BRYAN R. D'AMICO

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EDUCATION

Syracuse University, Syracuse, New York (online program), anticipated graduation date: December 2023
  Master of Science in Applied Data Science, current GPA: 4.00/4.00

Rhode Island College, Providence, Rhode Island
  Master of Arts in Teaching Mathematics, Overall GPA: 3.898/4.00

University of Connecticut, Storrs, Connecticut
  Bachelor of Science, Mathematics, Minor in Statistics, Overall GPA: 3.84/4.00; Magna Cum Laude, Honors Scholar Graduate
  University of Connecticut Academic Excellence Scholarship; Sophomore Honors Certificate

TECHNICAL SKILLS AND PROJECTS

- Proficient in R, including data preparation and manipulation, statistical analysis, information visualization using ggplot2 and Adobe Illustrator, and supervised and unsupervised machine learning
- Proficient in SQL including querying, database development, and database management
- Proficient in Python for data analysis and modeling, scripting, visualization, machine learning, natural language processing, and text mining including NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, and Statsmodels
- Creation of functional relational database, modeling production, sales, and HR departments of a fictional vineyard and populating a PowerBI dashboard
- Machine learning analysis of the physiochemical properties of wine as they relate to the quality of the wine. Techniques used include decision trees, random forest, association rule mining, clustering, and support vector machines
- Communication and leadership skills developed over 7+ years of classroom experience
- Problem solving, logic, and critical thinking as obtained in the study and instruction of mathematics

WORK EXPERIENCE

The Hartford, Remote
Associate Data Scientist; September 2023 – Present
- Actuarial Technologies and Innovations team for the commercial auto line of business
- Developing an R Shiny application to allow business partners to better understand predictive models
- Performing regular model monitoring

The Hartford, Remote
Data Science Intern; May 2023 – August 2023
- Performed data analysis, feature engineering of variables, and predictive model testing and development
- Created visualizations of results and presented findings to business partners and key stakeholders

Gar-Field Senior High School, Woodbridge, VA
Mathematics Teacher; August 2021 – June 2022
- Facilitated in-person instruction while also providing engaging course materials for students learning asynchronously
- Course creation and management, including the Canvas learning management platform and production of digital notes documents and instructional videos with mathematical content authored using LaTex documentation preparation language

Denken Solutions, Remote
Mathematics Subject Matter Expert and Content Developer; November 2020 – July 2021
- Worked with Pearson, develop content for the Algebra I, Geometry, and Algebra II Pearson Online Blended Learning courses in an Agile framework, validating mathematical principles and explanations
- Aligned content to state and national standards
- Facilitated publication of digital educational content for students of varied age levels in many subjects
- Worked in learning management and assessment authoring systems, including Cypress, Learnosity, and Connexus

Uxbridge High School, Uxbridge, MA
Mathematics Teacher; August 2016 – June 2020
- Focused on renewing assessment strategies, implementing student data in lesson planning and development, and recreating curriculum that better fits the needs of a diversity of learners
- Daily analysis of student performance data to adaptively engage students using constructive learning techniques

- Leadership in planning and managing special projects such as a school-wide extra-curricular authentic learning day, involving the assignment of teachers to different learning topics, management of student interest survey data, and establishment of relationships with community professionals