

Review of: "Nested Neural Networks: A Novel Approach to Flexible and Deep Learning Architectures"

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Potential competing interests: No potential competing interests to declare.

Summary

This manuscript introduces a novel neural network architecture termed Nested Neural Networks (NNN), which builds upon a previous study. The manuscript also explores the mathematical foundations of NNN and utilizes PyTorch for its implementation. However, several areas need improvement to enhance the clarity and completeness of the manuscript.

Specific Feedback

Architecture Details:

- The architecture of NNN needs to be described in greater detail. A thorough explanation will help readers understand the innovative aspects of this model compared to existing ones.

References:

- The references used in the manuscript are insufficient and outdated. It is crucial to update the references with more recent and relevant studies to ensure the manuscript reflects the current state of research.

Comparison with Existing Studies:

- The manuscript should include a detailed comparison between the proposed NNN and existing models. Providing concrete examples and results from both the proposed and existing studies will strengthen the manuscript.

Results and Data Points:

- The results section should be updated with additional data points. This will provide a clearer picture of the performance and effectiveness of the NNN model.

Roadmap:

- The roadmap presented in the manuscript should be more precise. A detailed and well-defined roadmap will help readers understand the development and application of NNN more comprehensively.

Dataset Description:

- In Section 5.1, the dataset used must be explicitly stated and referenced. This is essential for reproducibility and for readers to assess the validity of the results.

References Section:

- The references section includes outdated sources. The authors need to revise this section by incorporating recent and relevant literature to provide a comprehensive background for their work.