MAX BOLGER

Minneapolis, MN

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OBJECTIVE

Data scientist with 4+ years of experience in developing, automating, and scaling machine learning models in fast-paced, technical environments. Emphasizing clean, readable code, efficient, vectorized processes, and transparent, accessible documentation. Aspiring to develop data pipelines leveraging state of the art software to enhance businesses.

SKILLS

Proficient In	Python, SQL, R, Spreadsheet Software, Conda, Spark, Tableau
Technical Skills	Data Science, Machine Learning, Data Visualization, Dashboards, Web Scraping, A/B Testing, Big Data, Version Control, Statistics, Binomial and Poisson Processes
Soft Skills	Problem Solving, Emotional Intelligence, Dependability, Determination, Communication

EXPERIENCE

Data Scientist May 2021 - Present
Optum - subsidiary of UnitedHealth Group *Minneapolis, MN*

- Sole developer, maintainer, and owner of a family of 6 different fully-automated, production-level machine learning pipelines that, daily, predict engagement probabilities in different capacities for millions of members across various Optum at Home business sectors by using a data science stack of python (pandas, numpy, scikit-learn, sqlalchemy, and more), SQL, and batch scripting, all version controlled by conda. These models have resulted in a 10% increase in scheduling efficiency. Developed a Tableau dashboard dedicated to reporting for each of the 6 pipelines.
- Created an automated pipeline for a QA call selection process that assigns calling agents and a specific subset of their calls to call auditors, abiding by a lengthy list of business/pairing rules. This was previously a strenuous manual process that took hours each week for the client but is now provided and automated for them.
- Improved a variety of out-dated machine learning models yielding accuracy increases of up to 7% and propensity calibration tenfold via model selection and hyperparameter optimization, cleaning the codebase to abide by python's PEP8 style guide, and increasing computational efficiency using vectorized operations.

Data Science Associate Dec 2019 - May 2021
Hamline University Marketing Analytics Clinic (HUMAC) *St. Paul, MN*

- Led the data science team in developing data-driven business solutions for Twin Cities small-businesses.

PROJECTS

WNBA Player Dashboard Developed a streamlit dashboard that visualizes a variety of statistics - including proprietary metrics leveraging my WNBA shot probability machine learning model - for any of the 990 WNBA players to attempt a shot between 1996-2021. View it here!

Voting Classifier App Developed a streamlit web app that visualizes decision boundaries for a scikit-learn voting classifier and the models it consists of using the Palmer Penguins dataset. View it here!

EDUCATION

B.S. Computational Data Science, Hamline University
Minors: Business Analytics, Economics – GPA: 3.9