GGE6505

Final Project – Work Plan

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**Outline**

Question: How has the COVID-19 Pandemic and the associated Government response impacted the U.S. economy?

Proposed Solution: Performing forecasting of economic trends from February/March 2022 to the present day using official U.S. Government statistics. Comparison between prediction and actual values will yield a potential answer to the question.

**Work Plan**

Literature Search: Focus is on economic modelling and forecasting with data.

Data Collection: Mostly from U.S. Government Fiscal Data databases. Likely to use additional sources as the project progresses. Access using API.

Data Storage: Singular database in PostgreSQL

Data Preparation: Clean data and remove what is unnecessary. Link data from separate tables. Standardize keys, date format, etc.

Data Exploration: Take stock of data type and volume, general trends, holes in data, etc.

Data Visualization: Visualize the appearance of the data. Likely using a combination of standard visualization libraries (matplotlib, plotly, etc.) and Power BI.

Prediction: Training a machine learning program using time-series datasets with the data terminating February/March 2020. Performing forecasting from February/March 2022 until the present day.

Final Visualization: Dashboard of prediction results in comparison with real world data. Likely using Power BI.

**Project Roles**

Mary Oyuky Chian Leal:

Andrea Reid:

Nadav Avni: