DANIEL MOSCOE

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SUMMARY

Experienced math educator pivoting to a career in data science. Master's degree in Data Science completed 12/2021. Specializing in data visualization and analytics, predictive modeling, and inferential statistics to drive evidence-based decision-making.

SELECTED PROJECTS

Please see portfolio at dmoscoe.qithub.io

Predicting Academic Outcomes with DAACS

- Developed an early alert system for academic risk, directing support to students before they fail a course
- Predictive models combine linear, tree, and non-parametric components
- Implemented in R on Amazon Elastic Compute Cloud

EIA Explorer

- Designed interactive visualizations on the web to show electricity generation dynamics across the US
- Implemented in Python with Pandas and Plotly

Moneyball

- Led a team of classmates to predict the performance of baseball teams
- Used R to perform feature engineering and construct linear regression models to minimize root mean square error

Telecom Churn Analysis

- Predicted which customers will attrite based on account information and local market research
- Used R to perform feature engineering and construct and evaluate logistic regression and random forest models

EDUCATION

City University of New York, School of Professional Studies

New York, NY

Master of Science in Data Science

2021

• Coursework includes Statistics, Python Programming, Simulation and Modeling Techniques, Predictive Analytics, Data Visualization

City University of New York, Hunter College

New York, NY

Advanced Certificate in Computer Science Education

2021

• Developed pedagogical strategies for intro CS concepts using Java and Python

City University of New York, Hunter College

New York, NY

Master of Arts in Adolescent Mathematics Education

2010

Cornell University, College of Agriculture and Life Sciences

Ithaca, NY

Bachelor of Science in Applied Economics and Management

2005

EXPERIENCE

Diagnostic Assessment and Achievement of College Skills (DAACS)

New York, NY

Data Analyst

2021

- Developed predictive models of undergraduate academic outcomes using R on Amazon Elastic Compute Cloud
- Presented findings directly to stakeholders at undergraduate institutions

Columbia Secondary School

New York, NY

Math Department Chair, Math Teacher

2015-2020

- Developed innovative curricular materials with a dual focus on mathematical rigor and effective communication
- Led professional development on evidence-based practices for effective feedback
- Strategized with administrators to coordinate instructional themes across content areas for middle school and high school
- Earned highest performance rating 2015-2020

William W. Niles School

Bronx, NY

Math Teacher

2011-2015

- Implemented standards-based grading with custom progress reports and individualized feedback using Microsoft Access
- Math for America Early Career Fellow

New Roots Charter School

Ithaca, NY

Math Teacher

2010-2011

- Founding geometry teacher
- Mentored students in advisory

ADDITIONAL INFORMATION

- New York Teacher Certification, Mathematics, grades 7-12; Computer Science, grades K-12
- Professional proficiency in Microsoft Excel
- Intermediate proficiency in SQL