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Technical Skills

LANGUAGES

• R, HTML/CSS, Python, Unix

STATISTICAL MODELING

- Linear and non-linear regression modelling, including analysis of continuous; discrete; non-normal; cluster-correlated; longitudinal; time-to-event (survival analysis); and time series data
- Design and evaluation of A/B tests, including step-wedged; cluster-correlated; and multi-group experiments
- Handling of missing data using multiple imputation

DATA SCIENCE

- Supervised and unsupervised machine learning methods, including xgboost, PCA, and clustering methods
- Effective communicator with strong instincts on deriving business value from data products
- Proficient in process automation, parallel processing, model development, model validation

Recent Experience _

LKS-CHART - St. Michael's Hospital

Toronto Canada

JUNIOR DATA SCIENTIST

September 2018 - Present

- Developed and deployed machine learning models and decision algorithms in a hospital setting to improve operational inefficiencies and patient outcomes.
- Developed a fully-integrated Shiny app with built-in optimization modeling that is used by the St. Michael's Hospital Emergency Department for daily nurse assignment.

Applied Health Research Centre - St. Michael's Hospital

Toronto, Canada

STATISTICIAN

July 2016 - September 2018

- Conducted statistical analysis and consulted on the design of international, multi-center clinical trials, with notable publications in the New England Journal of Medicine and Ophthalmology.
- Lead statistician of large observational registry of pediatric subjects, with notable publications in The Journal of Pediatrics and The American Journal of Clinical Nutrition.

St. Joseph's Healthcare Hamilton

Hamilton, Canada

STATISTICAL ANALYST

June 2015 - July 2016

• Lead statistical analyst of a large observational cohort, with notable publications in The Journal of Allergy and Clinical Immunology and The European Respiratory Journal.

Education _

University of Toronto

Toronto, Canada

MSc, BIOSTATISTICS (GPA 4.0/4.0)

2015

2014

University of Toronto

Toronto, Canada

Honours BSc, with High Distinction (GPA 3.8/4.0)

JUNE 2019 DAVID DAI · RESUME 1