BRANDON I. KING

Ph.D. Candidate at North Carolina State University | Data Science & Textiles

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DATA SCIENCE EXPERIENCE

Data Scientist Intern | Naval Information Warfare Center (NIWC)

May 2019 - August 2019

♀ Charleston, SC

- Collaborated with cross-functional teams on research projects: analyzed and manipulated data, applied statistics concepts, developed metrics to measure results, and integrated new methodologies into existing systems
- Communicated complex analytical topics with Leadership about analyzed data conclusions within the Business Enterprise and Data Analytics department at NIWC to deliver high-quality insights to make data-forward insights
- Contributed to new methodologies that optimized backend methods to perform 99% faster using unsupervised machine learning techniques and algorithms, such as Term Frequency–Inverse Document Frequency and K-Means Clustering using data science tool-kits (Java, Clojure) to provide data-driven insights

Graduate Research Assistant | North Carolina State University

August 2016 - Present

Raleigh, NC

- Develop and build clean, efficient, reproducible, and highly scalable *Python* shell scripts to validate appropriate machine learning and big data tools with accuracy, and improve textile manufacturing processes performance
- Design and implement quantitative analysis, machine learning methods, in-depth data exploration, and feature engineering on large, complex, and multi-dimensional data sets to extract insights into textile recycling behavior
- Analyze Big Data from a variety of sources on cardio-respiratory monitoring systems (using Microsoft Excel, VBA, JMP Pro, and EasyFit) provided in collaboration with Medical teams to remove bottlenecks for efficient cardiac monitoring

ENTREPRENEURIAL EXPERIENCE

Owner & Lead Tutor | Beacon of Light Tutoring

▼ Triangle Area, NC

- Passionately serve as a mentor, tutor, and advisor for local middle school and high school students passionate about excelling in Mathematics
- Lead one-on-one sessions for students across all grade levels with their mathematics assignments
- Receive 100% positive feedback from tutees and currently have a 100% success and graduation rate

PRESENTATIONS

King, B.I., Rothenberg, L., Joines, J. Applying Machine Learning Methods for Insight into Textile Recycling Behavior. Presented at: 2021 Joint Statistical Meeting; August 2021

TECHNICAL PROJECTS

Beat the Bookie | *github.com/bking2415/Decision-Tree* | Graduate Certificate Presentation

• Implemented supervised data science algorithms (*Decision tree*) in *R* from ETL and data pipelines to improve the odds to make a profit on small bet lines

Data Analysis and Visualization | github.com/bking2415/Uber-data-analysis

• Implemented visible analytic concepts to assist in understanding complex data and gain business insights using *Tableau* and *R* libraries (ggplot2, dplyr, and tidyr)

Database Management Systems Project

github.com/bking2415/WolfHospital | Graduate Certificate Project

 Created a robust database system using SQL queries within Java to provide an command line user interface for optimal data ingestion, access and storage via API

EDUCATION

NORTH CAROLINA STATE UNIVERSITY

Raleigh, NC

Ph.D. in Textile Technology and Management

Expected: Fall 2021

Masters in Operations Research

Graduation Date: December 2017

• Affiliations: Black Graduate Student Association - Finance Committee Chair (2018) | Minority Engineering Graduate Student Association

CLAFIN UNIVERSITY

Orangeburg, SC

B.S. in Applied Mathematics

Graduation Date: May 2015

- Alice Carson Tisdale Honors College Scholar
- Honors: Cum Laude | 100 Black Men Scholar
- Affiliations: National Society of Black Engineers -Academic Excellence Chair (2015) | Kappa Alpha Psi Fraternity, Inc. - Vice President (2014)

CERTIFICATIONS

Data Science Foundations Graduate Certificate by NC State University

Machine Learning Certification by Stanford University (Coursera)

ACHIEVEMENTS



Microsoft Azure Machine Learning Scholarship by Udacity

PROGRAMMING LANGUAGES

 Python
 C
 Java
 JavaScript
 Clojure

STATISTICAL ANALYSIS TOOLS

R VBA SAS JMP MATLAB

DATABASE TOOLS

SQL

DATA VISUALIZATION TOOLS

Tableau

SOFT SKILLS

Team Oriented Leadership Problem Solver

Dependable Flexible Determination

Visionary Thinker Adaptable Organizer