

Desenvolvimento Full Stack

Nível 4: Dando inteligência ao software

2023.1

Mundo 5 Período 2025.1

Etapas da Execução

Passo 1: Instalação das bibliotecas

```
✓ 20s ▶ !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)
```

Passo 2: Importação das bibliotecas

```
✓ 9s ▶ import spacy

from spacytextblob.spacytextblob import SpacyTextBlob
```

+ Código + Texto

Passo 3: Carregamento do modelo e pipeline

```
✓ 0s [3] nlp = spacy.load('en_core_web_sm')

nlp.add_pipe('spacytextblob')

↔ <spacytextblob.spacytextblob.SpacyTextBlob at 0x7a0e67ebc7d0>
```

Passo 4: Texto de exemplo para validação

```
✓ 0s ▶ user_input = 'This is a wonderful campsite. I loved the serenity and the birds chirping in the m

doc = nlp(user_input)

from spacy.tokens import Doc
from textblob import TextBlob

def get_polarity(doc):
    return TextBlob(doc.text).sentiment.polarity

Doc.set_extension("polarity", getter=get_polarity)
```

Passo 5: Exibindo o resultado da primeira análise

```
✓ [17] input_polarity = doc._.polarity
0s
    sentiment = {
        'score': input_polarity
    }

    print(sentiment)

→ {'score': 0.85}
```

Passo 6 e 7: Adicionando e Analisando os tweets

{'tweet': 'Bayer Leverkusen goalkeeper Bernd Leno will not be going to Napoli. His agent Uli Ferber to Bild: I can confirm that there were negotiations with Napoli, which we have broken off. Napoli is not an option. Atletico Madrid and Arsenal are the other strong rumours. #B04 #AFC', 'score': -0.030555555555555575}

{'tweet': 'Gary Speed v Blackburn at St James in 2001/02 anyone? #NUFC #BEL #JAP#WorldCup', 'score': 0.0}

{'tweet': '"@ChelseaFC Don't make him regret it and start him over Hoofiz", 'score': 0.0}

{'tweet': '"@LiverpoolFF @AnfieldEdition He's a liar, made up. I've unfollowed him as loads of others have. Pure blagger. #LFC", 'score': 0.21428571428571427}

{'tweet': '"@theesk @Everton Didn't realise Kenwright is due to leave at the end of the month. In all seriousness could you see him being interested in us?", 'score': 0.0625}

{'tweet': '@hasanshabbaz19 @LFC My knowledge has decreased somewhat in the past few seasons', 'score': -0.28333333333333334}

{'tweet': 'Report: Linked with #Everton and #Wolves, Italians set to sign £4.5m-rated winger', 'score': 0.0}

{'tweet': 'Am seeing tweets that there's been a fall out @Everton between the money men... I'm presuming it's just a quiet news day or some kopite with nothing better to do! @ALANMYERSMEDIA', 'score': 0.3125}

{'tweet': '@LFC @officialAL20 @IntChampionsCup @ManUtd Expect loads of excuses after tonight's game', 'score': -0.4}

{'tweet': '@MartinDiamond17 @azryahmad @Baren_D @Mathewlewis1997 @iamheinthu @DiMarzio @Alissonbecker @LFC @SkySportsNews @SkySport @OfficialASRoma I'm just fine I have your fanbase angry over stating facts should ask them hun. Xo', 'score': -0.041666666666666666}

{'tweet': 'What a weekend of football results! @ManUtd @Glentoran @RangersFC & Hearts ?????', 'score': 0.0}

{'tweet': '@ChelseaFC For the first time in a long while, my heart was relaxed while watching Chelsea. Really enjoyed it today. Come on, CHELSEA!!!', 'score': 0.39218749999999997}

{'tweet': '@ChelseaFC @CesarAzpi What a fantastic signing worth every single penny ??', 'score': 0.20952380952380953}

{'tweet': 'Pogba scores, Pogba assists. But tomorrow papers won't be telling you this, instead they will tell you how he'll end up at Juve because he's unhappy, frustrated, have grudges with Mourinho and so on and so forth #mufc', 'score': -0.6499999999999999}

{'tweet': '@WestHamUtd we need to keep @CH14_ and get @HirvingLozano70 to compliment', 'score': 0.0}

{'tweet': '@kevdev9 @Everton Shouldn't be happening! Needs to stay away with his venomous attitude until he is sold!', 'score': 0.0}

```
{'tweet': '@brfootball @aguerosergiokun @ManCity What a genius. Pep taking winning mentality with him, conquering league after league. Baller', 'score': 0.5}
```

```
{'tweet': '@HMZ0709 Can we get a RT for our #lfc Mo Salah Liverpool Enamel Pin Badge', 'score': 0.0}
```

Critério de avaliação dos resultados

Se o resultado estiver próximo de -1 é considerada como avaliação negativa, porém caso esteja próximo de 1 é considerada como avaliação positiva.

Possíveis Erros e Soluções

```
def get_polarity(doc):
```

```
    return TextBlob(doc.text).sentiment.polarity
```

```
Doc.set_extension("polarity", getter=get_polarity)
```

Foi necessário realizar o registro manualmente, porque o **spacytextblob** não registrou o atributo.

Endereço do projeto no GITHUB

<https://github.com/BrenoSouza2023/Pr-tica-Nivel-4-Mundo-5.git>