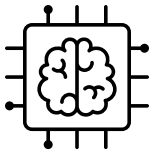


Sentiment Analysis and Emotion Detection

Introduction

analyzing sentiment and detecting emotions from text inputs using pretrained models and libraries.

1- Emotion Detection by transformers

Overview

The first code uses the transformers library to access a pretrained text classification pipeline for emotion detection. Specifically, it employs the j-hartmann/emotion-english-distilroberta-base model.

Functionality

Code Overview: The script defines a function detect_emotion(text) that processes input text through the pretrained model.

Emotion Extraction: For each input text, the function return a list of emotions with associated scores, sorting them in descending order based on score.

Example Usage

Input: A list of sample texts.

Output: For each text, the script outputs the detected emotions along with their respective scores.

2-Sentiment Analysis with textBlob

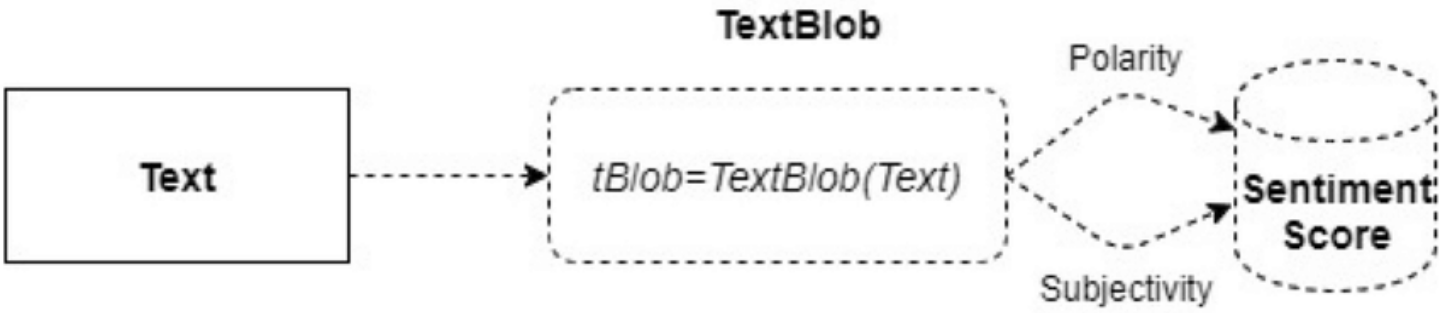
Overview

The second code uses the TextBlob library for sentiment analysis, determining whether a text expresses a positive, negative, or neutral sentiment based on polarity scores.

Functionality

Code Overview: The script defines a function get_sentiment(text) that utilizes TextBlob to analyze sentiment polarity.

Sentiment Categorization: Based on the polarity score, the function categorizes the sentiment as positive, negative, or neutral.



Example Usage

Input: A set of sample texts.

Output: For each text, the script prints the sentiment

Conclusion

Both scripts provide efficient means for text analysis tasks:

The first code focuses on detailed emotion detection using advanced NLP models from transformers. The second code provides a simpler sentiment analysis approach using TextBlob's polarity scoring.

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computer science