PETER TEA

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WORK EXPERIENCE

Data Scientist - Sports Media Technology Jun 2021 - Present

- Prepare dashboards (rshiny, d3.js), ad-hoc analyses and reports supporting data-driven decisions.
- Collaborate with creative teams to present engaging tennis stats for social media and TV broadcast.
- Develop algorithms for quality assurance to prepare data for exploratory analysis and modeling.

Data Science Intern - Aquatic Informatics May 2020 - Aug 2020

- Recommended improvements to existing platform capabilities, including providing supporting analyses to justify task prioritization.
- Organized KPI trends with interactive dashboards (plotly-dash), simplifying data-driven decision tasks.

Data Research Consultant - SFU Research Commons Library Sep 2020 - 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.

Quantitative Analyst Intern - Canada Revenue Agency May 2019 - Aug 2019

- Implemented hierarchical clustering algorithms on corporation data to estimate tax evasion metrics.
- Presented results and summaries of complex data to managers and advised on future strategic plans.

Junior Policy Analyst - Transport Canada Jun 2018 - Apr 2019

- Reported global trends in transportation safety to senior management, impacting policy changes.
- Collaborated with stakeholders to compile informative risk assessment reports and addendum notes.

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 Sep 2020 - Jul 2021

- Fit high-dimensional Bayesian models predicting the likelihood of player decisions in tennis matches.
- Automated data collection from web-scraping plus APIs and catalogued features into a tidy database.

Analytics Content Contributor - `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.

TECHNICAL SKILLS

Statistical Tools: R (rshiny, dplyr, ggplot), Python (pandas, plotly), SQL, SAS
Other Tools: Git, D3, HTML, CSS, BASH, LaTex, Markdown