**Executive Summary**

*The COVID-19 pandemic has had a profound impact on the global economy, affecting various economic indexes such as GDP, unemployment rates and overall quality of life. My capstone project aims to analyze these impacts comprehensively to uncover trends and potential patterns that emerged during the pandemic. By leveraging data analytics, this project seeks to provide insights into how different economies responded to the crisis and their subsequent recovery trajectories.*

***Objective:***

*The primary objective is to analyze economic data from multiple sources to understand the impact of COVID-19 on various economic indexes worldwide. The analysis will focus on the following key areas:*

* *Changes in GDP before, during, and after the pandemic.*
* *Trends in unemployment rates across different countries.*
* *Trajectory of indexes for Human development and Human Freedom worldwide.*

**Motivation**

*I am motivated to explore how the pandemic has influenced global economies. This analysis will not only enhance my analytical skills but also contribute to the broader understanding of economic resilience and recovery in the face of unprecedented crisis of the century.*

*This pandemic has reshaped the global economic landscape and many aspects of daily life.*

*As a data analyst with a keen interest in macroeconomic trends and policymaking, I’m always striving to gain a better understanding of various economic indicators and their trajectories.*

**Data Question**

*1. How did GDP growth rates change worldwide and in different countries before, during and after the pandemic?*

*2. What were the trends in unemployment rates before, during, and after the pandemic?*

*3. What changes occurred to HDI?*

*4. What trends are observed in HFI?*

**Minimum Viable Product (MVP)**

*An interactive dashboard using Tableau that allows users to explore the impact of COVID-19 on various economic indexes. The dashboard will include:*

* *Visualizations of GDP rates, unemployment rates, HDI and HFI*
* *Trend analysis over specified time periods and calculation of possible correlation.*

**Data Sources**

* *World Bank: https://data.worldbank.org/*
* *International Monetary Fund (IMF):* [*https://www.imf.org/en/Data*](https://www.imf.org/en/Data)*/*
* *Human Development Reports: https://hdr.undp.org/*
* *Cato Institute: https://www.cato.org/human-freedom-index/2023*

**Known Issues and Challenges**

* *Ensuring data completeness and consistency across different sources.*
* *Dealing with missing data and imputations.*
* *Scrubbing data reports.*