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Kelsey Oros

Data Analyst with Certificate from Northwestern University and a background in education. Strong skills in SQL, Python, Tableau, Excel, Google Data Studio, and more. Mathematics and Integrated Math Education double major with proven dedication to encourage a data-led environment. Seeking to leverage my skills and experience to join a data-driven team committed to improving educational outcomes.

SKILLS

Expert: Mathematics, Programming (Python, SQL), Tableau, Google Data Studio, MS Office(Excel, PowerPoint, Word), Education metrics, Interpersonal skills, Public speaking, Organization, Time management
Advanced: Web development (JavaScript, HTML, CSS), VBA
Intermediate: Machine learning (Random Forest, scikit-learn), MongoDB

EDUCATION

Northwestern University Data Science Bootcamp **February-August 2020**
6-month intensive program focused on real-world problem solving using statistical techniques and technologies including SQL, Python, Tableau, VBA, Excel and more.

Miami University, Oxford, Ohio **August 2011-May 2015**
Bachelor of Arts in Mathematics
Bachelor of Science in Integrated Math Education

International Education **Summer 2013**
Progressed through eight European Countries while studying International Accounting and International Business Law.

EXPERIENCE

Lead Teacher:

Noble Network of Charter Schools, ITW David Speer Academy **August 2016-July 2020**

- Founding Honors Pre-Calculus, Honors Calculus, and Pre-Calculus teacher serving Juniors and Seniors
- Led professional development for all pre-calculus teachers across the network of schools
- Acknowledged for creating an exceptional curriculum and was compensated by Noble Network to provide it network-wide for new teachers to implement
- Tracked data using Tableau, Mastery Manager, and Excel to successfully reach SAT growth goals and inform instructional practices
- Improved 123 students' SAT scores by an average of 42 points on the math section, with a maximum growth of 200 points
- Regularly analyzed performance on assessments to achieve an average of 21 points growth for 120 diverse students by third quarter, projected to reach growth goal by the cancelled test date
- Chosen to teach an after-school SAT course for Juniors due to past score growth achievements
- Tailored instruction in after-school SAT sessions leading to an average of 32 points growth on the math section for the 34 enrolled students, with a maximum growth of 140 points
- Differentiated content based off SAT topic analysis in after-school SAT sessions for the 30 highest performing students, leading to an average of 24 and a maximum of 80 points growth on the math section

Morris School District, Morristown High School **March 2016-July 2016**

- Honors Geometry and Advanced Algebra II teacher

West Morris Regional High School District, West Morris Mendham High School **August 2015-February 2016**

- Advanced Geometry, Advanced Algebra 1, and Studies Algebra II teacher

Math-Related Work:

National Museum of Mathematics, New York City **Summer 2014**

- Interned at the MOMATH museum with the mission to make math interactive and intriguing for people of all ages
- Educated campers who ranged from K-8 revealing the complexities and applicability of math
- Floor display and exhibit interpreter answering any questions that visitors had. Scaffolding techniques heavily used to make math concepts understandable to all patrons

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DATA SCIENCE AND VISUALIZATION

Chicago Crimes https://github.com/MissWibbon/chicago_crime_data

- Collaborated with 5 colleagues to find trends in Chicago crime statistics such as type, location, and time
- Extracted, cleaned, and merged multiple csv files from City of Chicago using the pandas library
- Made API calls to Google Maps to create heat maps for years 2001-2020 depicting where most violent crimes occurred
- Utilized matplotlib and numpy libraries to create pie charts and bar charts depicting the types of crimes committed each year for 2001-2020
- Found trends in increases of crimes for certain times of the year by making scatter plots with lines of best fit
- Technologies Used: Python, Pandas, Matplotlib, Plotly, Numpy, GMaps

Movie Ratings https://github.com/gramlivingston/ETL_project

- Teamed with 2 classmates for 2 weeks to find correlations between the rating a film receives and the genre or cast
- Extracted 3 csv files from kaggle and read them in as pandas DataFrames
- Transformed the DataFrames by looping through columns and pulling out our desired information from columns containing dictionaries, dropped duplicate and empty rows, renamed and dropped columns
- Loaded the data into pgAdmin for advanced queries involving joins, groups, orders, and averages
- Technologies Used: Python, SQL, Sqlalchemy, Pandas, QuickDBD

Voting Preferences https://github.com/MissWibbon/media_souce_trends

- Partnered with 4 teammates to analyze google search trends of Fox News versus CNN articles from 2006-2020 and compared it to the 2008, 20012, and 2016 election data
- Extracted and merged the yearly google trend data
- Bound the data to a GeoJSON file with state outlines to create interactive maps of the United States
- Maps were color coded red or blue by state depending on search trends and had pop ups showing the data
- Technologies Used: Javascript, Leaflet, Mapbox, pgAdmin, D3, Flask, Heroku, JQuery, HTML, CSS, Bootstrap

Student Success Machine Learning https://github.com/MissWibbon/education-ml

- Worked jointly with 4 peers to create predictors revolving around educational outcomes
- Extracted, cleaned, and merged College Scorecard data from multiple years in Python
- Ran several machine learning models on the data to predict student success at universities
- Based off the different models, we found that cost and average standardized test scores were the greatest predictors for college completion
- Technologies Used: Python, Tableau, scikit-learn, Random Forest, Pandas, Matplotlib, numpy, seaborn

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VOLUNTEER WORK

Miami University Council of Teachers of Mathematics **August 2012-May 2015**

- Experienced math teachers provide instruction pertinent to reach all types of students present in todays' classrooms.

Miami Connections **August 2011-May 2014**

- Offered one-on-one and group assistance for at risk students at a local high school
- Emotionally and academically supported students in their quest to master math content

Autism Speaks **August 2013-May 2014**

- Focused energy as an active member to spread Autism awareness across Miami's campus.