

Robert Brown

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SKILLS

Programming Languages: Python, R, SQL, SAS, Bash, Javascript, HTML/CSS, LaTeX

Tools: Pandas, NumPy, Scikit-learn, TensorFlow, AWS, Matplotlib, ggplot2, Flask, Shiny, D3.js, Dash, Tableau

Machine Learning/Statistics: regression, ensemble methods, dimensionality reduction, regularization, clustering, NLP, neural networks

EXPERIENCE

Health Data Science Fellow, *Insight*, San Francisco, CA 9/2020 - present

- Consulted with a San Francisco Bay Area county to provide a churn model to using behavioral health records which will provide alerts to providers and case managers to improve treatment retention
- Used advanced SQL querying to bring together up to 10 various tables, and engineered features such as generating a health score based off time series momentum
- Used survivor analysis to generate a probability of churning over time as well as built a binary classifier using logistic regression with lasso regularization to achieve 78% ROC AUC

Epidemiologist II, *Alameda County Department of Public Health*, Oakland, CA 8/2018 - 9/2020

- Developed time-series, clustering and predictive analytic reports and dashboards using R, SQL, ArcGIS and SAS to track spread and prevalence of 70+ communicable diseases, such as HIV, TB and COVID-19, in Alameda county
- Provided leadership for the Incident Command System (ICS) response for the county against COVID-19 as the Data Branch Chief, managing up to 25 staff members including other epidemiologists, analysts and project staff
- Built the counties first COVID-19 case and contact investigation database, that contained over 15,000 records and 120 users complete with batch file versioning, a SQL Server backend, and many advanced VBA features

Resident Data Scientist, *Method Data Science*, Remote 11/2018 - 4/2019

- Created an ensemble machine learning algorithm (R) to predict if and when a hip replacement surgery will be needed using EHR and insurance data for a Bay Area biotech start-up with 77% AUC
- Developed a Dash (Python) dashboard using unsupervised learning to segment customers to create targeted marketing resulting in 13% increase in customer base within 6 months

Statistician, *UCSF*, San Francisco, CA 5/2017 - 8/2017

- Consulted with several research teams to provide multiple high dimensional figures, and provided mathematical modeling and statistical for publications on multi-drug resistant tuberculosis (R)
- Provided multiple imputation on survey question that was systematically missing by sourcing comparable datasets resulting in being able to use validated survey tool

EDUCATION

MPH in Epidemiology and Biostatistics, UC Berkeley – Berkeley, CA May 2017

B.S. in Neurobiology, Physiology and Behavior, BA in Psychology, UC Davis – Davis, CA May

