Bryce Bowles

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[Sample Work](#) | [LinkedIn](#)

Summary

Data Scientist specializing in predictive modeling and statistical analysis, driving multi-million dollar savings through predictive insights and operational efficiencies. Proven leader in cross-functional collaborations and mentor to junior data scientists, known for translating complex data into actionable, strategic insights that support rapid, data-driven product development and market differentiation.

Professional Experience

Data Science Specialist

NewMarket Corporation - Richmond, VA | *July 2022 - Present*

- Develop, deploy and maintain major predictive Machine Learning (ML) models in collaboration with cross-functional science and business teams, resulting in a projected savings in the single-digit millions by accelerating product development and reducing costs.
- Lead ad-hoc statistical projects to drive data-informed insights in critical areas such as fuel efficiency and engine tuning.
- Mentor colleagues on best practices in data preparation, feature engineering and statistical modeling techniques.

Key Contributions:

- Led a team of three data scientists to develop five predictive models, achieving 12% increase in accuracy.
- Mentored NewMarket's first Data Science intern, supporting skill development and successful predictive modeling outcomes.
- Designed and implemented an enhanced model-building framework for the Data Delivery and Analytics team, streamlining development processes and increasing modeling efficiency.

Senior Automated Systems Analyst

Virginia State Corporation Commission (SCC) - Richmond, VA | *June 2017 – July 2022*

- Managed multiple analytical and information systems projects, conducting statistical analysis and business intelligence to address complex business challenges.
- Implemented an automated email mailing system, reducing operational costs and saving hundreds of work hours annually.
- Recognized for exceptional performance in business intelligence and data analytics, progressing from Associate to Senior Analyst

Notable Projects

Greenclean™ 4 Proof of Performance | *NewMarket Corporation* | *September 2024*

- Conducted comprehensive statistical analyses across multiple operational variables to identify key performance indicators, delivering conclusive insights on Fuels' detergent 'proof of performance' to support strategic product marketing.

Flucon Electrical Conductivity Prediction Models | *NewMarket Corporation* | *August 2024*
- Developed four ML models for curve predictions across 15 temperatures, achieving 7–28% higher accuracy over NIR. Engineered key features (intercept, slope, quadratic) to enhance predictive depth and model precision.

Education

Master of Decision Analytics (M.D.A.), Virginia Commonwealth University – Richmond, VA
GPA: 4.0 | Phi Kappa Phi Honor Society
Graduated: December 2021
- Relevant coursework: ML, Statistical Modeling, Data Engineering, Decision & Risk Analytics

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

Technical Skills

- Programming & Tools: R, Python, SQL, Snowflake, Excel, JMP, XLSTAT, Power BI, Tableau, R Shiny
- Machine Learning & Statistical Techniques: Regression (linear and non-linear), Classification, Clustering, Feature Engineering, PCA, Sensitivity Analysis
- Data Manipulation & Wrangling: R, SQL, Excel
- Visualization: R, JMP, Shiny, Power BI

Awards & Extracurricular Activities

Volunteer - *NewMarket United Way Committee | 2023*
- Assisted in the planning and execution of NewMarket's United Way day, supporting philanthropic efforts.

Elected Member - *SCC IT Committee Working Groups | May 2019- July 2022*
- Contributed to Data Analytics and Communication working groups, improving internal analytics systems and communications.

Phi Kappa Phi (ΦΚΦ) Honor Society – VCU | Inducted November 2021