

APPLIED DATA SCIENCE

Project: *“Battle of Neighborhoods”* – Coursera Capstone Project

Recommending Hospital Need in the near vicinity of
high prone Accident Area

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DATA

The two main sources of data used for this project are:

- 1) Real time Traffic Incident reports
- 2) Foursquare API data.

- 1) **Real time Traffic Incident reports:** This data source This data set contains traffic incident information from the Austin-Travis County traffic reports RSS feed.

This is available at <https://catalog.data.gov/dataset/traffic-reports>.

Check for the data set I have added in the repository of Github which is used for this project.

Additional Metadata:

Resource Type	Dataset
Metadata Created Date	September 26, 2017
Metadata Updated Date	August 9, 2018
Publisher	data.austintexas.gov
Unique Identifier	https://data.austintexas.gov/api/views/dx9v-zd7x
Maintainer	Austin Transportation
Maintainer Email	transportation.data@austintexas.gov
Public Access Level	public
Metadata Context	https://project-open-data.cio.gov/v1.1/schema/catalog.jsonld
Metadata Catalog ID	https://data.austintexas.gov/data.json
Schema Version	https://project-open-data.cio.gov/v1.1/schema
Catalog Describedby	https://project-open-data.cio.gov/v1.1/schema/catalog.json
Harvest Object Id	8a455ccf-3d39-4756-9886-fccfe2df128f
Harvest Source Id	3f699ee8-93f5-40fc-bdb7-133eddeb5a13
Harvest Source Title	City of Austin Data.json
Data First Published	2017-10-25
Homepage URL	https://data.austintexas.gov/d/dx9v-zd7x
Data Last Modified	2018-05-02
Source Datajson Identifier	True
Source Hash	c83577eca42861e53a1cf600068e498ca94d0361
Source Schema Version	1.1
Category	Transportation and Mobility

2) **Foursquare API data:** The Foursquare API allows application developers to interact with the Foursquare platform. The API itself is a RESTful set of addresses to which one can send requests and get responses. The APIs allows searching for places and users (feedback and ratings), exploring popular places and checking out reviews and images for the places. In this project we will be using Foursquare places API to identify the available hospitals nearby to a latitude and longitude. This is possible using “explore” call that returns a list of available hospitals.

Foursquare webpage is available at : <https://foursquare.com/>

Sample records from the Accident information Dataframe:

Issue Reported	Latitude	Longitude	Address
COLLISION WITH INJURY	30.120700	-97.635260	13911-14905 FM 812 RD
COLLISION WITH INJURY	30.120700	-97.635260	13911-14905 FM 812 RD
COLLISION WITH INJURY	30.120700	-97.635260	Elroy Rd & Fm 812 Rd
COLLISION WITH INJURY	30.120700	-97.635260	Fm 812 Rd & Elroy Rd
COLLISION WITH INJURY	30.120700	-97.635260	13912 FM 812 RD
COLLISION WITH INJURY	30.115334	-97.695139	S US 183 HWY & S FM 973 RD
COLLISION WITH INJURY	30.115334	-97.695139	S Fm 973 Rd & S Us 183 Hwy
COLLISION WITH INJURY	30.115334	-97.695139	S Us 183 Hwy & S Fm 973 Rd
COLLISION WITH INJURY	30.115334	-97.695139	S US 183 HWY & S FM 973 RD
COLLISION WITH INJURY	30.115334	-97.695139	S Us 183 Hwy & S Fm 973 Rd
COLLISION WITH INJURY	30.115334	-97.695139	S FM 973 RD & S US 183 HWY
COLLISION WITH INJURY	30.115334	-97.695139	9320-9513 S US 183 HWY
Crash Urgent	30.128259	-97.800543	12000 S Ih 35 Nb
Crash Urgent	30.128259	-97.800543	12000 S Ih 35 Nb
Crash Urgent	30.128259	-97.800543	12000 S Ih 35 Nb
Crash Urgent	30.128259	-97.800543	12000 S Ih 35 Nb
Crash Urgent	30.128259	-97.800543	12000 S Ih 35 Nb
Crash Urgent	30.128259	-97.800543	12000 S Ih 35 Nb
Crash Urgent	30.135477	-97.797997	11500 S Ih 35 Sb
Crash Urgent	30.135477	-97.797997	11500 S Ih 35 Sb