FIT5147 – Data Exploration and Visualization Semester 1, 2020

Data Exploration Project Initial Project Proposal

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Air Quality in India and its Causes

Questions:

- 1. How are the various air pollutants distributed throughout India?
- 2. How does location affect the air quality in India?
- 3. How various factors have affected the air quality in India since the year 1987 through 2015?

Data sources:

- a. Historical Daily Ambient Air Quality Data for India during1987-2015 contributed by the Ministry of Environment and Forests and Central Pollution Control Board of India under the National Data Sharing and Accessibility Policy (NDSAP).
- b. Total Number of Registered Motor Vehicles in India during 1951-2013 contributed by the Ministry of Road Transport and Highways under the National Data Sharing and Accessibility Policy (NDSAP).
- c. India's dates for the Diwali festival during 1987-2015.

The data source a will allow me to answer questions 2 and 3, while the combination of data sources a, b and c will allow me to answer question 1.

Description of data sources:

- a. Tabular data: 435742 rows and 13 columns
 It has spatial, numerical, temporal attributes and simple textual data.
 (https://data.gov.in/catalog/historical-daily-ambient-air-quality-data)
- Tabular data: 57 rows and 7 columns
 It has temporal and numerical data.
 (https://data.gov.in/resources/total-number-registered-motor-vehicles-india-during-1951-2013)
- c. Tabular data in PHP: A single columnar temporal data for 29 years. (http://www.world-timedate.com/holidays/kali_puja_deepavali_date_list.php)