

Missão Pratica - Mundo 5 - Nível 4

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RPG0034 - Dando inteligência ao software

T 9001 – 5° Semestre Letivo

Github: https://github.com/AndreyHaires/MissaoPraticaMundo5_N4

Para esta missão foi solicitada a criação de uma ferramenta capaz de analisar as mensagens de rede social utilizando machine learning e processamento de linguagem natural para definir a percepção das pessoas em relação aos clubes de futebol da Inglaterra.

Foi iniciado instalando e atualizando as bibliotecas necessárias:

```
Análise de Sentimentos.

Passo 1: Instalando as bibliotecas e recarregando o ambiente

!pip install -U pip setuptools wheel
!pip install -U spacy
!python -m spacy download en_core_web_sm
!pip install spacytextblob
import pkg_resources,imp
imp.reload(pkg_resources)

**WARNING: Ignoring invalid distribution -hinc (/usr/local/lib/python3.10/dist-packages)
Requirement already satisfied: pip in /usr/local/lib/python3.10/dist-packages (24.3.1)
Requirement already satisfied: setuptools in /usr/local/lib/python3.10/dist-packages (75.3.0)
Requirement already satisfied: wheel in /usr/local/lib/python3.10/dist-packages (0.44.0)
WARNING: Ignoring invalid distribution -hinc (/usr/local/lib/python3.10/dist-packages)
```

Em seguida foi importado a biblioteca Spacy responsável por análise de sentimentos e a extensão SpacyTextBlob, ferramenta para processar textos em linguagem natural.

```
Passo 2: Importando as bibliotecas para análise de sentimento

import spacy
from spacytextblob.spacytextblob import SpacyTextBlob
```

Carregando o modelo pré-treinado do Spacy e definindo o modelo para atuar no idioma Inglês(en):

Após definimos a frase que será analisada: 'This is a wonderful campsite. I loved the serenity and the birds chirping in the morning.'

```
Passo 4: Definindo o texto inicial a ser analisado para verificação/validação da biblioteca

[9] user_input = 'This is a wonderful campsite. I loved the serenity and the birds chirping in the morning.'

doc = nlp(user_input)
```

Neste comando o código solicita a análise do sentimento e segue com o resultado: 'score': 0.85

```
Passo 5: Exibindo o resultado da primeira análise (um range entre -1 [avaliação negativa] e 1 [avaliação positiva]

input_polarity = doc._.polarity

sentiment = {
    'score': input_polarity
}

print(sentiment)

f'score': 0.85}
```

Nos passos seguintes são definidas todas as frases que precisam ser analisadas e o resultado na análise individual:

```
Passo 6: Defining a lists do tweets a serem analisades

[12] tweets-["Bayer Leverkoosen goalkeeper Bernd Leno will not be going to Napoli. His agent Ull Ferber to Bild: I can confirm that there were negotiations with Napoli, which we have broken off. Napoli is not an option. Atletico Medrid as "Gary Speed v Blackburn at St James In 2001/02 amyone? MRUFC URLE #100 Medrid parts."

"@ChaissofC Don't make him regret it and start him over Noofis",

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"@ChaissofC Don't make him regret it and start him over Noofis",

"@HossesShabatia @Control Him of Noofis over Noofis",

"@BassesShabatia @Control Him over Noofis over No
```

```
for item in tweets:

doc = nlp(item)

input_polarity = doc._polarity

sentiment = {

'tweet': item,

'score': input_polarity = doc._polarity

sentiment = {

'tweet': item,

'score': input_polarity

}

print(sentiment)

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('tweet': 'Riturepoolif' @deficiedition fet s a liar, make up. 'Yeu enfollowed him as loads of others have. Pure blagger. #If', 'score': 0.2323333333333333)

('tweet': 'Riturepoolif' @deficiedition fet s a liar, make up. 'Yeu enfollowed him as loads of excuses after tonight's game', 'score': 0.233333333333333)

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