

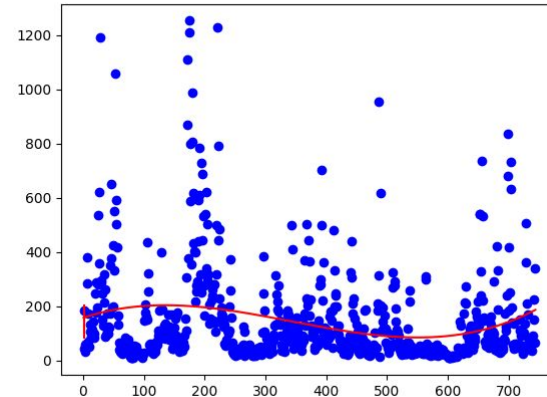
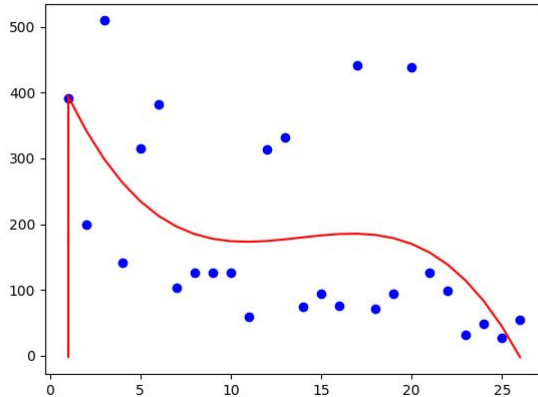


SPACE APPS 19 - TEAM CCSC

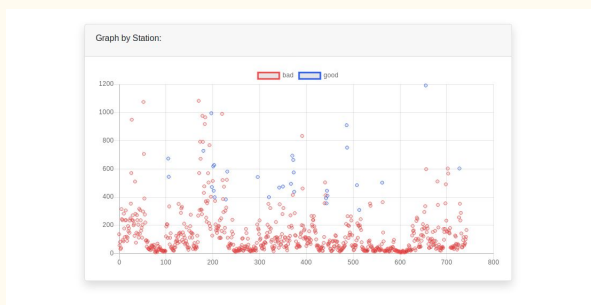
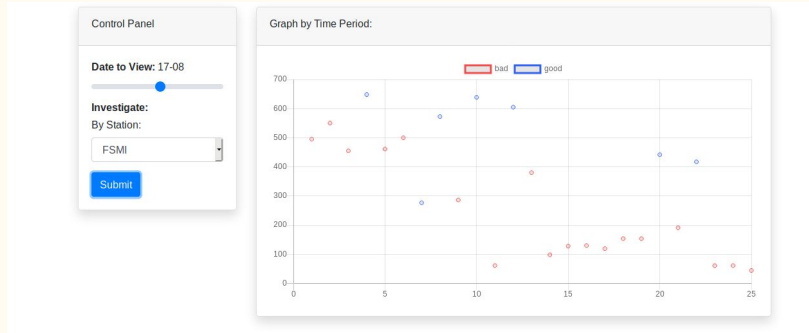
Challenge: GO Canada: Electromagnetic Data

Part 1:

- We compared the trends in the data of the rows (time) vs the columns (stations)
- The idea behind our algorithm was that if a data point was considered an outlier in the row and the column then it was likely an outlier.



Part 1:



Outliers:

x	y	name
4	648.04	FSIM
7	276.82	LGRR
8	572.73	MCMU

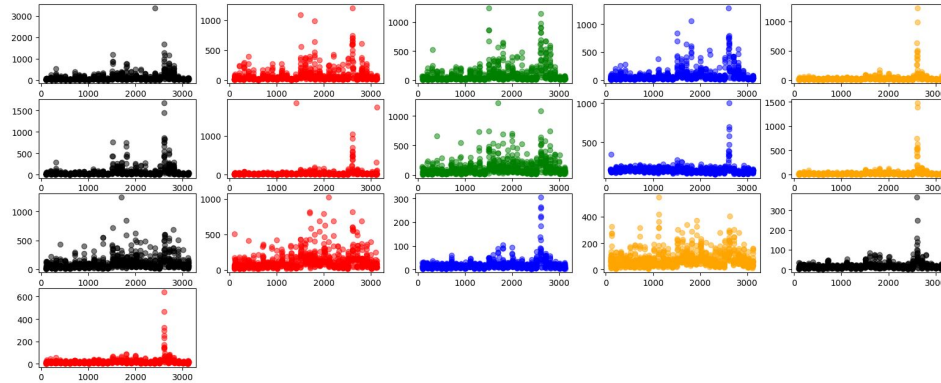
Interface that allows users to explore the results of the algorithm, plots the graphs with the outliers for time period and station

Shows a table of outliers for each time period

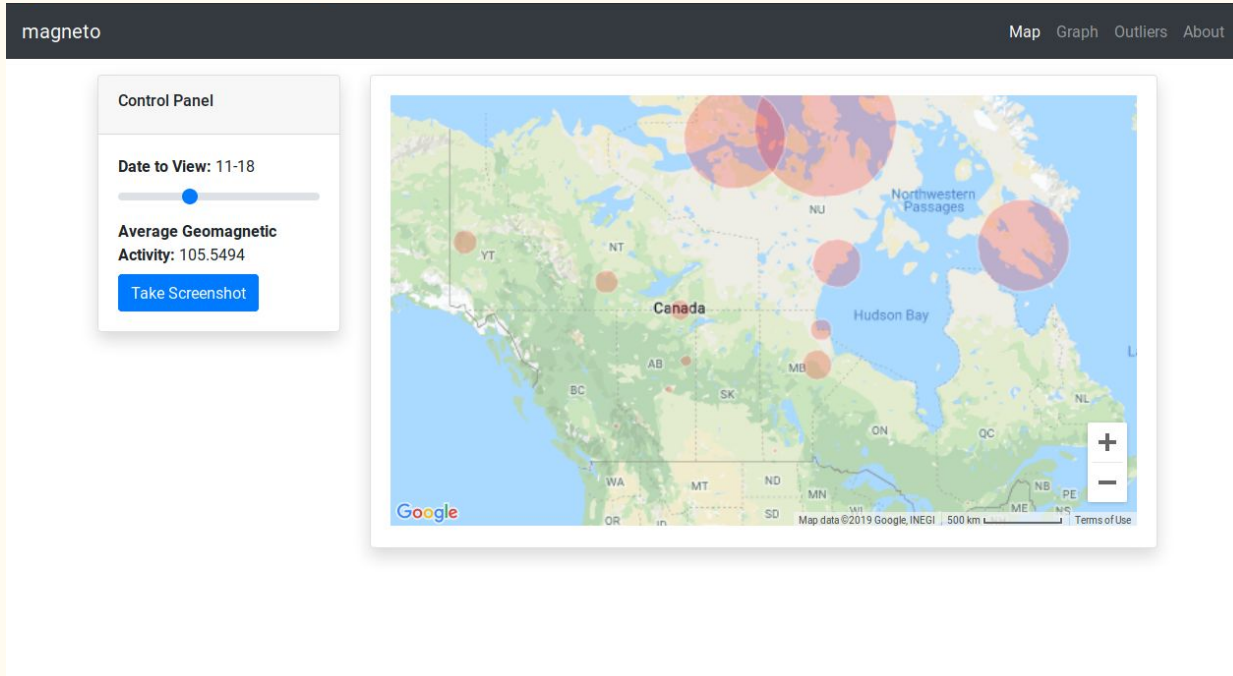
You can find the complete set of data on the about page.

Part 2: Predicting the missing data

Using the trends of the data at the time, and the trends of the data from the other time at the missing location, you can approximate the trend of the missing station

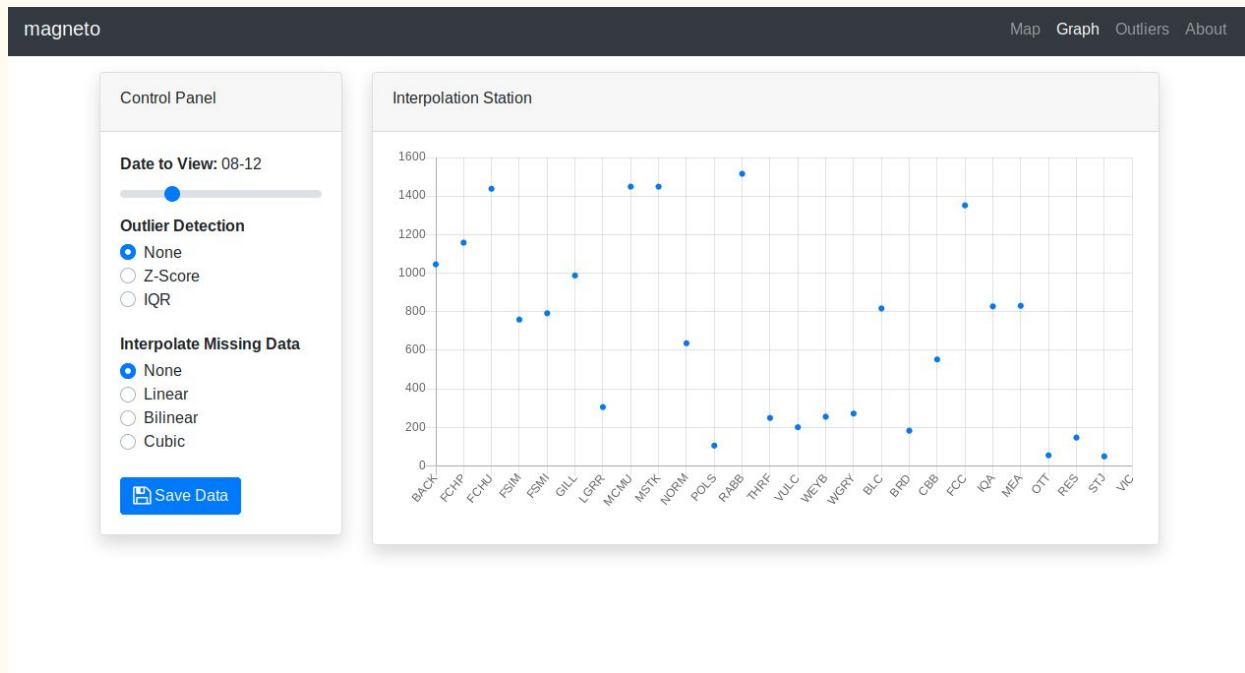


Part 2.2: Displaying the given data



Displaying the stations on a map, with the electromagnetic data scaled to its magnitude

Part 2.2: Displaying the given data



Displaying the data, on a grid, and applying different outlier detection algorithms, and different algorithms to interpolate missing data.

Uses dataset2_full

Our idea was to allow a user to pick their desired algorithm for more control over the results

Part 2.2 Displaying the given data

Map

Control Panel

Date to View: 18-14



Average Geomagnetic
Activity: 8.9612

Take Screenshot

