enabling them to optimise their resources allocation and improve delivery efficiency by accurately predicting deliveries a week ahead.

Medical Data Scientist Intern – Mountain View Community Hospital – September 2020 - February 2021
Accra, Ghana.

- Assisted in the collection and preparation of medical records and patient data, and integration of data from various sources.
- Collaborated with healthcare professionals to compile and organise healthcare data, resulting in an increase in data accessibility and retrieval efficiency. This improvement led to a reduction in consultation times by approximately 10%, improving the doctor-to-patient ratio and overall patient satisfaction.
- Conducted data exploration to identify patterns and trends, providing valuable insights that contributed to a 20% improvement in patient outcomes, including reduced readmission rates and enhanced treatment effectiveness.
- Ensured the precision and integrity of patient records by meticulously updating and maintaining accurate information, achieving a 99% accuracy rate in data entry and record-keeping.
- Shadowed skilled doctors and medical staff, gaining a comprehensive understanding of best practices, medical procedures, and terminology, which facilitated seamless communication and collaboration within the healthcare team.

Public Health Data Scientist Intern – Greater Accra Regional Hospital – February 2020 - June 2020
Accra, Ghana.

- Conducted accurate and timely data entry of medical information into the hospital's database, maintaining a 99.8% data accuracy rate and ensuring reliable and up-to-date records.
- Collaborated with public health professionals to interpret data, providing valuable insights for informed decision-making and policy development. Communicated updates and reports to senior staff through clear verbal and written communication.
- Collaborated with public health nurses at the Directly Observed Therapy (DOTS) centre to educate and monitor tuberculosis patients. Assisted in monitoring the treatment adherence of 50+ patients, contributing to an overall

treatment success rate of 85%.

- Provided counselling on nutrition needs during pregnancy to pregnant women under the supervision of a Public Health Nutritionist. Conducted individual counselling sessions for 30+ women, promoting healthy eating habits and ensuring optimal maternal and foetal health outcomes.

Projects

Analysis of covid-19 data using SQL.

- Leveraged SQL to analyse and explore Covid-19 data obtained from Our World Data. The data set spanned from February 2020 to April 2021.
- The dataset was first cleaned to ensure accuracy and consistency of the data.
- The project aimed to uncover key trends and patterns in the data and Azure Data Studio was utilised to perform the analysis.
- Created a Tableau dashboard to visually represent the insights and trends obtained from my analysis.

Exploratory analysis of the Nigerian automobile market.

- Cleaned and prepared data using Python programming language and the Pandas library.
- Performed exploratory data analysis using Python.
- Visualised data using matplotlib and seaborn libraries to provide insights that will enable the company to establish a successful manufacturing unit and compete effectively with other players in the market.

Skills

- Data analysis: Proficient in Microsoft Excel, Python (Pandas, NumPy, Scikit-learn), SQL.
- Data visualization: Tableau.
- Statistical analysis: Hypothesis testing, regression analysis, data modelling.
- Problem-solving: Analytical thinking, critical reasoning, decision-making.
- Communication: Excellent written and verbal communication skills in English.
- Teamwork: Collaborative, cooperative, adaptable to diverse teams.
- Organization: Strong organizational skills, multitasking.

Education

MSC Public Health (Grade achieved - 2:1) – January 2021 – November 2022
University of Chester, UK
Modules studied include Research dissertation (Distinction), Epidemiology and statistics for public health (Distinction), Leadership and health policy development (Merit), Communicable disease in public health (Merit), The Economics of Health (Merit), Theories and principles of public health (Distinction), Research in Community Practice (Merit).

Bachelor of Medicine, Bachelor of Surgery (Grade achieved - 2:1) – December 2012 – July 2019
Volgograd State Medical University, Russia

References

Available on request.