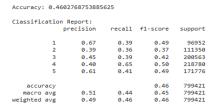
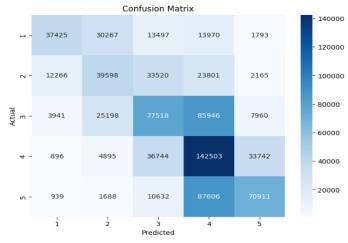
CROSS TEST REPORT

SUMMARY

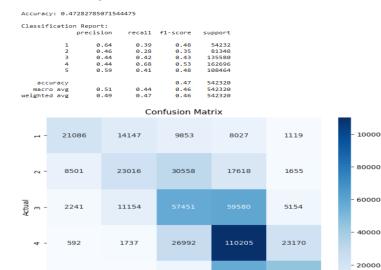
In this project, two models were trained and evaluated. Model A achieved an accuracy of 46% whereas Model B achieved 47% accuracy. Although both models showed relatively low performance, Model B performed better than Model A.

Model A tested using balanced dataset:





Model B tested using the imbalanced dataset:



OBSERVATIONS.

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When trained on om=ne dataset and tested on a different dataset, the performance of both models dropped sharply.

44666

5

100000

80000

40000

The drop indicates poor generalization across domains.

- Model B, even though it scored 52% before cross test, still struggled heavily on unfamiliar data.
- The model accuracy dropped because each dataset uses different vocabulary, style, and context, so the model learned patterns specific to the training domain.
- This shows the need for combined or merged datasets for better cross domain performance.

RECOMMENDATION: choosing the model

Based on initial evaluation, Model A should be deployed because it has better accuracy (44%) compared to Model B (44%) on its own test set. Even though both models struggle in cross testing. Between the two, Model B is recommended for deployment because it performed better overall with a higher accuracy (47%) and slightly better consistency in predictions.

Although the performance is still not ideal, Model A is the best choice among the options tested and can serve as a baseline model. It can be deployed with the intention of further improvement through hyperparameter tuning and balanced training data in future work.