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[ijiet] Manuscript ID: IJIET-6223 - Editor Decision - Major Revision

Ms. Nicole Wong/Assistant Editor <nicole.wong@ejournal.net>   Fri, Aug 19, 2022 at 1:40 PM
To: Anthony Anggrawan <anthony.anggrawan@universitasbumigora.ac.id>, Christofer Satria <chris@universitasbumigora.ac.id>, Hairani Hairani <hairani@universitasbumigora.ac.id>

Dear Anthony Anggrawan, Christofer Satria, Hairani Hairani,

Thank you for submitting your manuscript to International Journal of Information and Education Technology.

Manuscript ID: IJIET-6223
Title: Improving SVM Classification Performance on Unbalanced Student Graduation Time Data Using SMOTE

The editorial team had assessed your submission and feels that it has potential for publication, so we would like to invite you to revise the paper and resubmit it for further review.

You can find reviewers' comments at the end of this email.

Important notice: Please revise the manuscript according to the reviewers' comments and upload the revised file **within one month**. Any revisions should be clearly highlighted, for example using the "Track Changes" function in Microsoft Word, so that changes are easily visible to the editors and reviewers. Please provide a cover letter to explain point-by-point the details of the revisions in the manuscript and your responses to the reviewers' comments. (**download author response template**)

As the editor had suggested that your manuscript should undergo extensive English editing, please address this during revision. We suggest that you have your manuscript checked by a professional English editing service.

Once the revision is ready, please submit the revised version by clicking on the following link:
http://ojs.ejournal.net/index.php/ijiet/authorDashboard/submission/6223

Instruction for uploading the revised version can be found at https://docs.pkp.sfu.ca/learning-ojs/en/authoring.

Do not hesitate to contact us if you have any questions regarding the revision of your manuscript.

Ms. Nicole Wong/Assistant Editor
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Reviewer A

Hi Thank you for submission of the article. Please find the review comments:

Introduction - The introduction states the main topic and previews the structure of the paper. But the methodology used is not par with use case where the study has been applied. If we see the data for 6 semester is constantly lower/higher, human intelligence can also tell if graduation will be on time or not

Results – Accepted. But it would be better if we apply the same principal in some other data set where we are solving some complex problems.

Conclusion – The conclusion of the paper is proper as per objective. But as mentioned it would have been much better and interesting to see the results where the data set is much complex to suit the need of SMOTE

Contents - Abstract, methodology, results and discussion are good

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Reviewer B:

1.) Show the vectorization of each attribute especially those categorical data in the paper
2.) Present the ratio of the training and test sets in the paper.
3.) Present the hyperparameters of the SVM model in the paper.
4.) Maybe add more tests like what if you are to add more skewness to your data set. Will the accuracy increase?
5.) The increase in accuracy is not significant to conclude SMOTE in the classification. Add more methods to improve the accuracy like improving vectorization? add new attributes? or combine it with other algorithm.

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