Bryce E. Bowles

Richmond, Virginia 23230
bowlesb94@gmail.com

Sample Work
bryce-bowles.github.io

804-551-0281
www.linkedin.com/in/bryce-bowles

Summary

Analyst Professional with 5 years' experience. I build and implement systems and models with data that solve problems, drive decision making and optimize processes using descriptive, predictive and prescriptive analysis.

Education

Masters of Decision Analytics (M.D.A.), GPA: 4.0 ***December 2021***
Virginia Commonwealth University, Richmond, VA

- Areas: Machine Learning, Optimization, Statistical Analysis, Predictive Modeling, Decision and Risk Analytics
- Elected into Phi Kappa Phi Honor Society (ΦΚΦ) *(extremely high election standards)*

B.S. in Business Administration (B.S.B.A), Management ***May 2017***
East Carolina University, Greenville, NC

Skills

- Machine Learning Concepts
- Decision and Risk Analysis
- Predictive & Optimization Modeling
- Project Management
- Relational DB Management
- Statistical Analysis (t-tests)
- Classification & Clustering
- Data Visualization

Tools

- Python (Pandas, Scikit Learn etc.)
- R (Dplyr, tidyr, Ggplot2, etc.)
- SQL, SAP Crystal, KNIME
- Snowflake, Tableau, MS Power BI

Work Experience

Senior Automated Systems Analyst ***February 2022 - Present***
Virginia State Corporation Commission (SCC) Richmond, VA
Build, implement, maintain and support analytics models and information systems that automate work tasks for the Virginia Bureau of Insurance (BOI) in support of insurance regulation.

- Lead multiple projects involving important information systems and analytical projects: Understand business needs, create requirements, identify appropriate data and analyses, create dashboards, present results to key stakeholders and leadership, maintain and provide advanced technical assistance.
- Collect data (structured and unstructured), preprocess, visualize and conduct descriptive, predictive and prescriptive analyses using a variety of tools to solve problems and enhance processes and decisions.
- Implemented emailing API system to save the Bureau over $300K and hundreds of work hours per year

Automated Systems Analyst (SCC) ***June 2018 - February 2022***
Serve as a Business Systems Analyst Liaison between the Bureau of Insurance (BOI) and Information Technology Division, assisting Automated Systems' Chief and Manager.

- Administer new system implementation: Facilitate software developers and line of business throughout each project application development cycle such as collect requirements, vendor research/system design, configuration, implementation, quality assurance testing, managing security role access etc.
- Lead analyst for a section's largest project in over 30 years (SB 1222) improving security of over 360K insurance agents' exam and fingerprint process with the goal of protecting the consumer. Built and presented dashboard analysis to stakeholders. Analysis was used to select the vendor and I conducted full implementation.

Associate Automated Systems Analyst (SCC) ***June 2017 - June 2018***
Support all computer-based systems and system related projects / processes utilized within the Bureau of Insurance.

- Work and collaborate as part of a multidisciplinary analyst team to administer, troubleshoot and improve numerous annual & quarterly system related projects and processes.

bowlesb94@gmail.com bryce-bowles.github.io

Relevant Projects (Sample Work - bryce-bowles.github.io)

Predictive Modeling, Clustering, Classification and Optimization - Lending Club Loan Analysis ***December 2020***

- Applied theoretical math and modeling knowledge to develop a full analytics workflow on real data accurately predicting, classifying, clustering and optimizing. Wrote high performing code *(R & RStudio)* to perform data preprocessing, visualization, cluster analysis, predictive modeling, and learning-enabled optimization for an optimal expected return. Developed full analytics workflow to 1. cluster and evaluate Principal Component Analyses of borrowers 2. Accurately predict loan status and 3. optimize loan portfolio.

Classification and Predictive Modeling Analysis – Alchemy Insurance ***November 2020***

- Built, trained, validated, and tuned (for prescriptive measures) four classification models (classification trees, logistic regression, random forests, and support vector machines) to accurately predict insurance broker performance on gross written premium. Evaluated, visualized, and described five groups of brokers using principal component analysis.

Optimization Modeling - Federal Reserve Bank (FRB) ***May 2020***

- 1st place of 30 in model competition. Applied relevant theoretical math knowledge to a real optimization problem using real data. I worked collaboratively with the FRB of Richmond IT Vice President to collect data, consult and clearly present the report. Built high performing (*Python, Pyomo and GLPK*) network optimization model to simulate reorganization of 1700 employee workspaces across 17 floors, while allocating for changing project teams and requirements.

Awards and Certifications

The Honor Society of Phi Kappa Phi (ΦΚΦ) VCU - Richmond, VA

Member *November 2021-Present*

- Elected to be a member of the nation's oldest, most selective, and most prestigious all-discipline honor society. The extremely high election standards consist of class standing, GPA and good character. Membership is by invitation only to VCU's top 10 percent of graduate students. (Certificate Link)

SCC Information Technology Committee Working Groups, Elected member of *May 2019-Present*

- Data Analytics – Work as a team to improve analytics systems within the BOI
- Communication – Assist, produce and write articles for the technology newsletters

Data Camp Certifications

- AWS Cloud Concepts *March 2022*
- Data Scientist Professional Certification *December 2021-Present*
  - Introduction to Python, R & SQL
  - Intermediate Python

References Available Upon Request

Past Recommendation Letters