**Emergency - 911 Calls dataset Attribute Study**

Fire, Traffic, EMS for Montgomery County, PA

**Introduction:** 9-1-1 also written 911, is an emergency telephone number for the North American Numbering Plan (NANP), one of eight N11 codes. Like other emergency numbers around the world, this number is intended for use in emergency circumstances only, and using it for any other purpose (such as making false or prank calls) is a crime in certain jurisdictions.

In over 98% of locations in the United States and Canada, dialing "9-1-1" from any telephone will link the caller to an emergency dispatch office—called a public-safety answering point (PSAP) by the telecom industry—which can send emergency responders to the caller's location in an emergency. In approximately 96 percent of the U.S., the enhanced 9-1-1 system automatically pairs caller numbers with a physical address.

**Objective of the project:** The objective of this study is to learn about the attribute used in to the dataset. Finally we will learn about each attribute and what they represent in the dataset.

**Scope of the Study:** By this study, we will analyze the area of maximum emergency happened. In which area police need to attentive. In which area, medical emergency are frequently happening. We also study the time of vehicle accident and any others type of emergency situation.

**Attribute descriptions:** In the data set there are 266543 rows and 9 columns. Each row represent values and each columns represent variables. The description of the attributes are bellow.

|  |  |  |
| --- | --- | --- |
| **Serial** | **Attribute Name** | **Description** |
| **1** | **lat** | This is the latitude from Google maps, based on the address in the description. This measure the exact location of the emergency situation. There are total 266543 latitudes available in the dataset, no values are missing. |
| **2** | **lng** | This is the longitude from Google maps, based on the address in the description. This measure the exact location of the emergency situation. There are total 266543 longitudes available in the dataset, no value are missing. |
| **3** | **desc** | desc is the exact description as it was delivered through Montco Active Alert. This is the description of the emergency situation. |
| **4** | **zip** | Zip is the zip code of the area. It calculated from Google when possible. There are 234049 zip codes are available and another are missing. Missing values are empty in the dataset. We can replace the missing values by NaN means not a numbers. |
| **5** | **twp** | The twp is the township or boro. The town of the call. |
| **6** | **timestamp** | Timestamp is the time to happening the emergency situation. The format is YY-11-03 H:M:S. This dataset is in string format. We need to convert this dataset as time for using in python. |
| **7** | **add** | Add is just the address of the emergency situation. |
| **8** | **e** | This field is always 1…used for counting. |
| **9** | **title** | Title is the simple description. |