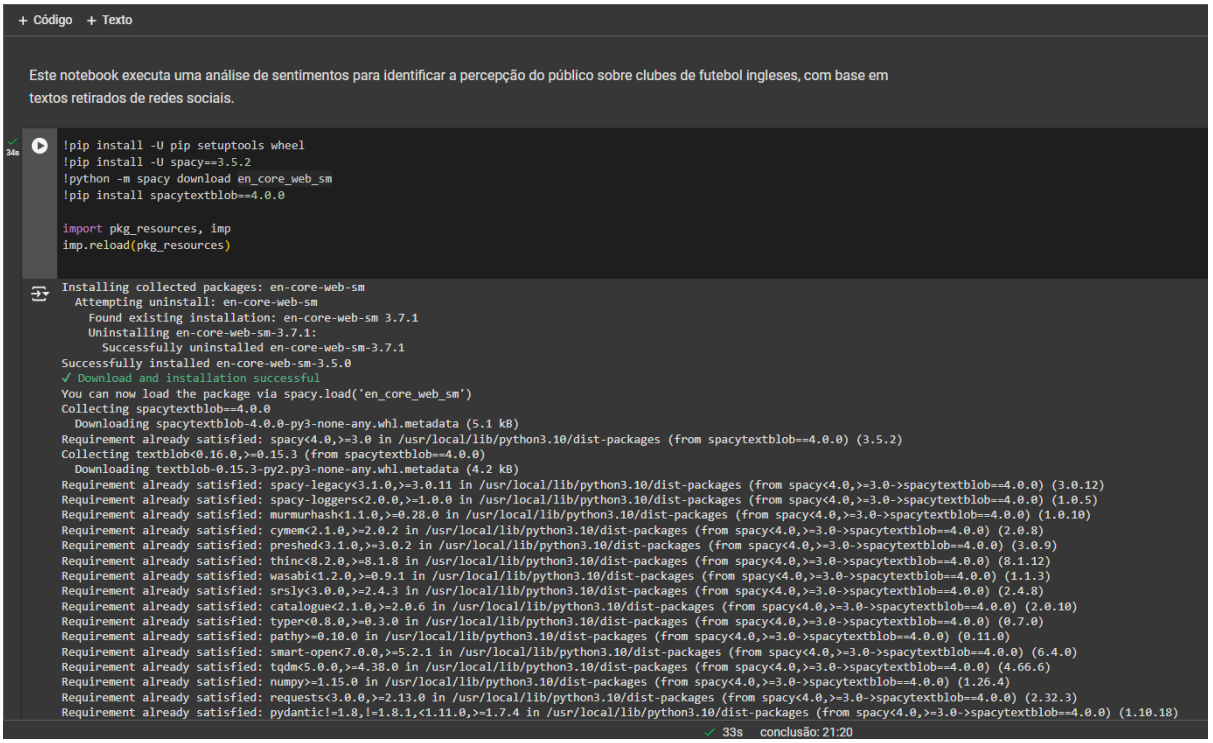
Missão Prática - Nível 4 Mundo 5 | Caique Thomaz Stopiglia - 202208292471

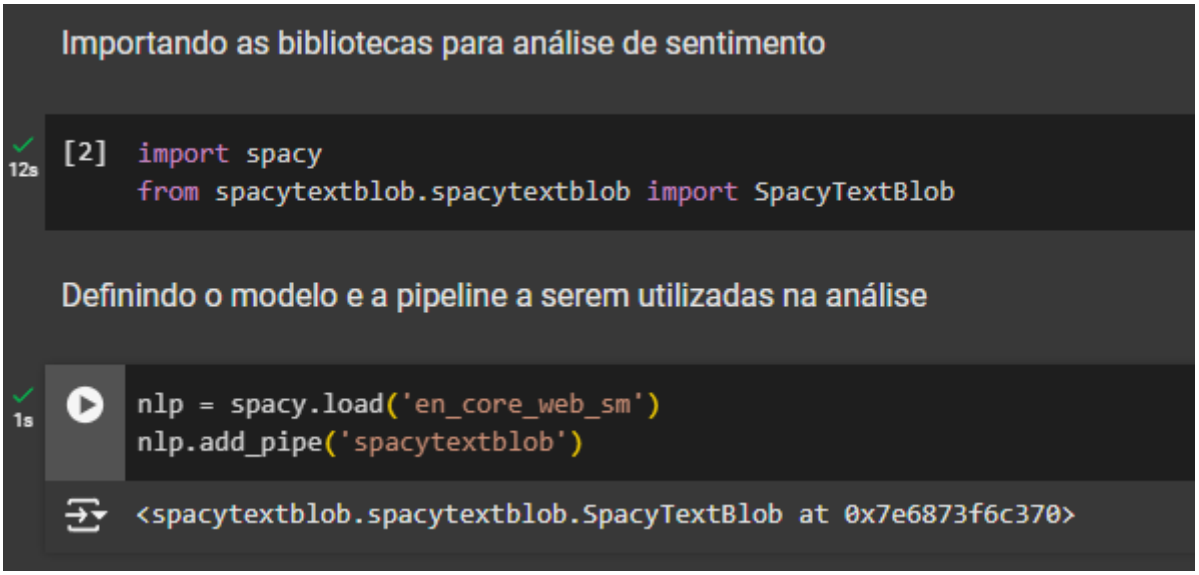
Dando Inteligência ao Software

Instalando as bibliotecas e recarregando o ambiente:



```
+ Código  + Texto

Este notebook executa uma análise de sentimentos para identificar a percepção do público sobre clubes de futebol ingleses, com base em
textos retirados de redes sociais.

34s
!pip install -U pip setuptools wheel
!pip install -U spacy==3.5.2
!python -m spacy download en_core_web_sm
!pip install spacytextblob==4.0.0

import pkg_resources, imp
imp.reload(pkg_resources)

Installing collected packages: en-core-web-sm
  Attempting uninstall: en-core-web-sm
    Found existing installation: en-core-web-sm 3.7.1
    Uninstalling en-core-web-sm-3.7.1:
      Successfully uninstalled en-core-web-sm-3.7.1
Successfully installed en-core-web-sm-3.5.0
✓ Download and installation successful
You can now load the package via spacy.load('en_core_web_sm')
Collecting spacytextblob==4.0.0
  Downloading spacytextblob-4.0.0-py3-none-any.whl.metadata (5.1 kB)
Requirement already satisfied: spacy<4.0,>=3.0 in /usr/local/lib/python3.10/dist-packages (from spacytextblob==4.0.0) (3.5.2)
Collecting textblob<0.16.0,>=0.15.3 (from spacytextblob==4.0.0)
  Downloading textblob-0.15.3-py2.py3-none-any.whl.metadata (4.2 kB)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.11 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (3.0.12)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (1.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (1.0.10)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (2.0.8)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (3.0.9)
Requirement already satisfied: thinc<8.2.0,>=8.1.8 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (8.1.12)
Requirement already satisfied: wasabi<1.2.0,>=0.9.1 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (1.1.3)
Requirement already satisfied: srsly<3.0.0,>=2.4.3 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (2.4.8)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (2.0.10)
Requirement already satisfied: typer<0.8.0,>=0.3.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (0.7.0)
Requirement already satisfied: pathy>=0.10.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (0.11.0)
Requirement already satisfied: smart-open<7.0.0,>=5.2.1 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (6.4.0)
Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (4.66.6)
Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (1.26.4)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (2.32.3)
Requirement already satisfied: pydantic!=1.8,!=1.8.1,<1.11.0,>=1.7.4 in /usr/local/lib/python3.10/dist-packages (from spacy<4.0,>=3.0->spacytextblob==4.0.0) (1.10.18)
✓ 33s  conclusão: 21:20
```

Importando bibliotecas para análise de sentimento e definindo o modelo e a pipeline a serem utilizadas na análise:



```
Importando as bibliotecas para análise de sentimento

12s
[2] import spacy
    from spacytextblob.spacytextblob import SpacyTextBlob

Definindo o modelo e a pipeline a serem utilizadas na análise

1s
nlp = spacy.load('en_core_web_sm')
nlp.add_pipe('spacytextblob')

<spacytextblob.spacytextblob.SpacyTextBlob at 0x7e6873f6c370>
```

Definindo o texto inicial a ser analisado para verificação/validação da biblioteca e exibindo o resultado da primeira análise:

Definindo o texto inicial a ser analisado para verificação/validação da biblioteca

```
[4] user_input = "This is a wonderful campsite. I loved the serenity and the birds chirping in the morning."
    doc = nlp(user_input)
```

Exibindo o resultado da primeira análise (um range entre -1 [avaliação negativa] e 1 [avaliação positiva])texto do link

```
[5] input_polarity = doc._.polarity
    sentiment = {
        'score': input_polarity
    }

    print(sentiment)
```

```
{'score': 0.85}
```

Analisando Tweets: