MICHAEL RIES

michaelries3020@gmail.com (330) 931-2323 Columbus, Ohio
https://www.linkedin.com/in/michael-r-79748a88/ mries14/Springboard

SUMMARY

Results-oriented and data-driven master's-level professional with training and experience in regression analysis, data cleaning, data mining, data modeling, data visualization, machine learning, and database design and management, with technical strengths in Python, R, SAS, SQL, Git, Tableau, Weka, MATLAB, HTML, CSS, JavaScript, Excel, and PowerPoint.

EDUCATION

Springboard Data Science Career Track Certification Feb. 2019 - Feb. 2020
Student in an online program consisting of 500+ hours of hands-on curriculum, with 1:1 industry expert mentor oversight, and completion of 2 in-depth capstone projects. Mastering skills in Python, SQL, data analysis, data visualization, hypothesis testing, and machine learning.

Rutgers University Graduate School Sept. 2015 - May 2017
Master of Business and Science (MBS) Analytics 2017
GPA: 3.7

The College of Wooster Sept. 2010 - May 2014
Bachelor Mathematics 2014
4-year letter-winner for the Fighting Scots' varsity baseball team
GPA: 3.4

EMPLOYMENT

Infoscitex, DCS Corp., *Modeling and Simulation Analyst*, Columbus, Ohio July 2020 - Current
Constructed military models of varying complexity in a simulation environment. Applied dynamic scripting techniques to produce modeled entity behaviors, supporting the longevity and reusability of simulation products. Collaborated with principal investigators and customer stakeholders to develop relevant technical approaches to meet study requirements. Contributed to the execution of modeling and simulation study plans. Coordinated with team members to analyze studies and present findings.

Freelance Analyst - Fantasy Football Aug. 2017 - Current
Built customized Python-based data collection and aggregation web scrapers for NFL games dating back to 2008. Data was stored in MySQL and retrieved and interpreted in Python and R. Used machine learning to develop fantasy football projection models based on historical statistical performance and matchup characteristics. Leveraged models to build weekly optimal lineups for fantasy football competitions resulting in 21% ROI.

Rutgers University Football - Analytics Team, *Intern* Apr. 2016 - Sept. 2016
Obtained data mining skills by scraping data from Twitter feed, CBS Sports, ESPN and other sources. Developed SQL skills from building the college football database for further analysis. Enhanced statistical analytic skills by using different classifiers to perform sentiment analysis. Demonstrated adaptability by collaborating with different teams, including: Data Scraping, In-Game Analysis, Twitter Sentiment Analysis, Data Visualization.

Health Design Plus, *Member Advocate* Aug. 2014 - Feb. 2015
Educated patients on the benefits of the Clini-Fit Travel Surgery Program. Coordinated travel arrangements for the patients who enrolled in the program. Managed confidential patient health information using Salesforce. Participated in the development and process improvements of the database used to manage the operations of the program.

NCAA, *Research Consultant* May 2013 - July 2013
Helped build a schedule generator for teams within the North Coast Athletic Conference using MATLAB and Excel that fit the constraints of the conference's sports contests. Saved the NCAC conference roughly $5,000 in travel costs for athletic events and reduced class time missed by student-athletes by 25%.

PROJECTS

Springboard Capstone 1: Predicting Outcomes of NFL Contests Apr. 2019 - Current
Built Python-based web scrapers for NFL games dating back to 2006. Data was put into .csv format and loaded into data frames in Python for cleaning. Once the data was cleaned, exploratory analysis led to preliminary trends and insights being discovered in the data. Inferential statistics techniques were used on the data to test for significant features and correlations. Used various machine learning algorithms to predict scores for NFL games. Predictions were tested against the NFL betting market, and a 7% ROI was discovered using this system. Built visualizations using Tableau and Python libraries to help formulate a story on why analyses and model-building were useful.

Rutgers Capstone Project: IMDB Movie Data Analysis Jan. 2017 - May 2017
Created binary prediction models for conditions: Academy Awards win (F1=82%), profit generation (F1=66%). Model analysis returned most impactful variables and their recommended values. Topic modeling of over 250,000 movie reviews.

AWARDS

Foster Prize in Mathematics, *The College of Wooster* Apr. 2014
This award is given to the most improved mathematics senior in the department.

STAR Award, *Infoscitex* Apr. 2021
Exemplary dedication and performance in support of the vision and goals of Infoscitex

STAR Award, *Infoscitex* Sept. 2021
Exemplary dedication and performance in support of the vision and goals of Infoscitex