Measles: Anti-Vaxers Rights vs Society Security

UofT SCS Data Analytics

Project 3 – Group POXY\_SERVER

2019 February 24

# Project Proposal

## Team POXY\_SERVER

Bobby Bhattacharjee

Laurel Lobo

Gobind Singh

Jose Tomines

Callan Yan

## Project Scope

Analyze the available measle outbreak data in Canada / US / Globally, and if available, corresponding vaccination data. Dataset with at least 100 records.

Visualization to include a Python Flask powered RESTful API, HTML/CSS, JavaScript, and at least one database (MySQL, MongoDB, PostgreSQL)

Visualization to be interactive, with users clicking/hovering/various events to change the dataset. Your project must include some level of user-driven interaction (e.g. menus, dropdowns, textboxes, etc.)

Final visualization to include at least three views. Possible views will be outbreaks per location, outbreaks over time, vaccination rates per locations. Visualizations will be based on the availability of the data.

## Breakdown of Questions

1. Where in Canada / US / Globally are the measle outbreaks occurring?
2. How does outbreaks change over time?
3. Is there a correlation of vaccination rates with measle outbreak locations?

## Potential Data Sources

1. Centre of Disease Control (www.cdc.gov/measles/)
2. Government of Canada (www.canada.ca) – Health / Diseases and conditions / Surveillance of measles
3. Github (github/artiichoke/165\_Final\_Project) – Project about measles and vaccine rates by user artiichoke

## Breakdown of Tasks

1. Determine relevant data
2. Determine visualization of data
3. Determine framework of website
4. Build data collection and cleanup code
5. Build HTML
6. Incorporate Flask
7. Build a PostgreSQL DB
8. Build visualization code View 1
9. Build visualization code View 2
10. Build visualization code View 3

Tasks will be assigned once tasks 1 – 3 and determined.

# Approval and Authority to Proceed

We approve the project as described above, and authorize the team to proceed.

|  |  |  |
| --- | --- | --- |
| Name | Title | Date |
|  |  |  |
|  |  |  |
|  |  |  |