

Murray Keogh

Skills

Domain Knowledge - Data Processing and Visualization, Frequentist and Bayesian Statistics, Linear/Non-Linear Regression, Causal Inference, Time Series Analysis, Survival Analysis, Machine Learning

Languages - R, Python, SQL

Software - SAS, SPSS, Tableau, Excel

Healthcare - Epic EMR, Medical Coding, Quality and Outcome Indicators

Other Competencies : Git Version Control, Project Management, Process Improvement, Lean Six Sigma

Work Experience

Business Intelligence Specialist, *UCSD Health System*, February 2016 to February 2021

- Managed the transition of multiple organizational dashboards from Excel to Tableau, saving 60-80 weekly hours for staff.
- Co-developed the Covid-19 Capacity Forecast Dashboard used daily by operational leaders to track census and forecast capacity issues.
- Created census forecasting models to aid senior decision makers on the most optimal way to decrease hospital census in response to planned strike of nursing staff.
- Co-designed and implemented a hospital command center in the Patient Flow and Capacity Management department. Results included an hour decrease in bed turnover time and a 5% increase in daily discharges
- Managed process improvement project to decrease the average length of stay in Bone Marrow Transplant patient population. A new admission process was created, resulting in a length of stay decrease of 1.3 days.

Junior Data Scientist, *Verizon Wireless*, Orangeburg, NY, August 2014 to December 2015

- Supported and improved predictive models used in churn management, leading to industry leading low churn rate.
- Created segmented customer profiles of churned accounts leading to increased customer intelligence and more effective, targeted marketing retention campaigns.

Research

Master's Dissertation, *Causal Inference Methods to Evaluate Multiple Programs in the Child Protection Service System*, 2021

Education

University of New South Wales, School of Medicine. Sydney, NSW
Master's of Health Data Science, Expected Graduation August 2021
Cornell University, College of Engineering. Ithaca, NY
Bachelor of Science in Operations Research Engineering 2014

Other

Github Profile : github.com/Murrkeys

Personal Website : murrkeys.github.io/

Lean Six Sigma Black Belt Certificate, University of California – San Diego Extension