CS-2704 Final Project Proposal

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1 Group Members

– Jamie Greening

2 Datasets

The two datasets I will be using are:

– National Collision data, from the National Collision Database [1]
– Monthly average retail prices for gasoline and fuel oil, by geography [2]

3 Github Repository

Here is the GitHub repository: https://github.com/vertesemash/CS2704-Final-Project-JG

4 Hypothesis

My hypothesis is that we will be able to see some form of association between lower gas prices and increased road collisions. When gas prices are lower, more people might be interested in driving when otherwise they might have stayed in. Trivial road trips might occur more frequently, meaning road collisions would be more likely. Granted, there are other variables that could be at play so the association may be weak or harder to see, but I'm hoping to see something like prolonged monthly price decreases associated with a rise in collisions in this same period.

References

1. Transport Canada: National Collision Database Online. Online. https://wwwapps2.tc.gc.ca/Saf-Sec-Sur/7/NCDB-BNDC/p.aspx?l=en, last accessed 2025-03-28
2. Statistics Canada: Monthly average retail prices for gasoline and fuel oil, by geography. Online. https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=1810000101, last accessed 2025-03-28