hugh.mccreery.jobs@gmail.com # Hugh McCreery (720) 326-5513

EDUCATION

COLORADO SCHOOL OF MINES, Golden, CO   May 2019
B.S., *magna cum laude*, Applied Mathematics - Statistics
Minor in Computer Science
Dean's List   Fall 2015 - Spring 2019

EXPERIENCE

BASEBALL ANALYST   Summer 2019 - Present
Baltimore Orioles, Baltimore, MD

- Used machine learning techniques in R and Python to effectively use Statcast data in team decisions.
- Created and maintained datasets with Python framework Django.
- Produced interactive data visualizations React and d3.js

DATA SCIENCE DEVELOPER INTERN   Summer 2018
Arrow Electronics, Centennial, CO

- Created a proof-of-concept product recommender system using Python to improve relevance of current recommendations to customers.
- Analyzed inventory data with Python to improve resource management and predict slow moving inventory.
- Used Agile principles to manage requests of business users.

STUDENT ASSISTANT - CONTROLLER'S OFFICE   Fall 2017 - Summer 2019
Colorado School of Mines, Golden, CO

- Assisting in maintenance of queries used in reporting.

SKILLS

- Use of Python, R, and MATLAB to perform statistical analysis
- Providing clear visualizations of data using ggplot2, matplotlib, and d3.js
- Construction of machine learning models within tidymodels, scikit-learn and keras
- Experience with relational (PostgreSQL) and non-relational (MongoDB) databases
- Creating professional documents in LaTeX

PROJECTS

NFL BIG DATA BOWL   January 2021
Used state-of-the-art player tracking data provided by the NFL to evaluate defensive skills and produced a shiny application to present results to potential decision makers.

CAPSTONE - OZONE POLLUTION   Spring 2019
Worked with NOAA to conduct research on a newly created dataset detailing global surface level ozone pollution. Examined the relationship between national economic growth and ozone pollution levels and used change point analysis to determine areas with significantly improving or worsening conditions.

SPATIAL STATISTICS - MERCURY POLLUTION ANALYSIS   Fall 2018
Implemented kriging methods in R to analyze mercury pollution data from the NADP and predict locations with potentially problematic levels of pollution outside of the dataset.