Robert J. Gambrel

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PROFESSIONAL DATA SCIENCE EXPERIENCE

Data Scientist, Intermedix   November 2017-June 2018
Data Specialist, Intermedix   December 2016-November 2017
Used SQL to prepare raw electronic health records for machine learning models
Used R and Python machine learning libraries to identify miscoded records
Used machine learning approaches to predict denied claims before submission
Prepared client-facing reports on findings using Tableau and R Shiny
Used public CMS data and clustering to identify hospitals' nationwide peers for benchmarking
Publicized business capabilities with blog posts and research papers
Automated data flows using Python and software API's
Developed web-scraping capabilities for market research
Prepared and presented findings for client and executive use

Health Policy Data Analyst, Vanderbilt University School of Medicine   March 2015-December 2016
Served as lead data analyst on multiple concurrent projects analyzing Medicare claims
Analyzed cost trends and treatment patterns in Medicare claims data using SAS and SQL
Developed a novel grouper algorithm to aggregate post-acute expenses from a variety of claims data sources
Performed merging and cleaning of both in-memory data and SQL databases
Developed R programs to impute missing data and correct data entry errors based on fuzzy string matching
Prepared graphs and tables for publication

Research Assistant, University of Minnesota   July 2013-May 2015
Cleaned and prepared survey data for analysis
Tested for missing data and imputed values where appropriate
Conducted multivariate, multilevel analyses and prepared results for publication

SOFTWARE EXPERTISE

Languages and Select Packages
- R: dplyr, ggplot2, tidyr, Shiny, function and package writing
- Python: pandas, numpy, government database APIs, web scraping
- SQL: SQL Server, MySQL, PostgreSQL
- Git: introduced version control for internal projects, GitHub
- Tableau

EDUCATION

Master of Science, Analytics   expected 2020
Georgia Institute of Technology, Atlanta, GA

Master of Arts, Political Science   2014
University of Minnesota, Minneapolis, MN
Subfields: Political Economy, Quantitative Analysis
Supporting Program: Applied Economics

Bachelor of Arts, Public Policy and Spanish   2008
Vanderbilt University, Nashville, TN
Summa Cum Laude, Phi Beta Kappa