ESI TAWIAH ABBEY

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PROFESSIONAL SUMMARY

A dedicated Data Scientist with a background in healthcare and public health, driven by a passion for leveraging technology to create impactful solutions. Adept at data analysis and problem-solving, and with high attention to detail and organisation. Capable of effective teamwork and independent work on multiple projects. Skilled in statistical analysis, data visualisation, Python, and SQL programming languages. Passionate about staying up to date with the latest technologies, I am continuously working on enhancing my skillset and knowledge, ensuring that I am well-equipped to tackle any analytical challenges that may arise. Ability to learn new data systems quickly and to comply with data integrity and security.

PORTFOLIO

- GitHub

KEY SKILLS

- High Attention to Detail
- Strong Oral & Written Communication Skills
- Analytical & Problem-Solving
- Organisational Skills
- Adaptability & Flexibility
- Statistical Analysis
- Data Visualisation
- Data Cleaning
- Predictive Modelling
- Time Series Analytics
- Collaboration & Teamwork
- Creativity & Innovative
- Research skills
- Remote & Hybrid Working
- Healthcare Analytics

CORE TECHNICAL SKILLS

- Programming language: Python (Base I Pandas I NumPy I Matplotlib I Scikit-Learn) I SQL
- Machine Learning: Linear Regression I Logistic Regression I Decision Trees I Random Forest I KNN I K-Means
- Other: Statistics I GitHub I Microsoft Office (MS Excel) I Visualisation software like Tableau I SPSS I Jupyter Notebook I Computer Vision

EDUCATION & CERTIFICATIONS

- Master's degree in Public Health: 2:1
  University of Chester, United Kingdom

- Bachelor of Medicine I Bachelor of Surgery: 2:1
  Volgograd State Medical University, Russia

- Data Science Professional Certification, Data Science Infinity

- Master Data Scientist Certification, 10Alytics

  Further Development:
- SQL data extraction and manipulation.
- Python for data analysis, manipulation, and visualisation.
- Data preparation: handling missing values, encoding, scaling, selection, validation.
- Machine Learning: regression, classification, clustering.
- Utilising computer vision: hand, face, and eye detection

KEY ACHIEVEMENTS

- Exhibited exceptional resilience and adaptability in navigating unforeseen challenges during the COVID-19 pandemic whilst studying for a master's degree in public health. Successfully managed increased workload and course end date change, completing all assignments and dissertation on time. Achieved a distinction for dissertation and assignments, demonstrating outstanding academic performance.
- Proactively pursued a career change in IT, focusing on data science and data analytics. Enrolled in training programmes, showcasing determination and commitment to mastering this field. Successfully completed programmes, acquiring new skills and knowledge, and establishing a solid foundation in a fast-evolving industry.
- Overcame significant linguistic and academic challenges while undertaking an undergraduate medical degree in Russian. Achieved a second-class upper grade, demonstrating an outstanding level of academic excellence. Successfully won a Russian language competition, highlighting exceptional language proficiency and cultural competence.

CAREER SUMMARY

Live-In Carer I Ranger Home Care   **01/2022 – Present**

- Collected accurate records of client health metrics and care routines, with a focus on ensuring data integrity and consistency, similar to data entry standards.
- Monitored and analysed health trends over time, utilising pattern recognition skills to identify early indicators of health changes—demonstrating proficiency in trend analysis and proactive data-driven decision-making.
- Managed structured care plans based on quantitative (medication schedules, vital signs) and qualitative data (behavioural observations), reflecting strong organisational and data management skills.
- Prepared and presented reports summarising client progress to healthcare teams, reinforcing skills in data reporting, documentation, and clear communication of data insights.
- Adapted care strategies based on data patterns to meet evolving client needs, showcasing flexibility and the ability to make timely adjustments based on real-time data interpretation.

Data Scientist & Analyst | 10Alytics   **01/2023 – 02/2024**

- Analysed Nigerian auto market for a leading Chinese firm, achieving a 20% market share increase in the initial quarter.
- Utilised Python and Pandas for data preparation and generated accurate insights that played a direct role in shaping strategic decisions.
- Utilised Matplotlib and Seaborn to create informative visualisations that supported findings.

Medical Data Analyst I Mountain View Community Hospital   **09/2020 – 02/2021**

- By meticulously implementing data compilation and organisation of healthcare data within a database, a 10% reduction in consultation times was attained, resulting in improved doctor-to-patient ratios and a 20% boost in patient satisfaction. The enhanced accessibility and retrieval efficiency of data played a pivotal role in achieving these outcomes.
- Demonstrated excellent analytical skills and used tools like SQL and Excel to extract insights from healthcare data.
- Conducted thorough healthcare data analysis and attained a 15% decrease in hospital readmissions.
- Provided effective healthcare insights by monitoring disease trends, which informed strategic healthcare delivery decisions and improved patient outcomes.