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DATA 698

2/13/21

Project Proposal and Group Plan Of Attack

Research Topic:

The exact time that covid-19 hit the world is up for debate, but what is not up to debate is the devastation it has caused and is still causing. It has upended the economy and peoples lives not just in the United States where I live but all around the world. Because of this, it would be very important to be able to predict how many people would contract covid-19 or die from it. To predict the number of cases and or deaths, a time series forecasting model would be used. From these models, we can be better prepared to deal with covid-19 or possibly any other virus that may cause a pandemic by being able to plan further in to the future by knowing how fast or slow the virus is spreading. And then taking action from what the model will predict will happen.

Research Question:

Can we create an accurate forecasting model that predicts either the number of cases or deaths caused by covid-19 that our health officials and or government can rely on during a crisis such as the covid-19 pandemic? Would it be different by country? If we train a model based on the United States only, would that model also work for lets say the United Kingdom?

Proposed Group Plan:

Project Proposal: ALL

Mid Term Draft/Final Project: ALL but divided up into sections with each group member responsible for a section.

1. Introduction – 1 member
2. Data collection/Cleaning – 1-2 Members
3. Exploratory Analysis – 1-2 Members
4. Model Building/Picking Best Model- 1-2 Members
5. Conclusion – 1 member

Im assuming that the mid-term is just we dont have to include certain things but final project will require everything. Also do we know exactly the layout should be. Is the sample Profesor provided an actual student paper or just a sample journal paper that we still can use as a template. I am mainly going off that as far as why I put a Intro and Conclusion. Also in the syllabus, she wrote this should be the structure of the project paper

SUGGESTED STRUCTURE

The following is a suggested outline for your Senior Research Project. Please provide amended outline to your instructor for approval.

- Cover Page and Table of Contents
- Abstract/Executive Summary
- Literature Review/Research Conducted
- Theory and Hypotheses (if applicable)
- Data and Methods
- Results
- Discussion
- Conclusion

Also please see the class rubric, only 30% is for the final project and presentation. The Mid term is only 15%, the rest is 55% of the grade (Proposal, Discussion, and Group Contribution).

ASSIGNMENTS AND GRADING SCALE

Assignments and grade weightings

- Proposal 10%
- Discussion Board Participation 15%
- Mid Term Checkpoint 15%
- Group Contribution 30%
- Final Project & Presentation 30%