SEEM2460 – Introduction to Data Science
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Prof. Helen Meng
Project Proposal

Title:
Predicting Daily Confirmed Case in Hong Kong (and other countries)

Objective:
Construct models to predict Hong Kong's (and other countries') daily confirmed case next day and after using data from this day or older.

Introduction:
The Wuhan Coronavirus illness (SARS-Cov-2) becomes as a global threat. The aim of this study is first to find the best prediction models for daily confirmed cases and second to predict confirmed cases with these models in order to have more readiness in healthcare systems.

Through predicting the Daily Confirmed Case, we may find out some factors driving the daily case growth (and spotting difference between different countries).

Methods:
This study will be conducted based on daily confirmed cases of Wuhan Coronavirus illness which are collected from Johns Hopkins University from Jan 22nd 2020[1], daily city mobility which are collected from Citymapper from Jan 20th 2020[2] (and other related data collected from other sources). And predict using regression models including but not limited to Ordinary Least Square (OLS), Ridge and Least Absolute Shrinkage and Selection Operator (Lasso) , time series model including but not limited to Autoregressive Integrated Moving Average (ARIMA) and other possible methods.

Good. Please avoid starting a sentence with "And..."

Problem Statement (5 points) 4
Motivation (5 points) 4
Data Sources (5 points) 4
Data Processing Approach(es) (5 points) 4
Planned Analysis/Implementation / Experimentation (5 points) 4.5
Potential Conclusions (5 points) 3.5
Total 24/30
Remark: Very good. Your proposal has clearly laid out your research plan.

FROM TA
Problem Statement (5 points) 4
Motivation (5 points) 4
Data Sources (5 points) 4
Data Processing Approach(es) (5 points) 4
Planned Analysis/Implementation / Experimentation (5 points) 4
Potential Conclusions (5 points) 3
Total 23/30
Remark: Need to better state the conclusions

AVG: 24

[1] CSSEGISandData. (2020, April 24). CSSEGISandData/COVID-19. Retrieved from https://github.com/CSSEGISandData/COVID-19
[2] Citymapper. (n.d.). Citymapper Mobility Index. Retrieved from https://citymapper.com/cmi