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GENAI

Hugging Face

It is like github for ai that contains a lot of pretrained models that we can use instead of training models from scratch

Transformers

Transformers is a library that helps computers understand and generate human language.

It looks at all words together to understand meaning and context.

we can use it to build chatbots, translators, and text-writing Ai

Pipeline

A pipeline does multiple AI steps automatically.

We give it text, and it handles loading the model, processing input, and generating output.

In the Transformers library by Hugging Face, pipelines make using AI fast and easy.

Distilled GPT

It is a smaller version of a GPT model trained from a larger one with a few rows used in training

Though the model's output may not be really efficient , it works well with a small corpus and we could fine tune it based on our requirements as it is cheaper than training a model from scratch

NLP-A model cannot directly understand the natural language so we must do the following techniques for the model to convert a sentence in the way it can understand

1.Tokenisation-A sentence is broken down into tokens and each token is assigned an unique id

2.POS tagging-Each token must be tagged to see which part of speech it represents, there can be ambiguity as book can be a noun or a verb, this is resolved by tagging it with the pos with the highest probability

3.NER-It turns raw text into structured, usable information. Given a sentence, NER identifies spans of text and assigns them categories like:

- **PERSON – names of people**
- **ORG – organizations**
- **LOC / GPE – locations, countries, cities**
- **DATE / TIME – temporal expressions**
- **MONEY / PERCENT / QUANTITY – numerical entities**

Summarisation-

The model must understand the context for summarisation, so we would need both an encode and a decoder to understand the context and also generate the summary

In case of distilled models the accuracy would be slightly lower as the training corpus is small

For identifying the next word we would have to analyse both the previous and the next word in the window and also the POS must be analysed , now we might also get several words that is possible to fill the blank with and we go with the one that makes highest probability of appearance

Seed- random seed is a value used to initialize a random number generator. It ensures that random processes such as data shuffling, weight initialization, and sampling produce the same results every time a model is run. Using a seed makes responses a little different every time we generate them and this could give us a chance to verify its efficiency

Output when seed=1

In this article, we will examine how this technology can be used to predict people's future. We will then look at
In this article, we will use the world's largest distributed computing platform (D3) to create a predictive model
The first step in designing our predictive model is to apply this model to the data.
In order to make a prediction, we will use the D3's data.
A dataset is a collection of data. We will use a dataset model to predict people's future.
The idea behind the D3 is that it is a way to predict people's future.
However, the D3 is also very accurate.
The model is based on the first 20 years of human history and the analysis will show that the current population
The first 20 years of human history is the time period that the human population had the highest number of people
The model also tells us that the population of a country has increased.
This is because

Output for seed =42

In this article, we will discuss the main features of the new AI platform, and how it can be used to help us cre

1. How Can I Use It?

The concept of AI is not new. It has been used by many people to measure their mental health and health-related

It is based on the premise that AI is a way for humans to move towards a more efficient way of thinking, and the

In this article, we will explain what AI can do.

What does it do

In this article, we will explain how all of our cognitive and emotional systems interact with the AI platform. T

A new way of thinking about AI

A new paradigm for the development of intelligent AI

A new way of thinking about mental health and health-related behaviors