

## Review Form 1.6

Journal Name:	Asian Journal of Probability and Statistics
Manuscript Number:	Ms_AJPAS_94438
Title of the Manuscript:	EVALUATION OF THE PERFORMANCE OF AUTOREGRESSIVE MOVING AVERAGE (ARIMA) AND ARTIFICIAL NEURAL NETWORKS (ANNS) MODELS USING DAILY CONFIRMED CASES OF COVID-19 IN NIGERIA
Type of the Article	Tertiary

### General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalajpas.com/index.php/AJPAS/editorial-policy> )

### PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments	<ol style="list-style-type: none"> <li>1. A well constructed abstract, but some important key words are missing.</li> <li>2. A very important study – state the beneficiaries of this research (researchers, the public, govt, etc?).</li> <li>3. Provide key variables of the analyses including intervening and moderating variables that would impact the study results hence analytical models.</li> <li>4. High volatility in any series may point to less clean sample data. How was the sample data cleaned prior to applying the ARIMA and ANN analyses?</li> <li>5. Good background literature, but speculation is that the percentage of fatalities from COVID-19 against total population differed from country to country, including Nigeria, for lack of complete and accurate data capture. What could have been the unknown variables of interest that were unique in each country/block of countries?</li> <li>6. COVID-19 control measures were a prescription of the WHO, but some countries introduced additional control measures and others, especially in Africa (e.g. Tanzania) did nothing. Does this study argue that, empirically, the situation could have been different in such instances and would the ARIMA or ANN models have picked up this anomaly in order to generalize the outcomes? A brief discussion would boost the findings of this study.</li> <li>7. Provide some recommendation(s) for future work as a result of this study, knowing that diseases/pandemics mutate. Logically, a research study ends with “results, discussion and recommendation(s)”.</li> </ol>	
<b>Minor</b> REVISION comments	Complete your sentences and mind the grammar. The grammarly kit could help	
<b>Optional/General</b> comments	None	

### PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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**Reviewer Details:**

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