Peter Caya

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Technical Skills

Technology:

- R Data cleaning, database querying, and classification algorithms.
- Excel Proficiency with array formulas, index, and offset functions.
- SQL Server Wrote and modified queries to draw data from company databases.

Background:

- Data cleaning and validation.
- Hypothesis testing and econometrics.
- Visualization of data analysis.

Experience:

Quantitative Risk Analyst BNY Mellon September 2017 - Present

- Employ knowledge of statistics and exploratory data analysis to test assumptions in mathematical models and identify their weaknesses.
- Evaluated suitability of a behavior model used to estimate prepayments in \$ 50 billion mortgage portfolio using back-testing and bench-marking against alternative models.
- Replicate and compare regression models used to measure deposit rate sensitivity to the market rate by replicating model results.

Junior Business Analyst
Forensic Economics
January 2016 - August 2017

- Initiate securities fraud investigations by collecting, cleaning, and validating financial data from Bloomberg, Capital IQ, SEC EDGAR, and other sources.
- Assist expert witnesses in econometric analysis by using R to fit and compare statistical models for stock return behavior.
- Contribute to arguments in expert reports by summarizing statistical and econometric conclusions using data visualizations.

Teaching Assistant
Rochester Institute of
Technology
September 2013 - May 2015

- Ensured student understanding of course material by assisting in instruction and consulting with Professors regarding class progress.
- Contributed to classroom experience by overseeing project and class work and offering individual tutoring.

Graduate Researcher
Rochester Institute of
Technology
November 2013 - May 2014

- Evaluated effectiveness of kidney failure treatment by conducting hypothesis testing in R.
- Aided in research presentation by conveying data requirements, and meaning of statistical tests.

Projects and Presentations

An Introduction to R

St.Bonaventure University, 2016

- Delivered presentation and led discussions on uses of R for research and in the classroom.
- Discussed using exploratory data analysis, regression and plotting to generate demonstrations for class.

A Comparison of Optimization Methods for Elliptic Inverse Problems

Joint Mathematical Meeting, 2015

 Conducted convergence and performance analysis of optimization algorithms for parameter identification in second and fourth order elliptic partial differential equations.

An Introduction to R Programming for Financial Analysis

St.Bonaventure University, 2015

• Demonstrated the use of statistical programming by writing scripts analyzing commodity price movements to evaluate market entry opportunities.

Excel Instructor

Citigroup, 2013

- Presented tutorials on basic and intermediate Excel skills for securities processing analysts and management.
- Acted as a resource for other employees in the time saving uses of Excel and VBA.

Education:

Rochester Institute of Technology, Rochester, NY
Master's Degree in Applied and Computational Mathematics

St. Bonaventure University, Allegany, NY Bachelor's in Business Administration in Finance, Magna cum Laude