Topic/question:

* Part 1: Effectiveness of lockdowns on mobility
* Part 2: Effectiveness of mobility on case counts

Notes:

**baseline: the median value of the 5-week period from January 3 and February 6.**

Find the connection between mobility and case counts

Use data and lockdown events to make predictions of case counts, positivity rate

web scraper:

- event timeline by province

Determine what we want to specialize in based on the results from the key topics

Build an auto-update feature

# Project Timeline (Draft #1)

|  |  |  |
| --- | --- | --- |
| Date | Event | Description |
| Wed Oct 14 | Exploratory data analysis 1 | Is there a link between lockdown + mobility data and new cases? Create time series linear model, goal is to find a connection given all the data  - investigate different lag times, auto-correlation  - check the correlation between explanatory variables and response  - look into the testing process |
| Sunday, Oct 18 | Data coverage | Build web scraper  Get new case count data and lockdown event data for other provinces.  Canada  USA (?) |
| Sunday, Oct 25 | Exploratory data analysis 2 | Positivity data analysis  Positivity as a response  Positivity data vs mobility w/ moving average lag  Lockdown procedures by province, how does this change  Find more specific links based on what was found in the first exploratory data analysis |
| Sunday, November 1 | Model coverage v1 | Consider building a single, all-encompassing model or a model for each province (Jupyter notebook) |
| Sunday, November 8 | Model coverage v2 | Present results of v1 and decide what changes to improve. |
| Wednesday, November 11 | Final model | Cleaning up the notebook so that it is presentable |
| Wednesday, November 18 | Report for C3 |  |
| Sunday, November 22 | Reflection on C3 | What worked + what didn’t about our C3 report |
|  | Modifications to model |  |
| December 3 - 10, 2020 | Course final/final project | Focus on school u nerds |
| December 11, 2020 | Final report plan |  |
| (Optional) | Build web tool | Incorporate model into an interactive web tool with sliders yay |
| December 17, 2020 | Final report draft 1 (?) |  |
| December 24, 2020 | Final report done (?) |  |
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October

tie in lags with mobility data

mobility and case count seasonality

including sinusoidal component for periodicity

regional data

look into lockdown

Stephen:

Upload files of data that I manually scraped for Ontario and BC timelines to Google drive

Look into impact of lockdown procedures across provinces

Incorporate Nick's average onset to reported lag to how it can improve model predictability

Investigate hypothesis of including previous day positive counts into model

Investigate why there seems to be a positive correlation between case counts and lockdown procedures

Look into positivity rate

1. bring datasets together (centralize)

2.