MATTHEW KAYE

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in kayem20

mrkaye97

EXPERIENCE

Baseball Operations Fellow

Baltimore Orioles

Mar 2020 - Present

Baltimore, MD

- Solving modeling problems with a number of statistical and machine learning techniques, including Bayesian gamma hurdle regression, XGBoost and random forest classifiers, and nearest neighbor algorithms
- · Applying industry knowledge to improve model performance

Research Intern

Federal Reserve Bank of St. Louis

June 2019 - Aug 2019

- St. Louis, MO
- Prepared new data series from the BLS, IMF, and more for upload to FRED, using pandas for data wrangling
- Fit neural network and multinomial naïve Bayes models to apply correct descriptive tags to FRED series to improve search performance

Econometrics Teaching Assistant

Carleton College Department of Economics

Mar 2019 – June 2019

- Northfield, MN
- Ran semiweekly sessions to help econometrics students master course material, improve their R and LATEX skills, and hone their statistical intuition.
- Helped students complete homework assignments and projects and prepare for exams
- Graded homework assignments

Statistics Lab Assistant

Carleton College Department of Mathematics

Sept 2018 - June 2019

- Northfield, MN
- Explained and walked through examples of concepts in statistics courses, including (but not limited to) data cleaning, hypothesis testing, exploratory data analysis and visualization, and modeling
- Worked with students on important R and debugging skills

Real Estate Risk / Data Science Intern

Northfield Information Services

June 2018 - Aug 2018

Boston, MA

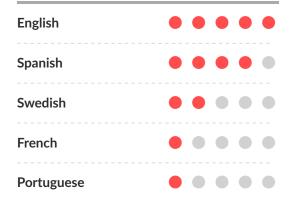
 Completed everyday data wrangling, data visualization, and ARIMA modeling tasks for the real estate risk team in R (dplyr, tidyr, data.table, forecast, etc.)

SKILLS

R Python Git SQL
Tableau Keras Java Excel
Pandas / Numpy / Scipy Tidyverse

Data Wrangling Data Visualization
Bayesian Modeling and Inference
Machine Learning

LANGUAGES



EDUCATION

B.A. Economics and Mathematics

Carleton College

Sept 2016 - Nov 2019

Economics Thesis: The Effect of Transit on Life Satisfaction: A Multilevel Modeling Exploration of Urban Happiness

Mathematics Capstone: Dynamic Linear Models and the Kalman Filter

Choate Rosemary Hall

Sept 2013 - June 2016

INTERESTS

