Bryce E. Bowles

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Sample Work
https://bryce-bowles.github.io/

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Summary

- Results-driven Data Scientist with 6+ years of experience specializing in predictive analytics, machine learning, and statistical modeling. Proven track record in leading cross-functional teams, driving impactful projects, and optimizing complex business processes. Currently, a Data Science Specialist at NewMarket Corporation, excelling in the development and implementation of advanced machine learning models. Holds a Master or Decision Analytics and excels in data wrangling, feature engineering, predictive modeling and statistical analysis. Skilled in R, .jmp, SQL, and visualization tools (R, Shiny, MS Power BI).

Education

Master of Decision Analytics (M.D.A.), 4.0 GPA   *December 2021*
Virginia Commonwealth University, Richmond, VA
- Relevant coursework: Data Engineering, Statistical Analysis, Optimization, Decision / Risk Analytics
- Phi Kappa Phi Honor Society (ΦΚΦ) member

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

Work Experience

Data Science Specialist   *July 2022 - Present*
NewMarket Corporation - Richmond, VA
- Develop predictive and inference models using ML and statistical methods to optimize fluid formulations, resulting in increased accuracy, precision and reduced testing costs.
- Guided cross-functional teams to optimize fluid formulations, resulting in a significant increase in accuracy and a reduction in testing costs.
- Collaborate with business partners to design and implement machine learning projects addressing complex business problems.

Virginia State Corporation Commission (SCC) - Richmond, VA
Senior Automated Systems Analyst - *Promoted twice*   *June 2017 – July 2022*
- Managed and directed multiple projects involving information systems and analytical tasks.
- Conducted advanced descriptive, statistical, and business intelligence analyses to solve complex business problems.
- Implemented an emailing API system, reducing costs and saving hundreds of work hours per year.

Professional Experience (Sample Work - bryce-bowles.github.io)

Driveline Predictive Models   *May – August 2023*
- Successfully led a team of 3 data scientists to develop 8 predictive models resulting in 12% increase in formulation accuracy across the driveline additives division. These initiatives lead to substantial cost savings, waste reduction, enhanced resource efficiency and improved precision.

NewMarket Corporation Data Science Mentor   *May – August 2023*
- Mentored and developed Data Operations' inaugural intern, contributing to the enhancement of their skills and delivering impactful predictive models.

Skills

- Machine Learning: R and .jmp
- Statistical Inference, Regression, Classification, Clustering, Feature Engineering, etc.
- Data Wrangling: R and SQL – Data manipulation skills
- Visualization: R, Shiny, MS Power BI – Creates interpretable visualizations to tell a compelling story and paint a strategic vision.

Awards and Extracurricular Activities

Volunteer: NewMarket United Way Committee   *May 2023-Present*
- Collaboratively assisted in the planning and execution of NewMarket's United Way day, contributing to the organization's philanthropic efforts.

SCC Information Technology Committee Working Groups, Elected member   *May 2019- July 2022*
- Advanced contributions to Data Analytics and Communication working groups, improving analytics systems and technology newsletters.

The Honor Society of Phi Kappa Phi (ΦΚΦ)   VCU - Richmond, VA
- Inducted Member November 2021