

# UNIVERSIDADE ESTÁCIO CURSO DE DESENVOLVIMENTO FULL STACK

**RELATÓRIO MISSÃO PRATICA 4 - MUNDO 5** 

TURMA 23.1 MOISÉS EDUARDO GOMES DA COSTA CAMPUS:VIA CORPVS - FORTALEZA (CE)

## Missão Prática 4 - Mundo 5

### Objetivos da prática

- Configurar o ambiente Google Colab;
- Descrever tarefas diversas relacionadas ao Processamento de Linguagem Natural:
- Descrever o processo de identificação de entidades a partir de textos;
- Descrever o processo de extração de frases-chave a partir de textos;
- Descrever o processo de identificação de linguagem predominante a partir de textos

### Contextualização

Recentemente a empresa em que você trabalha, como Analista de Data Science, foi contratada por uma grande empresa interessada em abrir, no Brasil, centros de treinamento esportivos vinculados a grandes clubes de futebol da Inglaterra. Nesse contexto, a empresa contratante deseja saber a percepção das pessoas em relação aos clubes citados, i.e., de uma forma geral, qual o sentimento delas, expressos através de textos publicados em redes sociais, sobre os mesmos.

Link do Google Colab: contiment.ipynb

Link do Github: https://github.com/MoisesE2/Missao4Mundo5

#### Código realizado no Google Colab

```
Comece a programar ou gere código com IA.
"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)
           Requirement already satisfied: pip in /usr/local/lib/python3.11/dist-packages (80.4.0)
Requirement already satisfied: setuptools in /usr/local/lib/python3.11/dist-packages (80.4.0)
Requirement already satisfied: spacin /usr/local/lib/python3.11/dist-packages (80.4.0)
Requirement already satisfied: spacin /usr/local/lib/python3.11/dist-packages (80.4.0)
Requirement already satisfied: spacin /usr/local/lib/python3.11/dist-packages (from spacy) (3.0.12)
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Requirement already satisfied: wasalc1.2.0.9-2.0.6 in /usr/local/lib/python3.11/dist-packages (from spacy) (3.0.1)
Requirement already satisfied: wasalc2.0.9-2.0.8 in /usr/local/lib/python3.11/dist-packages (from spacy) (3.0.1)
Requirement already satisfied: wasalc2.0.9-2.0.8 in /usr/local/lib/python3.11/dist-packages (from spacy) (3.0.2)
Requirement already satisfied: may sat
 Requirement already satisfied: pip in /usr/local/lib/python3.11/dist-packages (25.1.1)

√ Download and installation successful
You can now load the package via spacy.load('en_core_web_sm')

                If you are in a Jupyter or Colab notebook, you may need to restart Python in order to load all the package's dependencies. You can do this by selecting the
               'Restart kernel' or 'Restart runtime' option.
Collecting spacytextblob
                      Downloading spacytextblob-5.0.0-pv3-none-anv.whl.metadata (4.8 kB)
                Requirement already satisfied: spacy>=3.0.0 in /usr/local/lib/python3.11/dist-packages (from spacytextblob) (3.8.5)
Requirement already satisfied: textblob>=0.18.0.post0 in /usr/local/lib/python3.11/dist-packages (from spacytextblob) (0.19.0)
Passo 2: Importando as bibliotecas para análise de sentimento
```

import spacy

from spacytextblob.spacytextblob import SpacyTextBlob

#### Passo 3: Definindo o modelo e a pipeline a serem utilizadas na análise

```
nlp = spacy.load('en core web sm')
 nlp.add pipe('spacytextblob')

 Passo 4: Definindo o texto inicial a ser analisado para verificação/validação da biblioteca
 user input = 'This is a wonderful campsite. I loved the serenity and the birds chirping in the morning.'
doc = nlp(user input)
 Passo 5: Exibindo o resultado da primeira análise (um range entre-1 [avaliação negativa] e 1 [avaliação positiva])
 input_polarity = doc._.blob.polarity
 sentiment = {
          'score': input_polarity
 print(sentiment)
 ₹ {'score': 0.85}
 Passo 6: Definindo a lista de tweets a serem analisadas
 tweets=["Bayer Leverkusen goalkeeper Bernd Leno will not be going to Napoli. His agent Uli Ferber to Bild: I can confirm that there were negotiations will "Gary Speed v Blackburn at St James in 2001/02 anyone? #NUFC #BEL #JAP#WorldCup",
  "@ChelseaFC Don't make him regret it and start him over Hoofiz",
 "@LiverpoolFF @AmfieldEdition Me's a liar, made up. I've unfollowed him as loads of others have. Pure blagger. #LFC",
"@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?",
"@hasanshahbaz19 @LFC My knowledge has decreased somewhat in the past few seasons",
  "Report: Linked with #Everton and #Wolves, Italians set to sign £4.5m-rated winger
  "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 b
  "@LFC @officialAL20 @IntChampionsCup @ManUtd Expect loads of excuses after tonight's game",
  "@MartinDiamond17 @azryahmad @Baren D @Mathewlewis1997 @iamheinthu @DiMarzio @Alissonbecker @LFC @SkySportsNews @SkySport @OfficialASRoma I'm just fine
   What a weekend of football results! @ManUtd @Glentoran @RangersFC & Hearts ????
 "@ChelseaFC For the first time in a long while, my heart was relaxed while watching Chelsea. Really enjoyed it today. Come on, CHELSEA!!!", "@ChelseaFC @CesarAzpi What a fantastic signing worth every single penny ??",
 "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, "@WestHamUtd we need to keep @CH14_ and get @HirvingLozano70 to compliment",
"@Kevdev9 @Everton Shouldn't be happening! Needs to stay away with his venomous attitude until he is sold!",
  "@brfootball @aguerosergiokun @ManCity What a genius. Pep taking winning mentality with him. conquering league after league. Baller".
  "@HMZ0709 Can we get a RT for our #1fc Mo Salah Liverpool Enamel Pin Badge"]
 Passo 7: Analisando os tweets
     doc = nlp(item)
     input_polarity = doc._.blob.polarity
     sentiment = {
   'tweet': item,
              'score': input_polarity
     print(sentiment)
{'tweet': 'Bayer Leverkusen goalkeeper Bernd Leno will not be going to Napoli. His agent Uli Ferber to Bild: I can confirm that there were negotia {'tweet': 'Gary Speed v Blackburn at St James in 2001/02 anyone? MNUFC MBEL #JAPHWorldCup', 'score': 0.0} {'tweet': 'GhelseaFC Don't make him regret it and start him over Hoofiz", 'score': 0.0} {'tweet': "GliverpoolFF @AnfieldEdition He's a liar, made up. I've unfollowed him as loads of others have. Pure blagger. #LFC", 'score': 0.2142857 {'tweet': "Gheash Severton Didn't realise Kenwright is due to leave at the end of the month. In all seriousness could you see him being intereste {'tweet': 'Gheash Shabbarly BLFC My knowledge has decreased somewhat in the past few seasons', 'score': -0.2833333333333333333} {'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 {'tweet': 'Gheff(scialLA2) @Intchampionscup @ManUtd Expect loads of excuses after tonight's game', 'score': -0.4} {'tweet': 'GMartinDiamond17 @azryahmad @Baren_D @Mathewlewis1997 @iamheinthu @DiMarzio @Alissonbecker @LFC @SkySportsNews @SkySport @OfficialASRom {'tweet': 'What a weekend of football results! @ManUtd @Glentoran @RangersFC & Hearts ????', 'score': 0.0} {'tweet': 'GChelseaFC @CesarAzpi What a fantastic signing worth every single penny ??', 'score': 0.20952380952380953} {'tweet': 'GChelseaFC @CesarAzpi What a fantastic signing worth every single penny ??', 'score': 0.20952380952380953} {'tweet': 'GMetsHanUtd we need to keep @CH4_ and get @Hirvinglozano20 to compliment,' 'score': 0.8} {'tweet': 'Gkevdev9 @Everton Shouldn't be happening! Needs to stay away with his venomous attitude until he is sold!, 'score': 0.0} {'tweet': 'GMetsHanUtd we need to keep @CH4_ and get @Hirvinglozano20 to compliment,' 'score': 0.0} {'tweet': 'GMetsHanUtd we need to keep @CH4_ and get @Hirvinglozano20 to compliment,' 'score': 0.0} {'tweet': 'GMetsHanUtd we need to keep @CH4_ and get @Hirvinglozano20 to compliment,' 'score': 0.0}
```