Kelvin Ofori-Minta

G.S Research Associate - UTEP

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Research & Development | Data Science |Healthcare | Market Research Analyst

PROFESSIONAL SUMMARY

An enthused research scientist with much interest in NLP with a quick understanding of industry-specific challenges and a passion for continual enterprise growth through the creation of value from data using advanced machine learning methods to identify critical enterprise risks, trends and opportunities. Experienced in designing and implementing analytical solutions with consulting support to key stakeholders. Curious about original ideas, new thinking and also excited about trying out different experiences actively.

KEY SKILLS & EXPERTISE

- ✓ R programming
- ✓ Python programming
- ✓ Machine Learning
- ✓ Artificial Intelligence
- ✓ Reliability Analysis
- ✓ NLP (Sentiment analysis)
- ✓ Alteryx & SQL - (Basic)
- ✓ Tableau visualization

CAREER HIGHLIGHTS & RELEVANT PROFESSIONAL EXPERIENCE

Data Science Research Associate – Summer Intern 06,2022 – 09,2022
William Beaumont Army Medical Center El Paso, Texas

Research Highlight: I developed a clinical point-of-care tool to predict adjuvant chemotherapy benefit in stage 1B/2A Lung cancer.

- Derived cut-off points for survival benefit from adjuvant chemotherapy with visualised hazard ratio of chemotherapy treatment versus risk score.
- Verified and validated the reliability or accuracy of the 3-, 12- and 24-month nomogram survival predictions using bootstrapped adjusted concordance-index.

Statistics & Data Science Research Candidate 08,2019 – current
University of Texas at El Paso El Paso, Texas

Research Highlight 1: I deployed Machine learning methods to obtain genetic sequence mutations susceptible to cause prostate cancer.

- Developed an R Studio program for the implementation, calculation and visualization of scan statistic via a sliding window analytical display, to detect regions of high concentration of events(mutations) visualized as graphical peaks.

Research Highlight 2: I deployed NLP models for semantic analysis on different textual reviews (text data) and achieved high validation accuracy.

- Natural Language Processing (NLP) semantic analysis on classifying movie reviews from IMDB website using the BERT model. This model achieved a 94% accuracy after validation. – GitHub
- NLP and text mining using Bag of Words (BoW) model with the application of Random Forest classification on restaurant reviews. Model achieved a 79% accuracy after validation. – GitHub
- Graduate school seminar presentation on Deep Learning Autoencoders and Imputation Techniques for Missing Values.

Research Highlight 3: Course lab instructor for Data Mining and R analytics

- Increased non-stem background students' interest through practical tutorial sessions.

Market Research Analyst - Volunteer 01,2020 – 01,2021
Wonderseed Foundation El Paso – Texas

Research Highlight: I performed data analytics which is geared towards human wellness by discovering insights and patterns based on market data to foster emotional intelligence through immersive technology and storytelling.

- Developed mathematical models that integrate business rules and requirements by the use of machine learning models and statistical procedures and automating and integrating processes through researching solutions to overcome data analytics challenges.

EDUCATION — Graduation (Expected)

PhD. Data science (*University of Texas at El Paso)* (2024)
MSc. Statistics *(University of Texas at El Paso)* 2021
BSc. Actuarial Science *(University for Development Studies)* 2017