**Smart city**

smart-city-traffic-patterns

You are working with the government to transform your city into a smart city. The vision is to convert it into a digital and intelligent city to improve the efficiency of services for the citizens. One of the problems faced by the government is traffic. You are a data scientist working to manage the traffic of the city better and to provide input on infrastructure planning for the future.

The government wants to implement a robust traffic system for the city by being prepared for traffic peaks. They want to understand the traffic patterns of the four junctions of the city. Traffic patterns on holidays, as well as on various other occasions during the year, differ from normal working days. This is important to take into account for your forecasting.

**Problem Statement 1**

**Approach**

**Data set Link**

**TrainDataSet.csv**

SNO DateTime Junction Vehicles ID

1. 01-11-2015 00:00 1 15 20151101001

2. 01-11-2015 01:00 1 13 20151101011

3. 01-11-2015 02:00 1 10 20151101021

4. 01-11-2015 03:00 1 7 20151101031

to

48119. 30-06-2017 21:00 4 16 20170630214

48120. 30-06-2017 22:00 4 22 20170630224

48121. 30-06-2017 23:00 4 12 20170630234

**TestDataSet.csv**

sno DateTime Junction ID

1. 01-07-2017 00:00 1 20170701001

2. 01-07-2017 01:00 1 20170701011

3. 01-07-2017 02:00 1 20170701021

4. 01-07-2017 03:00 1 20170701031

to

11807. 31-10-2017 21:00 4 20171031214

11808. 31-10-2017 22:00 4 20171031224

11809. 31-10-2017 23:00 4 20171031234