

# Review of: "Flood Prediction Using Artificial Neural Networks: A Case Study in Temerloh, Pahang"

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Potential competing interests: No potential competing interests to declare.

Flood prediction is one of the most important factors in human life. The accurate prediction mechanism helps in saving human lives and their financial property, and also helps in improving the country's economy. The authors chose the best research topic. My observations are:

1. Information regarding the machine learning model is not sufficient to prove that the proposed model is efficient and accurate.
2. The various pieces of information on ANN hyperparameters are required, such as learning rate, activation function, optimizers, and number of layers.
3. The dataset has few parameters that cannot produce accurate results; we need more features in the dataset to conclude that the proposed model is effective.
4. The results section is very weak, where data preprocessing, data processing, and model information are not available.
5. The article needs to be checked for some grammatical errors.
6. As it is a case study, it works well with limited information but may not work in real-time flood prediction.
7. I suggest the authors check recent works on flood prediction that are based on deep learning models, as machine learning models have some limitations that are not considered and resolved in the proposed model.
8. To improve the article, the following steps can be taken:
9. A. Data collection needs more informative and more features should be considered. B. Data preprocessing model: needs mathematical or statistical methods for data cleaning, de-duplication, and removal of unwanted data. C. Data modelling should have detailed information on how data passed through the pipeline. D. A proper dataset needs to be considered for evaluation where it has enough features or parameters.
10. Based on my observations, I suggest that the manuscript needs a lot of revisions, so I reject the article.