**Reply to the comments of Reviewer 1**

Happy Chinese new year. Thank you very much for your constructive suggestions, which improve our paper a lot. We sincerely hope that you will be satisfied with our reply. We have provided a revised version of the paper with the changes marked in detail. We have made minor adjustments to the formatting or spelling of the words where the text is underlined. We have made significant changes or added content where there is a yellow background. We sincerely hope that you will be satisfied with our reply.

**Question1:** I cannot find source code to reproduce your results. Please provide a link to the repository.

**Response1:** We have compiled the code for the AMLI method and uploaded it to github along with the data, the link to the code is: <https://github.com/duduu12/Amli-method.git>.

**Question2:** Provide (and motivate) the baseline method(s) and provide comparison results.

**Response2:** Due to our oversight, the original version of Table 3 had some errors. We believe that our main purpose is to demonstrate the optimization effect of the AMLI method for various machine learning predictions. The results provided in Table III of the current paper have initially reflected the idea of the baseline method(s), we have used four machine learning methods, KNN, FNN, GBDT and RF, they are all machine learning models of varying complexity and provide comparative results of the prediction results before and after processing by the AMLI method.

In addition to the above issues, we have also taken into account the other changes you have given us and have revised the content of the paper in other areas:

1. According to the comments of the editor, we deleted the last paragraph of the introduction section.
2. We have improved the literature review, added a section with recent technical findings and background knowledge about small sample (Few-shot).
3. We have rechecked the spelling of the words in the whole text and corrected some of the misspellings
4. We have made changes to some formatting issues.

**Question3:** Section 4 should be expanded to include additional datasets from different domains.

**Response3:** We have supplemented the data set and performed a predictive analysis using AMLI with machine learning methods, as detailed in 4.2.2. In addition, the structure of Chapter 4 has been briefly adjusted due to the addition of an additional dataset.

Thank you again for your suggestions, we wish you a pleasant life.