Master of Data Science - University of British Columbia Okanagan

Minutes for May 1, 2020 - 10:30 AM - 12:00 PM PST

Present: Sofia Bahmutsky, Ngan Lyle, Kaitlyn Hobbs (Minutes), Shreeram Murali

Agenda

1. Discuss datasets from Statistics Canada.
2. Pay Sofia $5 for Zoom membership.

Meeting Notes

Data — Focus on **Ontario provincial health data on coronavirus cases**, **ODHF (Open Database for Health Facilities)** data, **ODB (Open Database of Buildings)** Ontario data, **proximity data:** transit, health care, pharmacies.

Aims — (1) Relationship between trend in cases reported at public health and proximity to public transit. (2) Relationship between trend in fatalities reported at public health and proximity to health care.

Procedure —

1. Complete ODHF data addresses and building types using webscraping or OpenStreetMap.
2. Merge ODB for Ontario with ODHF on some unique identifier (e.g. building name and zip code or addresses) - IFF complete and accurate.
3. Merge with Ontario case data on longitude and latitude.
4. Chloropleth visualization of cases (represented in colour scale), superimposed with proximity, and health care buildings with GIS.
5. **Next steps:** Integrate proximity data for exploratory purposes.

   Potential Limitations — (1) Proximity to public transit does not imply usage. (2) Missing buildings in ODB for Ontario ODHF may result in incomplete representation of health care facilities in ODHF. (3) Potential incompatibility between difference in high resolution of building location data with low resolution covid-19 case regions. (4) Potential cases of infection without assigned health regions.

Action Items

1. Explore databases.
2. Build slides for Tuesday presentations.
3. Set up meeting with Debangsha to review his Statistics Canada capstone methodology on automatic ODB locations.

Next Meeting: Monday, May 4, at 9:30 AM PST at UBCO Commons for Ngan, Kaitlyn, and Sofia