MAX BOLGER

Minneapolis, MN
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OBJECTIVE

Data scientist with 5+ 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, Spreadsheet Software, Conda, Snowflake, Databricks, Tableau, R, Spark
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 10+ fully-automated, production-level machine learning pipelines
  - Predict engagement probabilities in different capacities for millions of members daily across various Optum at Home business sectors in order to optimize member engagement and outreach initiatives while also decreasing member abrasion
  - End-to-end machine learning pipelines consisting of data aggregation and preprocessing, feature engineering, feeding to a model, hosting scores, and QA checks
  - Developed Tableau dashboards dedicated to reporting and performance monitoring for each model
  - Resulted in 11% increase in scheduling efficiency, driving shareholder value with $50M+ revenue annually
- Developer, maintainer, and owner of an automated pipeline for a QA call selection process that seamlessly assigns phoning agent calls to call auditors at scale
  - Adhered to strict and lengthy list of business/pairing rules by originating complex logic
  - Strenuous manual process taking many hours each week for client is now automated and scaled
- Improved code readability, computational efficiency, and performance metrics for a variety of out-dated machine learning models
  - Accuracy increases of up to 7% and propensity calibration tenfold via feature engineering and selection, model selection, and hyperparameter optimization
  - Refactored codebase to abide by python's PEP8 style guide
  - Improved computational efficiency by transforming scalar operations to vectorized operations

PROJECTS

WNBA Model and Dashboard Developed a WNBA shot probability model accounting for every shot attempt in WNBA history (1996-present). A streamlit frontend leverages the model and visualizes a variety of statistics, some of which are proprietary. This project required advanced knowledge of web scraping, data wrangling, machine learning, data visualization, and dashboard development with python. Awarded 1st prize in the Lund Speaking Competition.

EDUCATION

B.S. Computational Data Science, Hamline University – GPA: 3.9 2018 - 2022
Minors: Business Analytics, Economics
MinneAnalytics Data Science Scholarship Recipient