

AI-Generated Text Detection -- VLG IIT Roorkee

understanding:(week-1)

Before getting into the project and working on it .I thoroughly went through quite a few research papers that are available on the internet which were very useful in the initial stages of process. Some of them are listed below

<https://arxiv.org/abs/2306.15666>

<https://edintegrity.biomedcentral.com/articles/10.1007/s40979-023-00140-5>

<https://arxiv.org/abs/2301.13852>

<https://github.com/armaan-rashid/detect-chatgpt>

<https://betterprogramming.pub/detecting-llm-generated-texts-befce4426da9>

Getting started:(week 2-3)

After the reading and brainstorming for few days, I learnt what and how different models work and understood what happens in the process of watermarking and black-box methods.

Data Pre-Processing and EDA:

As we observed in the notebook the data is highly imbalance and couldn't be used directly for the modelling, there are different data sets in Kaggle which are created for the purpose of the same competition using them, the data imbalance issue was resolved

Different models:(week-4)

I was facing problems understanding different Models, I referred to some YouTube videos and GitHub repos for better sources

Model building:

Using the Bert preprocess trained model which is available in Kaggle competition for tokenization etc

Now we again use a pre trained bert model for building the model from kaggle tensorflow collaboration and then using dense layer, we can use rmse or adam for optimising

Ps: I don't think the data present helps to train the model for better accuracy and still searching for data sets for more data to train the model

I am still working on how to fine tune the model and improve my notebook