I have always been intrigued by mathematical and statistical analysis, understanding the processes involved in real-world phenomena, and identifying solutions to difficult problems. In the past, this natural curiosity steered me to study numerous topics while in school and later helped me to graduate with a bachelor's degree in mathematics and a minor in statistics. On top of this, I have a *profound* interest in data analysis and modeling. My appetite for learning has led me to embark on a continuous quest for knowledge. I devote considerable time and effort into learning, refining, and practicing the required skills to make data science my career choice.

#### Education

#### M.S. Data Analytics

University of Central Florida, Graduation date of May 2021

Curriculum focusing on statistical methods, preprocessing data, visualization, machine learning, cloud computing and data storage techniques. Classes culminate in a project designed to test knowledge of learned concepts.

### **B.S. Mathematics + Minor in Statistics**

University of Central Florida, May 2015

Applied mathematics and statistics curriculum included machine learning adjacent studies, including differential equations, linear algebra and numerical methods.

#### **Work Experience**

Business Analyst August 2019 – present AeroCare Holdings Inc. (now AdaptHealth)

Enabled sales tracking through development of a proprietary customer resource management tool using an Agile production process. I assumed various roles as needed - project manager, business analyst, tester, trainer - allowing me to gain experience in multiple domains.

Math & Statistics Teacher, August 2016 – June 2019 Wekiva High School

Increased Algebra I student test scores by 8%, on average, over the year prior by using targeted remediation derived from data analysis.

Named *Most Impactful Teacher* by top 5% graduating senior.

#### **Completed Projects**

#### Consumer Propensity Model

Constructed user-movie ratings models, utilizing KMeans and Alternating Least Squares algorithms, and employed PySpark as part of a graduate school project focusing on machine learning using cloud computing techniques to identify consumer propensity towards unseen movies.

More information at

https://github.com/rybojones/MSDA-Recommendation-System

#### Natural Language Processing and Contextualization

Utilized natural language processing techniques to perform sentiment analysis and topic modeling for all U.S. Senate and House of Representative member Tweets in the month leading up to the 2020 Presidential election. These findings provided insight into the limitations of sentiment analysis on social media text and how context can be obfuscated when using such a technique.

Visuals at

https://public.tableau.com/profile/ryan.jones1301#!/

# **Open Projects**

# Binary Classification Using Domain Knowledge

I am participating in a joint organization (University of Central Florida – Orlando Utilities Commission) data science competition with the stated goal of disaggregating customer load usage in order to identify customers with an electric vehicle. I also have the added benefit of gaining experience working with large data (25+ billion records in some tables) in a SnowFlake database and learning how this affects data insight, cleaning and model selection.

# Time-Series Modeling and Prediction

Working as a member of a small consultancy team for Southern States ToyotaLift to fulfill my Capstone requirement for graduation. We have been tasked with predicting the point in time that the maintenance cost per hour becomes greater than the purchase cost per hour of a forklift. We are using SCRUM software development process as we create a model to fulfill the business specifications and implementing this workflow using GitHub.

# **Tags**

Python, R, SQL, Tableau, PowerBI, Excel, Git, Pandas, Numpy, SciKit-Learn, NLTK, Keras, PySpark, MPI4Py, Cloud Computing, Machine Learning, Matplotlib, Seaborn, Plotly, JavaScript, RMarkdown, GGPlot, Tidyverse, Jupyter, Observable

Please visit my personal website at <u>rybojones.github.io</u> for more information about me!