Quintin Covington, MSc

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PROFESSIONAL PROFILE

Results-driven Data Scientist / Data Analyst offering recent MS degree in Data Science and advanced technical skills in programming, big data analytics, cloud technology, and AI, providing expertise as follows:

- **Highly astute in collecting, processing, and performing statistical analysis on large datasets** to impact decision-making, suggest conclusions, and provide relevant information using the latest technology
- **Collaborate effectively in team environments with leadership abilities as well as excelling** as an independent contributor; insightful in understanding how technology solutions drive business growth
- **Articulate communicator with ability to break down technical information into lay terms;** innovative and resourceful in problem solving; excellent follow-through on keeping projects on track; self-motivated

PERSONAL STRENGTHS: analytical; approachable; detail-oriented; excellent writing skills; flexible; high level of integrity; innovative thinker; mathematical aptitude; mature work ethic; open to relocation; quick learner; reliable

TECHNOLOGY

LANGUAGES: SQL; Python; R; JavaScript; HTML; NLTK
PROGRAMMING: RStudio; Google Analytics; Tableau; AWS; Python; Pandas; Scikit Learn; Spyder Deep Learning Frameworks (Keras, TensorFlow); Google Colab; Jupyter Notebook
DATABASE MANAGEMENT: Excel (Power Query, Power Pivot, Solver); MSSQL Server; Access; Adminer
CLOUD TECHNOLOGY: Azure; Cloud Management; Virtual Machine (VM)
TEXT ANALYTICS: Power BI; Machine Learning; Big Data Analytics; Text Mining; Natural Language Processing (NLP); Sentiment Analysis; Tokenization; Part-of-Speech Tagging, Syntax Parsing; Text Classification; Transfer Learning; Reinforcement Learning; Embedding Techniques
CERTIFICATIONS: SQL; Python; JavaScript; HTML – Independently through Mimo

EDUCATION

MASTER OF SCIENCE DEGREE – Data Science / GPA 3.78
SYRACUSE UNIVERSITY, SYRACUSE, NY   12/2024
Coursework (34 credit hours): Introduction to Data Science; Deep Learning and Practice; Natural Language Processing; Text Mining; Big Data Analytics; Cloud Management; Database Management; Applied Machine Learning; Scripting for Data Analysis; Quantitative Reasoning for Data Analysis; Business Analytics

BACHELOR OF SCIENCE DEGREE – Cell and Molecular Biology / Pre-Med Track
UNIVERSITY OF SOUTH FLORIDA, TAMPA, FL   6/2018
- Attended medical school at St. George's University; St. George, Grenada (2018-2021)

DATA SCIENCE PROJECTS

Course-mandated projects were planned/organized by students working in teams of 3-4 and completed in a designated timeframe with a final presentation given as part of the grading structure. Teams were different for each project, with communication/collaboration conducted via TEAMS and Zoom sessions. Took a leadership role in generating the programming aspects of each project.

SQL Database: "Food Accessibility and Obesity Analysis"
- Utilized advanced SQL skills, including normalization (3NF), data integrity triggers, and scalability to generate insights linking food accessibility and obesity rates for public health initiatives, focusing on rural populations. Integrated datasets from the USDA and CDC into a structured relational database.
- Executed normalization processes, authored a complete up-down script, compiled an Entity-Relationship Diagram (ERD), and established logical and conceptual models. Imported data seamlessly into MS Azure, offering a mock sample input/output to showcase the envisioned end-state of the system.
- Created static and interactive visualizations (e.g., maps, bar charts) and utilized SQL expertise for data queries, metrics calculation, and function design. Delivered structured reports with actionable recommendations to stakeholders.

DATA SCIENCE PROJECTS (Continued)

R-Data Analysis: "Customer Shopping Preferences Analysis"
- Utilized a 10,000-value dataset from Kaggle for a nationwide shopping center to conduct comprehensive trend analysis using RStudio to present business recommendations to enhance profitability, improve functionality, refine target marketing, and achieve organizational goals.
- Created visualizations using ggplot2 (e.g., heatmaps, bar charts, and pie charts) and descriptive statistics, generating all R code independently. Analyzed shopping data by age, payments, seasonality, gender, shipping methods, and customer reviews.

Cloud Management: "Implementing MS Azure Cloud Solution to Address Inventory Management"
- Designed a detailed mock business proposal tailored to small rural hospitals, highlighting the potential benefits of implementing Azure-based inventory management systems, addressing challenges such a stockouts, overstocking, and supply expiration in alignment with healthcare data regulations/compliance.
- Gained knowledge of IoT integration, real-time data processing, predictive analytics using LM models for forecasting inventory needs based on historical data trends, and secure storage. Conducted a mock cost-benefit analysis, including projected savings, break-even analysis, and scalability potential for small hospitals.
- Created mock Power BI dashboards to simulate insights and enhance proposal presentations, as well as a simulated system integration with existing hospital workflows.

Machine Learning: "Dog Breed Classification and Lifestyle Compatibility Analysis"
- Team Lead for a project classifying dog breeds based on temperament, size, energy level, and maintenance needs to provide a viable resource for pet adoption agencies, breeders, and potential pet owners.
- Utilized a comprehensive dataset from Kaggle and performed extensive data cleaning and exploratory analysis. Employed machine learning algorithms to categorize breeds into optimal groups for different lifestyles, enhancing the compatibility between potential dog owners and their pets.
- Applied clustering (K-Means) and classification (Decision Trees) to categorize dog breeds. Leveraged R for feature normalization, custom function development, and predictive modeling.
- Created advanced visuals (e.g., cluster heatmaps, decision trees) to support findings.

WORK EXPERIENCE

AI TRAINER (Contract)
OUTLIER AI (Remote)   10/2024 TO PRESENT
- Work independently on assigned projects to test and evaluate training and facilitate the improvement of AI systems by creating and answering domain-specific questions. Evaluate AI-generated responses for accuracy and relevance, leveraging expertise to enhance the factuality and functionality of AI models. This role involves critical analysis and iterative feedback to optimize machine learning outcomes.

OWNER / OPERATOR
THE FAMILY PET SITTER, TAMPA, FL   2018 TO 2024
- Founder of a company that provided pet hospitality services off-site and in clients' homes, along with transportation for grooming and veterinary appointments. Managed business operations, accounting, client relations, and marketing initiatives.

PRO SHOP MANAGER
TERRACE HILL GOLF CLUB, TAMPA, FL   2015 TO 2018
- Managed daily operations of the pro shop, including opening and closing, customer relations, cash drawer balancing, merchandising, sales transactions, and recordkeeping in QuickBooks. Worked while taking a full course load in college.

Excellent References Readily Available Upon Request.