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| Global food prices  impact analysis on population and GDP  Group Assignment – Data Science 2 – Introduction to Statistics | |
|  | Presented by - Group 2  Jobbin Samuel  Ricky Lam  Maxim Smetin  Ramila Mudarth  Avery Lizhong Wang  James Lising | |  |

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| CONCLUSION The lockdown activity during the onset of the pandemic gave us an opportunity to analyze the air quality versus mobility. Through the limited analysis we ran of the data sets in the 31 NY counties for a six month time period, there were many conclusions that were derived  Among the pollutants, Ozone had the greatest number of data points to have more confidence in our analysis. We observed that there was a minimal effect of mobility on the Ground Ozone concentration. Due to the unprecedented spike in Ozone after the pandemic left us with an opportunity to investigate what could have possibly caused the spike.    PM2.5 values were correlated with the reduction trend of human mobility data. As the mobility dropped, we did see a drop in the AQI levels for this type of pollutants. After the Lockdown, there was a steady increase. We also noticed that smaller and larger counties had higher drop in mobility as well as the mean of the AQI value for the pollutants.  The other pollutants did not have significant data points to provide any conclusive hypothesis. Though we did see a positive correlation with the very few data point we had available.  << NOTABLE HIGHLIGHTS  Due to the large size of the mobility data, our analysis was for a limited time period. We were also challenged with limited observations of AQI values for the six pollutants. We only had good confidence level with PM 2.5 and Ozone.  We had hoped to see significant drop in the AQI value for each of the pollutants but given the time period of the lockdown, the results were not obvious enough to confirm that we had significantly improved our air quality by restricting human mobility.  In conclusion, mobility is one of the contributing factors of to improve the air quality index. However, radical changes must be made to human mobility in order to create a significant swing in the AQI values for the six pollutants. |

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A picture containing graphical user interface

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