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| Journal Name: | [**Current Journal of Applied Science and Technology**](https://journalcjast.com/index.php/CJAST) |
| Manuscript Number: | **Ms\_CJAST\_134464** |
| Title of the Manuscript: | **Application of Data Analytics in Food Quality Control: Enhancing Decision-Making for Contamination Prevention** |
| Type of the Article | **Review Article** |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This paper offers a current and pertinent analysis of the applications of data analytics, particularly blockchain, machine learning, and predictive modelling, to food safety and quality management. It combines case studies, epidemic statistics, and technology usage from 2019 to 2025. Its multidisciplinary reach and emphasis on practical applications make it significant, providing food scientists, regulators, and technologists with information on how to enhance food safety results using data-driven instruments. Researchers and practitioners who want to incorporate contemporary analytics into conventional food quality assurance systems may find it to be a useful resource.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes, the title is suitable and clearly reflects the content of the paper.** |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **The abstract is generally comprehensive and captures the scope, methodology, results, and conclusions of the study well. However, it would benefit from the following improvements:**   * **Correct minor typos (e.g., "applicaton" should be "application").** * **Mention that real-world case studies were analyzed.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript is scientifically sound and well-structured. It draws from a robust range of sources and integrates case-based analysis with analytical methodologies like PCA, Monte Carlo Simulation, and machine learning. The methodologies and conclusions are logically derived and supported with citations.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **Yes, the references are both sufficient and up-to-date. Most references fall within the 2019–2024 time frame, aligning well with the review's stated scope. However, the authors might consider adding more region-specific case studies or sources from Asia or Africa to enhance the global applicability.** |  |

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| **Is the language/English quality of the article suitable for scholarly communications?** | **The language is generally suitable but requires minor grammatical corrections and language polishing in some areas. Punctuation and sentence structure improvements would enhance readability.**  **Optional/General comments:**   * **Figures and tables are informative, but captions can be made more descriptive.** * **It would help to include a separate “Future Perspectives” or “Recommendations” section summarizing next steps for industry adoption.** * **Consider reformatting the reference section in line with journal guidelines.** |  |
| **Optional/General** comments | **The manuscript, while rich in content, requires several key corrections for improved clarity and scholarly quality.**   1. **The word “applicaton” in the abstract should be corrected to “application.”** 2. **The sentence defining food safety in the introduction is overly complex and should be rephrased as “Food safety refers to the measures taken to ensure that food does not pose a risk to health.”** 3. **Informal language such as “looks into” should be replaced with more academic phrasing like “examines” or “explores.”** 4. **Several sentences, especially in the methodology, are long and need to be broken down for better readability, e.g., listing inclusion criteria more clearly.** 5. **Phrases like “losing their lives to ailments” should be replaced with “resulting in deaths” for accuracy.** 6. **The manuscript inconsistently capitalizes terms like “Literature” and “Food Safety,” which should be standardized.** 7. **Sentences like “the odds changed towards a more proactive stance” should be rewritten in a clearer way, such as “data analytics enabled proactive contamination prevention.”** 8. **Overuse of technical terms without explanation, like PCA and Monte Carlo simulations, may confuse readers and need brief clarifications.** 9. **Captions for figures such as Fig. 1 and Fig. 2 are too generic and should be expanded to describe the content for standalone understanding.** 10. **Repetitive use of phrases like “data analytics” and “predictive analytics” in a single sentence should be**   **minimized for smoother language flow. These revisions will significantly enhance the manuscript’s quality and readability.** |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with the 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?** |  |  |

**Reviewer details:**

**Shraddha Vaishnav, AAFT University of Media and Arts, India**