Review of: "Deep Learning Modeling for Prediction of Cognitive Task Related Features from Resting-state fMRI Data"

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Potential competing interests: No potential competing interests to declare.

Overall Summary:

The introduction provides an overview of the topic, discussing the use of resting-state functional connectivity (rs-FC) in neuroimaging research, particularly using functional magnetic resonance imaging (fMRI) to study the brain connectome. However, there are some areas that could be improved:

1. The introduction should clearly state the research question, research objectives, and provide a brief overview of the research design.
2. A concise definition of rs-FC and its relevance in neuroimaging research should be provided, emphasizing its measurement of synchronized activity between different brain regions during a resting state.
3. The introduction should clearly identify the gap in the current research field that the study aims to address.

Additionally, in the Method section, it would be beneficial to include a flowchart or a summary of the steps to present the research process more clearly. Furthermore, referencing the literature for the Kohs block-design test in the Methods section would be necessary.

In the Discussion section, it is recommended to provide more specific explanations and references regarding the studies by Rozencwajg (1991) and Hafkemeijer et al. (2012) to support the authors' statements.