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Interactive comment on "Review of different methods and techniques used for flood vulnerability analysis" *by* Dilip Kumar and Rajib Kumar Bhattacharjya

Anonymous Referee #1

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Thank you for submitting your manuscript on Landslide spatial modeling using factors optimization and machine learning algorithms. Frankly there are swamped with studies using machine learning techniques for many different processes. They are always based on the same DEM derivatives (often with no conceptual links to the process. There are a lot of text should be improved such as introduction, validation and discussion. Therefore, I give some suggestion and question which I hope useful to the author: It was difficult to see the justification for the need of this research. The literature review is poor. The paper needs to clearly state what are the problems with the existing works (these types of approaches) and what problem(s) this particularly paper was going to address. Without this clearly problem statement readers would have difficulty to see

the merit of this paper. The author only lists some references, I did not find the problem with the exist method. The problem of the existing method is not clear. The author should show us deep analysis about the gap between existing method.

1. What is the defination of the flood vulnerability? 2. What is the difference between flood vulnerability and flood susceptibility?

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