Eric James Knop

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EDUCATION

University of New Hampshire - Durham, NH **Expected: May 2020**
Master of Science: Analytics *GPA: 3.66*

SUNY Fredonia - Fredonia, NY **Graduated: May 2019**
Bachelor of Science: Business Administration with a concentration in Finance, cum laude *GPA: 3.54*
Bachelor of Arts: Economics
Minor: Statistics

- Dean's List: Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018
- Fredonia College Foundation's Arthur R. Maytum Scholarship: Spring 2018
- Fredonia's Department of Mathematical Sciences American Statistical Association Award: Spring 2018

TECHNICAL SKILLS

- ✓ **Programming:** Python(NumPy, Pandas, Scikit-Learn, Seaborn, Matplotlib), R(GGplot, Dplyr, Lubridate, Stringr, Tidyr, Markdown, Tidyverse, RSelenium, Rvest), SQL, C++.
- ✓ **Machine Learning/Statistics:** Classification(Naïve Bayes, SVM, Logistic), Regression(Multiple Linear),Classification and Regression(KNN, Random Forest, XGBoost), Clustering(K-means), Dimension Reduction(PCA, t-SNE).
- ✓ **Software:** Tableau, Tableau Prep, R Studio, Anaconda, HeidiSQL, JMP, Visual Studio, DevC++, Excel, PowerPoint, Word.
- ✓ **Business:** Strong decision making, teamwork, and interpersonal skills.

RELATED EXPERIENCE(UNH MS in Analytics Practicum Projects)

Riverstone – Manchester, NH **October 2019 – May 2020**
Data Analyst Consultant

- Create a proprietary cyber security framework based on various commercial/government frameworks, that detects suspicious behavior based on trends and logs using predictive models.
- Intend outcome is to using data mining techniques to create a model that can quickly detect threats to RiverStone's server's.

FreshAir – Lebanon, NH **October 2019 – May 2020**
Data Analyst Consultant

- Design, implement and test a statistical modeling system to process anomalies detected from a FreshAir device and compute the likelihood that smoking has taken place.
- Data is sourced from cloud-based mySQL database.
- Intend outcome is to present an ensembled predictive model that maximizes true positives and true negatives and minimizes false positives from datasets that I did feature engineering on.

RELATED PROJECTS

Self-Design Elective **August 2019 – December 2019**
UNH MS in Analytics Elective

- Web scraping Baseball Reference minor league baseball database to create predictive models that can predict major league runs created and FIP from minor league datasets using Python.
- Currently optimizing model by adjusting parameters in KNN, multiple linear regression and extreme gradient boosting algorithms.
- Data sources used: Lehman Database, Baseball Reference, PITCHf/x data from MLBAM.

EXPERIENCE

SUNY Fredonia – Fredonia, NY
Statistics Tutor **August 2017 – May 2019**

- Tutored college students for 4 hours a week.

- Tutored assigned college students with learning disabilities one on one weekly, for 2 – 6 hours a week.

JB Hunt – Rochester, NY **May 2018 – August 2018**

Operations Intern

- Managed carrier's pickups and deliveries, negotiated transportation rates, monitored in transit freight, and troubleshooted problems.

Tom Wahl's Restaurant – Avon, New York **March 2013 – January 2018**

Crew Member

- Started out at register taking orders. Advanced quickly to the main grill.

Store Trainer

- Continued on main grill and began training new employees.
- Cash count at end of shift, recording totals into excel, and preparing deposit slips during the day and at the end of the night.