Sky Allinott

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WORK EXPERIENCE

Government of Alberta   **October 2022 - Present**
Data Scientist (Automobile Insurance Rate Board)   *Edmonton, AB*

- Leveraged the Cloudera platform to deploy R Shiny applications to the cloud.
- Improved data accessibility within the organisation by utilising SQL to create Power BI dashboards.
- Utilised industry and Statistics Canada data with R and Python to create studies into the market.
- Lowered expenses for third-party actuaries by more than $10,000 by reviewing advanced filings internally.
- Utilised Git for version control, documentation and project management.
- Presented studies and complex statistical topics monthly to our board.
- Provided the data and narrative for our annual Market and Trends report, which is published on our website.

University of Alberta   **August 2022 - December 2022**
Research Contractor (Department of Economics)   *Edmonton, AB*

- Constructing a rich panel dataset (4 million rows, 100+ features) on Edmonton and Calgary real estate.
    - Created measures on crime, transit accessibility, development activity, pollution levels and more.
    - **Insight:** Half the properties in the City do not live within 1 kilometre of a grocery store.

City of Edmonton   **May 2021 – September 2021**
Business Analyst Student (Urban Planning and Economy)   *Edmonton, AB*

- Determined if City initiatives to reduce permit timelines were successful using internal permit data.
    - Communicated the success and failure of these initiatives regularly to senior leadership.
    - Shared with the public by Mayor Amerjeet Sohi and the City of Edmonton twitter account.
- Improved team forecasting by introducing time series machine learning methods for model selection in R.
- Reduced data gathering times by using R to pull regularly used data through API requests.

EDUCATION

University of Alberta   **June 2022**
Masters of Arts, Economics (GPA: 3.9)   *Edmonton, AB*

- **Thesis:** Effect of LRT Expansion on Neighbouring Property Valuations: Evidence from Edmonton Alberta
    - Quantified the effect by distance to the station, project stage, and property value quantiles.
    - **Insight:** Nearest properties depreciated 5%, while further properties appreciated as much as 12%.

PERSONAL PROJECTS

What Determines Edmonton Housing Values?   **July 2022**
Python   *Project Link*

- Predicted housing valuations on a personally made dataset using a tuned XGBoost decision tree.
    - Model had an average inaccuracy of just 6%, or approximately $16,500.
    - **Insight:** Lot size, structure size, and distance to downtown were the most important variables.