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FINI-D-21-00990
"Impact of COVID-19 on G20 countries: Analysis of Economic Recession Using Data mining approaches"
Original Submission

Azharsyah Ibrahim, Ph.D. (Reviewer 1)

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Comments to Author:

The introduction shouldn't too much detail on exploring the cause of the pandemic to economic recession as they have been much studied by other researchers. Despite that, you should provide a more detailed explanation of why this study is important.

The introduction should consist of background, research problem, objective, and significance of your study. It provides the reader with critical information about the topic being studied, such as highlighting and expanding upon foundational studies conducted in the past, describing critical historical events that inform why and in what ways the research problem exists, or defining key components of your research [concepts, people, places, things]. The background information should indicate the root of the problem being studied, appropriate context of the problem in relation to theory, research, and/or practice, its scope, and the extent to which previous studies have successfully investigated the problem, noting, in particular, where gaps exist that your study attempts to address.

Also, you should be very careful in mentioning data, especially in light of a country's name. For example, on page 25, line 31 or 32, Malaysia suddenly appears out of nowhere, in Tabel 6. In addition, you also should provide a more detailed interpretation/discussion of the result rather than just mention what you have displayed on tables. The discussion section interprets and describes the significance of your findings in light of what was already known about the research problem being investigated and explains any new understanding or insights about the problem after you've taken the findings into consideration. The discussion will always connect to the introduction through the research problems you posed and the literature you reviewed. However, it does not simply repeat or rearrange the introduction; the discussion should always explain how your study has moved the reader's understanding of the research problem forward from where you left them at the end of the introduction.

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Azharsyah Ibrahim <azharsyah@ar-raniry.ac.id>

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1 message

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FINI-D-21-00990
Impact of COVID-19 on G20 countries: Analysis of Economic Recession Using Data mining approaches
Financial Innovation

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FINI-D-21-00990
Research
Impact of COVID-19 on G20 countries: Analysis of Economic Recession Using Data mining approaches
Financial Innovation

Abstract: G20 countries are the world economic growth locomotives representing 64% of the global population and 4.7 billion inhabitants. GDP is mainly considered an economic activity index, is affected by several parameters and can view the economic development structure of countries. Data mining techniques of nonparametric classification tree and hierarchical clustering are employed to identify clusters of G20 countries that share similar development pathways during the COVID'19 recession period (2019–2020), considering several predictor factors. These variables are GDP/capita, Industrial production, Government spending, COVID-19 cases /population, Patient recovery of COVID-19 cases, Death cases of COVID-19, Hospital beds (per 1,000 people), and vaccinated per hundred people. This study aims to help understand the hidden pattern of G20 countries and unravel the complexity of parameters, primary development pathways and provide support toward policy decisions. The analysis of results and findings showed interesting findings of G20 countries grouping into three separate clusters sharing different measurements and patterns (harmonies and variances across G20 countries). The variables such as GDP per capita and patient recovery of COVID-19 cases with values of $12,012 and 82.8%, respectively, are the most significant factors for clustering the G20 countries with an R-square of 91.8%. Challenges for G20 are identified, and recommendations for handling pandemics in terms of economic systems are suggested.

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Azharsyah Ibrahim <azharsyah@ar-raniry.ac.id>

FINI-D-21-00990 - thank you - [EMID:5c7b2c62f940f94b]
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FINI-D-21-00990
Impact of COVID-19 on G20 countries: Analysis of Economic Recession Using Data mining approaches
Financial Innovation

Dear Dr. Ibrahim,

Thank you very much for your review of manuscript FINI-D-21-00990, 'Impact of COVID-19 on G20 countries: Analysis of Economic Recession Using Data mining approaches'.

We greatly appreciate your assistance.

Best wishes,

Xingtong Chen
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