Alex Zajichek

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Experience

Data Scientist, November 2020-Present
Aspirus Health, Wausau, WI

- Created an ETL process in Qlik Sense to process raw data files and achieve centralized, standardized, and readily access to insights from the Vizient Clinical Database
- Developed R Shiny applications to explore "what-if" scenarios, identify areas of improvement, and assess financial impact on Quality programs
- Built analyses in R Markdown to provide annotated, reproducible data stories around key clinical measures

Advanced Analytics Modeler, December 2019-October 2020
Sentry Insurance, Stevens Point, WI

- Built a text mining tool in Python's spaCy framework to extract patterns from claim notes
- Integrated producer activity text data into predictive (ML) models to enhance prospect prioritization
- Created Tableau dashboards to explore geographic impact of pricing models and underwriting issues
- Wrote SQL queries in SAS to extract data from various sources and build analysis datasets

Biostatistician, June 2017-December 2019
Cleveland Clinic, Cleveland, OH

- Built, automated, and operationalized a predictive model to identify patient's at high risk for appointment no-show
- Developed R Shiny web applications to implement risk prediction models for clinical use
- Wrote SQL queries to extract EHR data utilizing the UMLS
- Consulted with pharmaceutical companies on EHR-based health outcomes research projects

Skills

General
Concurrent project management, communication of project specifications and results, automating processes/workflows, collaboration and leadership

Technical
R (tidyverse, ggplot, shiny, H2O); SQL; Python (pandas, spaCy); QlikSense; Java; data cleaning, manipulation, visualization; building statistical workflows; text analysis, regular expressions

Methodology
Regression modeling (GLM's, GEE's, mixed models), survival analysis, machine learning (random forest, gradient boosting machines, neural networks), natural language processing (NLP)

Education

M.S. in Statistics, 2017
University of Iowa
Iowa City, IA

- Major GPA: 3.93

B.S. in Statistics, 2015
UW-La Crosse
La Crosse, WI

- Major GPA: 3.91
- Minor: Computer Science

Projects

- R package for Naive Bayes' document classification with Java backend
- Gibbs' sampler in Python
- Custom database language in Java with a hash index and random access files

Coursework
applied statistics, statistical inference, computer intensive statistics, machine/statistical learning, model selection, sports statistics, bayesian statistics, applied time series, nonparametric statistics, categorical data analysis, database management, software design (Java), calculus I-III, linear algebra