






Kelsey Oros

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Available to Relocate

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https://kelseyoros.github.io/ 

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

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

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.