Matthew Connell-Tombs

SUMMARY OF SKILLS

- Knowledge of programming and machine learning concepts and their application in Python (numpy, pandas, scikit-learn, XGBoost), R, SQL, and SAS
- Proven proficiency in Microsoft applications, with advanced knowledge of Excel, including VBA coding, data management, information extraction and visualizations tools
- Proven ability to learn quickly and adapt to dynamic environments and projects
- Strong time management skills with the ability to manage multiple assignments and deadlines while maintaining an excellent quality of work

WORK EXPERIENCE

Statistical Services Analyst

Canadian Life and Health Insurance Association – Toronto, ON   September 2023 – Present

- Aiding in the maintenance and development of a SQL database, ensuring data integrity and troubleshooting data quality issues
- Managing industry surveys and enhanced analytical solutions to support policy objectives
- Creating visualizations and dashboards to effectively communicate statistical results and highlight industry trends

Data Analyst Co-op

Samos – Waterloo, ON   September 2022 – December 2022

- Created a Natural Language Processor (NLP) in Python to categorize user-inputted text into categories of medical procedures
- Conducted web scraping to collect and compile data from multiple websites to create a dataset for training and testing models
- Presented findings and recommendations from NLP model building to stakeholders

Data Science Co-op

Aviva Canada Inc. – Markham, ON   January 2022 – April 2022

- Aided team in designing, testing, and documenting a commercial general liability model
- Created an app in Python to allow users to compare policy premiums under the current algorithm and a selected model algorithm
- Updated visual tools in Python to allow for easier comparison of premium models

Actuarial Analyst Co-op

Allstate Insurance Company of Canada – Markham, ON   May 2021 – August 2021

- Led analysis, compiling and filing of an automobile endorsement rate change
- Aided in DCPD rate change filings for miscellaneous lines by writing SAS code to analyse premium impact, calculating offset factors and completing filing documents
- Updated and ran monthly and quarterly Extension of Exposure programs using SAS

Actuarial Business Co-op

Swiss Reinsurance – Toronto, ON   September 2020 – December 2020

- Investigated and reported the impacts of IFRS 17 on current and future reporting requirements
- Reviewed P&C reinsurance treaties to ensure smooth transition in adopting IFRS 17
- Created and presented presentations summarizing key impact points of IFRS 17 and needed changes moving forward

Actuarial Analyst Co-op
Royal & Sun Alliance Insurance Company of Canada – Toronto, ON   January 2020 – April 2020
- Developed and improved existing analytical tools such as rate calculators to allow for easier checking of policies and updating of files
- Wrote SAS code to identify potential errors and investigated inconsistencies in data tables
- Aided in the compiling and filing of multiple automobile rate change requests

VOLUNTEER EXPERIENCE

Excel Tutor
CAUSE Tutoring   April 2021 – November 2021
- Provided one-on-one, personalized tutoring through a charity that aims to eliminate barriers to education for vulnerable members of the community
- Created weekly lesson plans and practice problems on Excel to help my student achieve their educational and career goals

EDUCATION

Master of Data Science
University of Texas at Austin   September 2024 – Ongoing

Bachelor of Mathematics
Major in Statistics, Minor in Actuarial Sciences
University of Waterloo   September 2018 – June 2023

Relevant Courses Include:

- Statistical Learning - Advanced Regression
- Computational Statistics and Data Analysis
- Generalized Linear Models and their Applications
- Computer Applications in Business: Databases
- Algorithmic Problem Solving
- Mathematical Statistics
- Applied Probability

ACTIVITIES & INTERESTS

Independent Coding Projects   2018 – Present
- Image Detection Models
- Clustering Models
- Regression Models
- Data Scraping
- Video Game Development

Long Distance Runner   July 2023 – Present
Pole Vaulter, Bolton Pole Vaulting Club   September 2015 – July 2018