

Dear editor, dear reviewers,

Thank you very much for your feedback. We greatly appreciate the time and effort you committed to reviewing this manuscript. We have endeavored to answer all your points and provided a detailed answer to each of them. We have provided our replies as responses to each reviewer in supplement pdfs.

We made several changes to the original text, as can be seen in the annotated manuscript. The major changes are as follows:

- We added a subsection to section 3 to discuss the running time of the ML model.
- We added a new training setup to analyze the impact of the number of training years on the performance of the ML model. Method and results sections were updated to incorporate this setup.
- We insisted in the introduction, methods, and conclusion on the reason why we chose a MLP and why we think it can be representative of the risk of using ML in general – even for more complex neural networks.
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Multiple *minor* updates were also made to the text following the remarks of the reviewers. For an explained list of each change, please refer to our responses to each reviewer.