Hugh McCreery

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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

SENIOR DATA SCIENTIST, BASEBALL ANALYTICS — January 2021 - Present
ANALYST, BASEBALL ANALYTICS — May 2019 - January 2021
Baltimore Orioles, Baltimore, MD

- Used machine learning techniques in R and Python to convert player tracking data into metrics used in decision making.
- Create data pipelines using Python and Amazon SQS.
- Designed tools to help users access and analyze data through Django and React.
- Created interactive data visualizations with React and d3.js.
- Scraped and maintained a variety of 3rd party datasets with Python.

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.
- Used Agile principles to manage requests of business users.

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

- Assisted in maintenance of queries used in reporting.

SKILLS

- Creating clean and maintainable code in Python and R (tidyverse)
- Providing clear visualizations of data using ggplot2, matplotlib, and d3.js
- Construction of machine learning models within tidymodels and scikit-learn
- 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.