

Review of: "Academic Performance Prediction Based on Convolutional Neural Networks and IRT Parameters as RGB Images"

Lokesh B. Bhajantri¹

¹ Basaveshwar Engineering College, Bagalkot, Bagalkot, India

Potential competing interests: No potential competing interests to declare.

The authors have presented a technical paper that is relevant to the present context. Please find the following comments on the paper:

What are the major issues addressed in the paper? Do you consider them important? Comment on the degree of novelty in the paper.

It is suggested to estimate the accuracy of academic performance prediction mathematically using the proposed approach.

Additionally, it is recommended to compare the proposed approach with other existing approaches in the results and discussion section.

Write a prediction algorithm for student academic performance to enhance its effectiveness.

It is suggested to evaluate the proposed work using the following parameters: the time taken to predict student performance (measured in milliseconds) and the accuracy (expressed as a percentage) concerning the number of questions provided to students.

Specify the types of questions (e.g., simple, complex, or objective) used for evaluating academic performance.

The results and discussion section should include the following: a comparative analysis and a state-of-the-art comparison of the proposed approach against machine learning methods using metrics such as accuracy, precision, training time, and prediction time, with numerical values provided for each metric.

Follow this link for reference - <https://ieeexplore.ieee.org/abstract/document/10722011>

Authors are informed to include the following papers in this work and cite them in the paper:

- Bhajantri, L. B., Kagalkar, R. M., & Ranjolekar, P. (2021). Convolutional Neural Network Model Based Human Wearable Smart Ring System: Agent Approach. *International Journal of Electronics and Telecommunications*, 67(4), 673–678. <https://doi.org/10.24425/ijet.2021.137861>

In the results and discussion section, it is informed to include the experimental setup and simulation parameters and add the details of the system and simulation parameters in a table.

Check that the references are in the correct format by specifying the volume, issue, page number, and year as per the journal template.