PETER TEA

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WORK EXPERIENCE

Data Science Intern - Sports Media Technology (SMT) Corporation   Jun 2021 - Present
- Automated the labelling of hockey events with NHL tracking data — significantly reducing quality assurance costs and improving label accuracy.
- Fit regression models to provide entertaining insights on player performances and team strategies.

Data Science Co-op - Aquatic Informatics   May - Aug 2020
- Validated Neural Network predictive algorithms on out-of-sample time series data. Recommended algorithm changes to enhance user experience while also maintaining $\geq 94\%$ prediction accuracy.
- Reported key performance indicators with an interactive dashboard — developed with *plotly-dash* — allowing managers to make informed, data-driven decisions in a timely fashion.

Quantitative Analyst - Canada Revenue Agency   Sep - Dec 2020
- Implemented hierarchical clustering algorithms on corporation data to estimate tax evasion metrics.
- Presented summaries of complex tax data to management and advised on future strategic plans.

R Consultant - SFU Research Commons Library   Sep - Apr 2020
- Provided individual and group consultations to graduate researchers on data wrangling, visualization and statistical analysis (eg: ANOVAs) to advance ongoing research project deliverables.
- Assisted in **R** and **Python** workshops to effectively communicate programming concepts for beginners.

EDUCATION

Simon Fraser University   2019 - 2021
Master of Science in Statistics
Awards: Natural Sciences and Engineering Research Graduate Scholarship, Dean's Fellowship

University of Ottawa   2014 - 2019
Honours Bachelor of Science - Biostatistics (*Summa Cum Laude*)
Award: Natural Sciences and Engineering Undergraduate Research Scholarship

DATA PROJECTS

Master's Thesis: Analysing Tennis Serve Decisions with Bayesian Models   Jan - Jul 2021
- Fit Bayesian Hierarchical Multinomial Logit models describing player decisions in tennis matches.
- Automated data collection from an API and catalogued spatio-temporal features into a tidy database.

Tennis Analytics Blogger - Part Time at http://on-the-t.com/   Jun 2019 - Present
- Visualized serve strategy patterns with shot density heatmaps: A Spatial Exploration of Serve Patterns.
- Predicted ace rates with Regression models, and summarized trends with interactive visualizations.

MIT Sloan Sports Analytics Conference Hackathon   Mar 2020
- Applied Logistic Regression to predict the success of shots using shot release angles and velocities.
- Created visual representations of college basketball player tracking data with ggplot and gganimate.

TECHNICAL SKILLS

Statistical Tools: R, Python, SQL, SAS, SPSS
Other Tools: Git, BASH, LaTex, Markdown