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Technical Skills

PROGRAMMING PROFICIENCIES

- R (advanced), Python (literate)
- HTML/CSS (intermediate), Javascript (intermediate)

STATISTICAL AND MACHINE LEARNING PROFICIENCES

- Strongly proficient in statistical modeling, including analysis of continuous; discrete; non-normal; cluster-correlated; longitudinal; time-to-event (survival analysis); and time series data
- Broadly proficient in contemporary machine learning algorithms, including xgboost (advanced),
 PCA (advanced), deep learning (basic), and natural language processing (basic)
- Strongly proficient in experimental design, model validation, resampling methods, and model evaluation

MISCELLANEOUS PROFICIENCIES

- Git (intermediate)
- Docker (intermediate), Kubernetes (basic)
- · Comfortable with Unix environment

Recent Experience

LKS-CHART - St. Michael's Hospital

Toronto, Canada

SENIOR DATA SCIENTIST

January 2020 - Present

- Developed team-wide data science workflows to promote reproducibility and stability of data science applications.
- Developed and deployed machine learning models and decision algorithms in a hospital setting to improve various operational inefficiencies and patient outcomes.

LKS-CHART - St. Michael's Hospital

Toronto, Canada

JUNIOR DATA SCIENTIST

September 2018 - January 2020

• Developed a fully-integrated web application 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

University of Toronto

Toronto, Canada

HBSc, with High Distinction (GPA 3.8/4.0)

2014