



Road Usage and COVID-19 cases

Team 13 - SUBMIT
ANONYMOUSLY

1 Motivation

Our aim was to check was there a link between road usage/ traffic congestion in the rise in COVID-19 cases and use this to forecast future trends in cases.

We aim to use this model to:

- Better understand the way in which road congestion effects COVID-19 cases.
- Have the opportunity to show Data.gov.ie another way of thinking about how to measure the spread of COVID-19.
- Predict COVID-19 future trends.

2 Datasets

1. Covid-19 County Statistics HPSC Ireland (Dataset 10)

- Daily Cases, Dates

2. National Road Authority (NRA) website.

- Traffic counts on roads across Ireland from which we picked roads from the counties of Galway, Dublin, Donegal, Cork, Kildare and Westmeath.

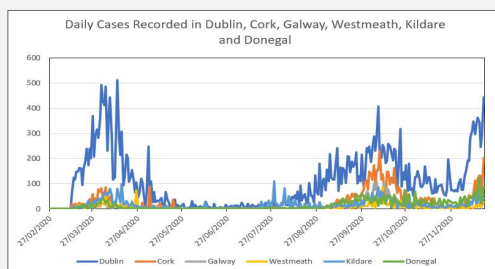
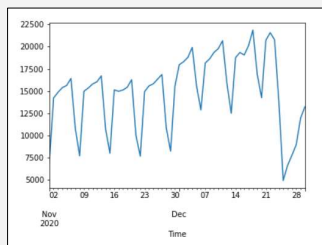
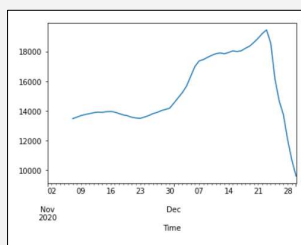


FIGURE 1. Daily recorded cases from the onset of the pandemic



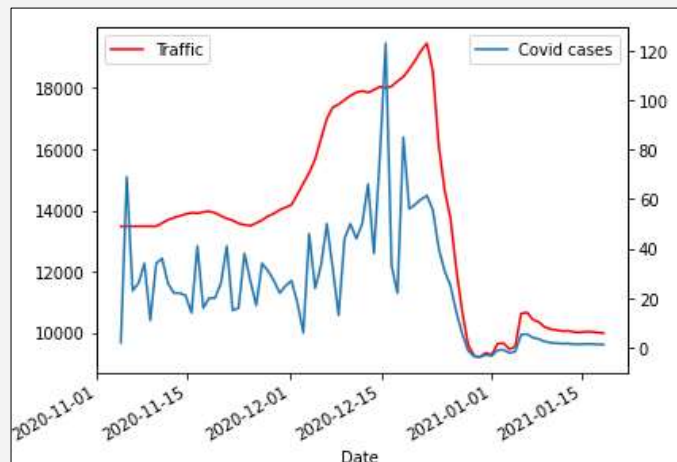
- Traffic Count before rolling average



- Traffic Count after Applying rolling average

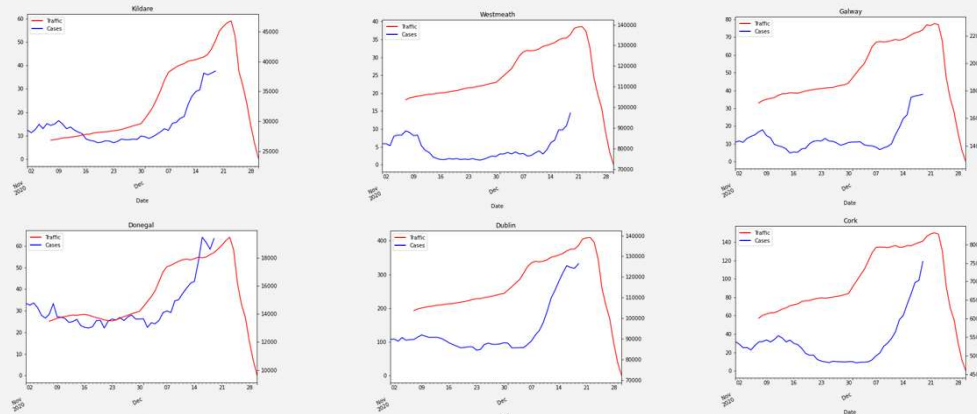
FIGURE 2 and 3: traffic Counts

4 Linear Regression Model



- Here is our findings from the attempted linear regression

3 Exploratory Analysis



Here we see the comparisons of road traffic vs cases in a county for Kildare, Westmeath, Galway, Donegal, Dublin and Cork respectively

FIGURE 4 to : traffic Counts

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