

# LLMs

## Models we tried to run

### Phi 1.5:

Too many Limitations, we didn't think it would perform well with the data

### Mistral 7B

We need more GPU RAM

We tried with 15G GPU RAM and 50G RAM

### Vicuna 13B

Needs Open AI API

### Facebook/Bart

Bad performance with the data we tested

## Models Implemented

### Summarization

flan-t5-base-tldr-news - bart-large-cnn - pegasus-large

We measured the accuracy using Rouge and all performed poorly but Bart was the best model

The summarization took way too much time

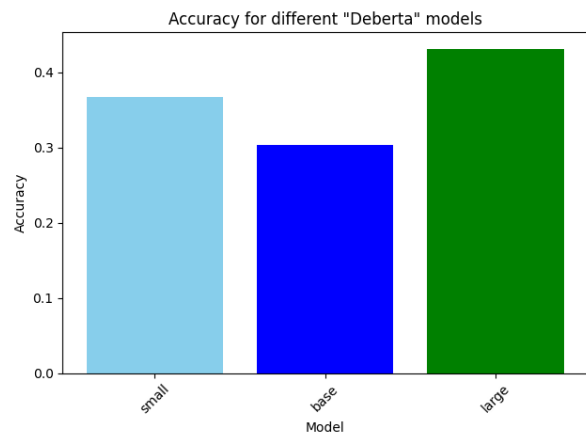
## Topic classification Classification

### Deberta

Deberta small 22M had an accuracy of 37%

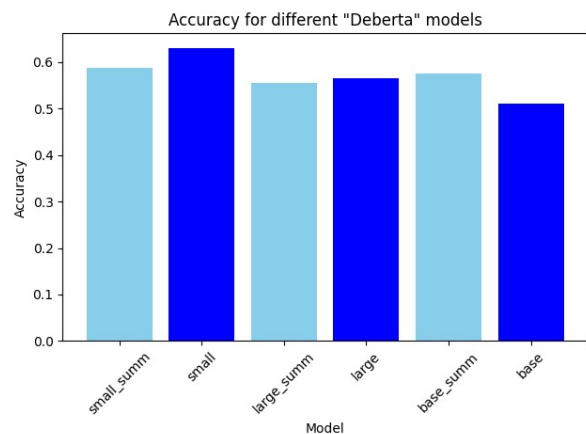
Deberta base 86M had an accuracy of 30%

Deberta large 304M had an accuracy of 43%

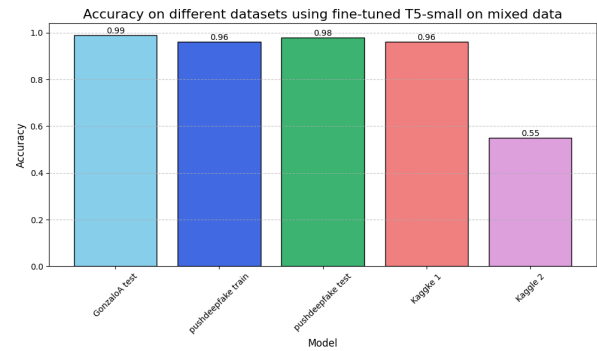
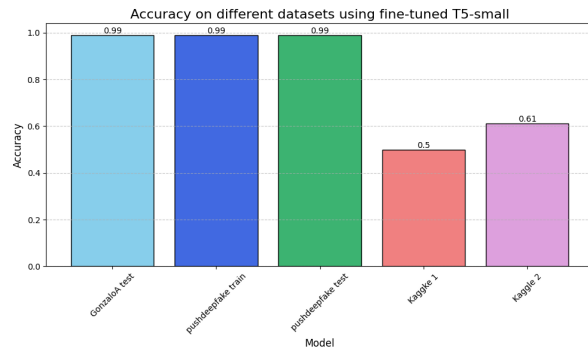


## Fake vs Real classification

Using Deberta Models with and without Bart summarization



## t5-small



**We also tested the last model on a new sample of data outside the datasets we have and had an accuracy of 99%**