# CONCLUSION

In this paper, we proposed a modified Transformer model that aims to identify SMS spam. We evaluated our spam Transformer model by comparing it with several other SMS spam detection approaches on the SMS Spam Collection v.1 dataset and UtkMl's Twitter dataset. The experimental results show that, compared to Logistic Regression, Naïve Bayes, Random Forests, Support Vector Machine, Long Short-Term Memory, and CNN-LSTM [22], our proposed spam Transformer model performs better on both datasets.

On the SMS Spam Collection v.1 dataset, our spam Transformer has a better performance in terms of accuracy, recall, and F1-Score compared to other classifiers. Specially , our modified spam Transformer approach accomplished an exceeding result on F1-Score.

Additionally, on the UtkMl's Twitter dataset, the results from our modified spam Transformer model demonstrate its improved performance on all four aspects in comparison to other alternative approaches mentioned in this paper. Concretely, our spam Transformer does exceptionally well on recall, which contributes to a distinct F1-Score.