Murray Keogh

SKILLS & TOOLS

- Python •
- pandas | numpy | scipy •
- scikit-learn •
- **Git Version Control**
- Machine Learning
- **Time Series Analysis**

WORK EXPERIENCE

UC San Diego Health System Business Intelligence Specialist

- Managed the transition of multiple organizational dashboards from Excel to Tableau, saving 60-80 • weekly hours for staff.
- Built novel data sources representing patient flow, environmental services, and nurse staffing. The • data sources required complex SQL queries and data ingestion from third party staffing software.
- Developed novel Tableau dashboards, including statistical control charts and time series analysis, • used by leaders across multiple departments for daily management and process improvement.
- 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.

Verizon Wireless Junior Data Scientist

- 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.

EDUCATION

University of New South Wales, School of Medicine Master of Science, Health Data Science Sydney, NSW Thesis : Causal Inference Methods to Evaluate Multiple Programs in the Child **Expected August 2021** Protection Service System

Cornell University, College of Engineering Bachelor of Science, Operations Research Engineering

CERTIFICATIONS

Lean Six Sigma Black Belt, UC San Diego Extension

February 2016 - February 2021

August 2014 - December 2015

Ithaca, NY May 2014

- Tableau Excel
- Data Visualization

R

R Shiny

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Survival Analysis

- SQL
- Epic EMR
- SAS
 - Lean Six Sigma
 - **Regression Techniques**
 - **Causal Inference**