

# DANIEL MOSCOE

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## SUMMARY

Experienced educator pivoting to a career in data science. Specializing in inferential statistics, predictive modeling, and data visualization to power evidence-based business decision-making.

## PROJECTS

### Predicting Academic Outcomes with DAACS

- Built ensemble models combining linear, tree, and non-parametric components using R on Amazon Elastic Compute Cloud
- Models underlie an early alert system for academic risk, directing support to students before they fail a course

### EIA Explorer

- Deployed interactive visualizations to the web using Python, Pandas, Plotly, and Dash
- Site shows how a state's electricity generation portfolio varies with consumption, and how energy intensity varies across states

### Moneyball

- Led a team of classmates to predict the performance of baseball teams
- Performed feature engineering, constructed linear models to minimize root mean square error

### Telecom Churn Analysis

- Predicted which customers will attrite using logistic regression
- Transformed Google Trends data to create a measure of competition among providers within a state

## 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

*Lead 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

**EDUCATION**

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**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
- GPA: 4.0

**City University of New York**, Hunter College

New York, NY

*Master of Arts in Adolescent Mathematics Education*

2010

- GPA: 4.0

**Cornell University**, College of Agriculture and Life Sciences

Ithaca, NY

*Bachelor of Science in Applied Economics and Management*

2005

- GPA: 3.75