

COVID-19 DataFest

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2020-04-22

```
## Observations: 112
## Variables: 3
## $ Date      <chr> "1/1/20", "1/2/20", "1/3/20", "1/4/20", "1/5/20", "...
## $ Day       <chr> "Wednesday", "Thursday", "Friday", "Saturday", "Sun...
## $ `US Bound` <int> 330, 983, 861, 721, 512, 477, 488, 543, 608, 746, 6...

## Observations: 112
## Variables: 3
## $ Date      <chr> "1/1/2020", "1/2/2020", "1/3/2020", "1/4/2020", "1/...
## $ Day       <chr> "Wednesday", "Thursday", "Friday", "Saturday", "Sun...
## $ `US Bound` <dbl> 3530, 3696, 3572, 3146, 2939, 1791, 1807, 1754, 206...

## Observations: 112
## Variables: 3
## $ Date      <chr> "1/1/20", "1/2/20", "1/3/20", "1/4/20", "1/5/20", "...
## $ Day       <chr> "Wednesday", "Thursday", "Friday", "Saturday", "Sun...
## $ `US Bound` <dbl> 3517, 4652, 3995, 3877, 3586, 3101, 2957, 2880, 324...

## Observations: 112
## Variables: 7
## $ Date      <chr> "1/1/20", "1/2/20", "1/3/20", "1/4/20", "1/5/20", "...
## $ Day       <chr> "Wednesday", "Thursday", "Friday", "Saturday", "Sun...
## $ Auto      <dbl> 6220, 7626, 8185, 8103, 6901, 4486, 3919, 4095, 461...
## $ Bus       <int> 21, 11, 14, 13, 10, 16, 3, 8, 13, 8, 7, 8, 9, 6, 5,...
## $ Truck     <int> 182, 737, 1186, 454, 236, 1053, 1265, 1339, 1317, 1...
## $ `RV/Limo` <int> 4, 4, 5, 5, 1, 6, 8, 2, 1, 7, 3, 2, 1, 3, 4, 6, 5, ...
## $ `US Bound` <dbl> 7377, 9331, 8428, 7744, 7037, 5369, 5252, 5177, 591...
```

Research Question and Objective

How has COVID-19 impacted unemployment claims?

The Data

<https://oui.doleta.gov/unemploy/archive.asp>

Feb 1 Feb 8 Feb 15 Feb 22 Feb 29 March 7 March 14 March 21 March 28 April 4

Join by week

State population level

Exploratory Data Analysis

Modeling Approach

Final Model and Brief Discussion of Assumptions

Interpretations and Significance