impact of false news in rag

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ABSTRACT

# INTRODUCTION

# methodology

A dataset of 100 news with 50 fake and 50 real news was used, split into training and testing with 80-20.

We will train X models, X models are Deep Learning based, 3 models are based on the Transformer's [1] architecture: BERT[[1]](#footnote-1) [2], roBERTa[[2]](#footnote-2) [3] and MiniLM[[3]](#footnote-3)[4]

# results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Accuracy | Recall | Precision | F1 |
| DCNN(Deep Convolutional Neural Network) |  |  |  |  |
| Bidirectional LSTM |  |  |  |  |
| BERT |  |  |  |  |
| roBERTa |  |  |  |  |
| MiniLM |  |  |  |  |

# conclusions

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1. [google-bert/bert-base-uncased · Hugging Face](https://huggingface.co/google-bert/bert-base-uncased) [↑](#footnote-ref-1)
2. [cardiffnlp/twitter-roberta-base-sentiment · Hugging Face](https://huggingface.co/cardiffnlp/twitter-roberta-base-sentiment) [↑](#footnote-ref-2)
3. [microsoft/MiniLM-L12-H384-uncased · Hugging Face](https://huggingface.co/microsoft/MiniLM-L12-H384-uncased) [↑](#footnote-ref-3)