Editorial

In this edition of our journal, we feature a pivotal research paper that examines the application of machine learning algorithms in cancer diagnosis. Given cancer's status as one of the leading causes of death worldwide, accurate and timely detection is crucial. This study offers a comprehensive analysis of nineteen machine learning algorithms, evaluating their detection accuracy and speed using a cervical cancer dataset. The research emphasizes a general approach that could be applied to various types of cancer, making it a significant contribution to the field of medical diagnostics.

The paper focuses on the performance of nineteen different machine learning algorithms in diagnosing cervical cancer. To ensure the approach is broadly applicable to various cancers, the study intentionally excludes feature selection, which is commonly used in studies focused on specific datasets or cancer types. This decision underscores the potential for developing versatile diagnostic systems capable of addressing multiple cancer types [1].

This edition's featured paper exemplifies the innovative and impactful research that is crucial in the fight against cancer. By evaluating a wide range of machine learning algorithms and employing advanced techniques like imputation and hyperparameter optimization, the study offers a comprehensive overview of the current capabilities and future potential of machine learning in cancer diagnostics. We are excited to share these findings with our readers and anticipate that they will inspire further advancements and research in this critical field.

References:

[1]   Y. Liu, W. Wang, H. Wang, "Imputation and Hyperparameter Optimization in Cancer Diagnosis," Journal of Engineering Research and Sciences, vol. 2, no. 8, pp. 1–18, 2023, doi:10.55708/js0208001.

Editor-in-chief

Prof. Paul Andrew