LISA VANDERVOORT
DATA SCIENTIST

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Skills

PROGRAMMING
Python
SQL

TOOLS
AWS
Excel
Flask
Git/GitHub
Heroku
Jupyter
MongoDB
PostgreSQL
Streamlit
Tableau

LIBRARIES
Beautiful Soup
Facebook Prophet
Matplotlib
NumPy
Pandas
Scikit-Learn
Seaborn
Selenium

MACHINE LEARNING
Clustering
Decision Trees
Dimensionality Reduction
K-Nearest Neighbors
Linear Regression
Logistic Regression
Naive Bayes
Natural Language Processing
Random Forest
Regularization
Support Vector Machines
XG Boost

Education

St. Lawrence University
B.S. Mathematics (honors) and Psychology (honors), Minors in Applied Statistics and Education 2011
Summa Cum Laude, Phi Beta Kappa

National Louis University
M.A.T. Secondary Mathematics Education 2013
Professional Educator License, Issued June 2012

Experience

Metis
Data Scientist
Chicago, IL
June 2020 to Current
- 12-week immersive data science bootcamp focusing on the fundamentals of data science, including machine learning, statistical analysis, cloud-computing technologies, data visualization, and project design and planning

Rowe Elementary School
Director of High School Readiness
Chicago, IL
July 2016 to June 2020
- Developed tools, methods, processes, and materials for the high school readiness and alumni success team based on the mission and vision of Rowe Elementary School which resulted in more than $4 million in high school scholarships earned and a 300% increase in the number of students attending high schools with selective admissions processes
- Used data and qualitative experiences to codify knowledge of the high school process and high school preparation programs to produce a 600% increase in the number of students applying to and being accepted to rigorous high school preparation programs like High Jump, Daniel Murphy, and Jack Kent Cooke
- Managed short- and long-term projects and events under tight deadlines related to high school readiness and school strategic planning such as the high school application process and summer professional development for staff
- Managed the Director of Alumni Success and the 8th grade teaching team, supporting them in meeting short-term and long-term projects and tasks aligned to school goals
- Recipient of 2019 Northwestern Settlement's Staff Award for embodiment of the organization's core values
- Developed highly engaging and interactive curriculum, lesson plans, and assessments and used them to instruct 7th and 8th grade math classes and 7th grade after school math enrichment classes, as staffing needs arose, resulting in 83% of students meeting/exceeding NWEA growth goals, students achieving 283% of their growth goal met, and 100% of students meeting/exceeding grade level attainment

Rowe Elementary School
Middle School Math & Science Teacher
Chicago, IL
August 2014 to June 2016
- Implemented research-based, highly-effective data driven instruction, resulting in student attainment of grade level math content at the 89th percentile nationally, as measured by NWEA
- Developed and applied remediation and enrichment for students, resulting in student growth in math at the 92nd percentile nationally, as measured by NWEA
- Used Next Generation Science Standards and data to plan and develop curriculum for physical, life, and earth science that resulted in 96% of students meeting their end of year NWEA science goals

Teach For America
Math Content Team Leader
Chicago, IL
August 2013 to June 2014
- Collaborated with Teach For America Managers of Teacher Leadership Development to understand the state of student learning and teaching for middle and high school math teachers
- Facilitated adult learning sessions that used a variety of methods to transfer and strengthen corps member understanding of effective math instruction throughout the school year

DRW College Prep, A Campus of the Noble Network
10th Grade Math Teacher
Chicago, IL
August 2013 to July 2014
- Monitored and adjusted Geometry instruction according to student data, resulting in students making 1.25 years of growth in one school year
- Cultivated a passionate and urgent classroom culture of achievement focused around mastery, growth, goals, and college
- 2013-2014 Teacher of the Year

UNO Hector P. Garcia High School
10th & 11th Grade Math Teacher
Chicago, IL
July 2011 to July 2013
- Developed long-term plans and daily lesson plans for 10th and 11th grade Geometry and Algebra II classes, regular and honors, based on state standards that resulted in more than 50% of students meeting or exceeding their growth goals
- 2013 Teach For America Sue Lehman Excellence in Teacher Leadership Chicago Regional Nominee
- 2011-2013 Teach For America Chicago Corps Member

Projects

Forecasting Divvy Bike Share Demand During Covid-19 (Time Series Forecasting)
September 2020
- Built a PostGreSQL database using Chicago Divvy bike share data from January 2017-August 2020
- Used Facebook Prophet to forecast demand for Divvy bikes for the remainder of 2020 and identified major changes in Divvy consumer behavior during Chicago's phased reopening
- Built Tableau visualizations to highlight Covid Divvy ride share demand as a function of Chicago's phased reopening plan and shifts in consumer behavior

Analyzing How Millennial Women Spend Their Time & Money (NLP/Clustering/Recommender)
August 2020
- Used Beautiful Soup and Selenium to scrape 476 Refinery29 money diaries from January 2019-June 2020
- Created a recommender app that used Natural Language Processing, Non-negative Matrix Factorization, K-means Clustering, and Cosine Similarity to recommend 3 money diaries that are most similar for the user to read based on user input of age, salary, and mini diary of what they did the previous day

Predicting Love at First Sight (Classification)
July 2020
- Trained 2 classification models to predict 1) a match in a round of speed dating and 2) a date after a speed dating event, using the Speed Dating Dataset on Kaggle
- Used Scikit-Learn to train, evaluate, and optimize ROC AUC scores for a Logistic Regression model to predict match in a round of speed dating and a Random Forest model to predict a date after a speed dating event

Predicting University Graduation Rates (Regression)
July 2020
- Used Beautiful Soup and Python's requests to scrape data on 1600 4-year universities in the US from collegeresults.org
- Built linear regression model utilizing regularization techniques that maximized the coefficient of determination and minimized root mean squared error to predict university 5-year graduation rates based on school characteristics like the percentage of part-time students and GPA of applicants