

Declarations and Statements

MUNNA: A Multi-strategy, Uncertainty-driven, Nested Neuro-ensemble Algorithm for Disease Diagnosis with Closed-loop Explainability Feedback

Funding

This research received no external funding, and was conducted without support from any grant, sponsor, or funding agency.

Conflicts of Interest / Competing Interests

The author declares that there are no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

Ethics Approval and Consent to Participate

Not applicable. This is a conceptual architecture and design-specification paper. No human participants, patient data, animal subjects, or clinical experiments of any kind were involved in this study, and no ethics committee approval was therefore required.

Consent for Publication

Not applicable, as this manuscript does not contain any individual person's data in any form (images, videos, identifiable case details, or similar).

Availability of Data and Materials

This is a conceptual architecture paper. No new patient data, empirical datasets, or experimental materials were generated or analyzed during this study. All factual claims and prior results discussed are drawn from previously published, publicly available literature, which is fully referenced throughout the manuscript.

Code Availability

Not applicable. No software implementation, model weights, or executable code were developed as part of this conceptual study. The proposed architecture is described at the specification level only, as detailed in the manuscript.

Authors' Contributions

M.S.M.: Conceptualization, Methodology, Formal analysis, Investigation, Writing – original draft, Writing – review & editing, Visualization, Supervision, Project administration. As the sole author, M.S.M. is responsible for the entirety of the conception, design, analysis, writing, and approval of this manuscript.

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Not applicable.

Declaration of Generative AI Use

During the preparation of this work, the author used AI-based tools to assist with drafting, literature organization, and figure preparation. After using these tools, the author reviewed and edited the content as needed and took full responsibility for the content of the published article.