

```
In [4]: ! pip install -U spacy
```

```
Requirement already satisfied: spacy in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (3.2.3)
Requirement already satisfied: thinc<8.1.0,>=8.0.12 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (8.0.13)
Requirement already satisfied: wasabi<1.1.0,>=0.8.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (0.9.0)
Requirement already satisfied: numpy>=1.15.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (1.22.2)
Requirement already satisfied: srsly<3.0.0,>=2.4.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (2.4.2)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (2.0.6)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (2.0.6)
Requirement already satisfied: pydantic!=1.8,!1.8.1,<1.9.0,>=1.7.4 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (1.8.2)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.8 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (3.0.9)
Requirement already satisfied: pathy>=0.3.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (0.6.1)
Requirement already satisfied: setuptools in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (58.1.0)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (1.0.1)
Requirement already satisfied: packaging>=20.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (21.3)
Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (3.3.0)
Requirement already satisfied: typer<0.5.0,>=0.3.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (0.4.0)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (3.0.6)
```

```
WARNING: You are using pip version 21.2.4; however, version 22.0.3 is available.
You should consider upgrading via the 'C:\Users\Administrator\AppData\Local\Programs\Python\Python39\python.exe -m pip install --upgrade pip' command.
```

Requirement already satisfied: Jinja2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (3.0.3)

Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (1.0.6)

Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (2.27.1)

Requirement already satisfied: blis<0.8.0,>=0.4.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (0.7.6)

Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy) (4.63.0)

Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from packaging>=20.0->spacy) (3.0.7)

Requirement already satisfied: smart-open<6.0.0,>=5.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pathy>=0.3.5->spacy) (5.2.1)

Requirement already satisfied: typing-extensions>=3.7.4.3 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pydantic!=1.8,!<1.8.1,<1.9.0,>=1.7.4->spacy) (4.1.1)

Requirement already satisfied: idna<4,>=2.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy) (3.3)

Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy) (1.26.8)

Requirement already satisfied: charset-normalizer~2.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy) (2.0.12)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy) (2021.10.8)

Requirement already satisfied: colorama in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tqdm<5.0.0,>=4.38.0->spacy) (0.4.4)

Requirement already satisfied: click<9.0.0,>=7.1.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from typer<0.5.0,>=0.3.0->spacy) (8.0.4)

Requirement already satisfied: MarkupSafe>=2.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from Jinja2->spacy) (2.1.0)

In [5]: ! pip install spacytextblob

Collecting spacytextblob

Downloading spacytextblob-4.0.0-py3-none-any.whl (4.5 kB)

Requirement already satisfied: spacy<4.0,>=3.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacytextblob) (3.2.3)

Collecting textblob<0.16.0,>=0.15.3

Downloading textblob-0.15.3-py2.py3-none-any.whl (636 kB)

Requirement already satisfied: pydantic!=1.8,!<1.8.1,<1.9.0,>=1.7.4 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (1.8.2)

WARNING: You are using pip version 21.2.4; however, version 22.0.3 is available.

Requirement already satisfied: blis<0.8.0,>=0.4.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (0.7.6)

Requirement already satisfied: wasabi<1.1.0,>=0.8.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (0.9.0)

Requirement already satisfied: numpy>=1.15.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (1.22.2)

Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (1.0.6)

Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (3.3.0)

Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.8 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (3.0.9)

Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (2.27.1)

Requirement already satisfied: cymem<2.1.0,>=2.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (2.0.6)

Requirement already satisfied: thinc<8.1.0,>=8.0.12 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (8.0.13)

Requirement already satisfied: Jinja2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (3.0.3)

Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (2.0.6)

Requirement already satisfied: packaging>=20.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (21.3)

Requirement already satisfied: typer<0.5.0,>=0.3.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (0.4.0)

Requirement already satisfied: pathy>=0.3.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (0.6.1)

Requirement already satisfied: setuptools in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (58.1.0)

Requirement already satisfied: srsly<3.0.0,>=2.4.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (2.4.2)

Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (4.63.0)

Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (1.0.1)

Requirement already satisfied: preshed<3.1.0,>=3.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<4.0,>=3.0->spacytextblob) (3.0.6)

Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from packaging>=20.0->spacy<4.0,>=3.0->spacytextblob) (3.0.7)

Requirement already satisfied: smart-open<6.0.0,>=5.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pathy>=0.3.5->spacy<4.0,>=3.0->spacytextblob) (5.2.1)

Requirement already satisfied: typing-extensions>=3.7.4.3 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pydantic!=1.8,!<1.8.1,<1.9.0,>=1.7.4->spacy<4.0,>=3.0->spacytextblob) (4.1.1)

Requirement already satisfied: charset-normalizer~2.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<4.0,>=3.0->spacytextblob) (2.0.12)

```

Requirement already satisfied: certifi>=2017.4.17 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<4.0,>=3.0->spacytextblob) (2021.10.8)
Requirement already satisfied: idna<4,>=2.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<4.0,>=3.0->spacytextblob) (3.3)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<4.0,>=3.0->spacytextblob) (1.26.8)
Collecting nltk>=3.1
  Downloading nltk-3.7-py3-none-any.whl (1.5 MB)
Requirement already satisfied: click in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from nltk>=3.1->textblob<0.16.0,>=0.15.3->spacytextblob) (8.0.4)
Collecting regex>=2021.8.3
  Downloading regex-2022.3.2-cp39-cp39-win_amd64.whl (274 kB)
Collecting joblib
  Downloading joblib-1.1.0-py2.py3-none-any.whl (306 kB)
Requirement already satisfied: colorama in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tqdm<5.0.0,>=4.38.0->spacy<4.0,>=3.0->spacytextblob) (0.4.4)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from jinja2->spacy<4.0,>=3.0->spacytextblob) (2.1.0)
Installing collected packages: regex, joblib, nltk, textblob, spacytextblob
Successfully installed joblib-1.1.0 nltk-3.7 regex-2022.3.2 spacytextblob-4.0.0 textblob-0.15.3

```

You should consider upgrading via the 'C:\Users\Administrator\AppData\Local\Programs\Python\Python39\python.exe -m pip install --upgrade pip' command.

In [6]: `! python -m spacy download en_core_web_sm`

```

Collecting en-core-web-sm==3.2.0
  Downloading https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-3.2.0/en_core_web_sm-3.2.0-py3-none-any.whl (13.9 MB)
Requirement already satisfied: spacy<3.3.0,>=3.2.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from en-core-web-sm==3.2.0) (3.2.3)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (1.0.6)
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (1.0.1)
Requirement already satisfied: packaging>=20.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (21.3)

```

WARNING: You are using pip version 21.2.4; however, version 22.0.3 is available.
You should consider upgrading via the 'C:\Users\Administrator\AppData\Local\Programs\Python\Python39\python.exe -m pip install --upgrade pip' command.

Requirement already satisfied: pydantic!=1.8,!<1.8.1,<1.9.0,>=1.7.4 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (1.8.2)

Requirement already satisfied: thinc<8.1.0,>=8.0.12 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (8.0.13)

Requirement already satisfied: numpy>=1.15.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (1.22.2)

Requirement already satisfied: srsly<3.0.0,>=2.4.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.4.2)

Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (4.63.0)

Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.0.6)

Requirement already satisfied: wasabi<1.1.0,>=0.8.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (0.9.0)

Requirement already satisfied: typer<0.5.0,>=0.3.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (0.4.0)

Requirement already satisfied: blis<0.8.0,>=0.4.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (0.7.6)

Requirement already satisfied: preshed<3.1.0,>=3.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (3.0.6)

Requirement already satisfied: pathy>=0.3.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (0.6.1)

Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.8 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (3.0.9)

Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.27.1)

Requirement already satisfied: jinja2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (3.0.3)

Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (3.3.0)

Requirement already satisfied: cymem<2.1.0,>=2.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.0.6)

Requirement already satisfied: setuptools in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (58.1.0)

Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from packaging>=20.0->spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (3.0.7)

Requirement already satisfied: smart-open<6.0.0,>=5.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pathy>=0.3.5->spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (5.2.1)

Requirement already satisfied: typing-extensions>=3.7.4.3 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pydantic!=1.8,!<1.8.1,<1.9.0,>=1.7.4->spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (4.1.1)

Requirement already satisfied: idna<4,>=2.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (3.3)

Requirement already satisfied: charset-normalizer~2.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.0.0)

```

ta\local\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy
<3.3.0,>=3.2.0->en-core-web-sm==3.2.0) (2.0.12)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\administrator\appdata\loc
al\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<3.
3.0,>=3.2.0->en-core-web-sm==3.2.0) (1.26.8)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\administrator\appdata\loca
l\programs\python\python39\lib\site-packages (from requests<3.0.0,>=2.13.0->spacy<3.3.0,
>=3.2.0->en-core-web-sm==3.2.0) (2021.10.8)
Requirement already satisfied: colorama in c:\users\administrator\appdata\local\programs
\python\python39\lib\site-packages (from tqdm<5.0.0,>=4.38.0->spacy<3.3.0,>=3.2.0->en-co
re-web-sm==3.2.0) (0.4.4)
Requirement already satisfied: click<9.0.0,>=7.1.1 in c:\users\administrator\appdata\loc
al\programs\python\python39\lib\site-packages (from typer<0.5.0,>=0.3.0->spacy<3.3.0,>=
3.2.0->en-core-web-sm==3.2.0) (8.0.4)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\administrator\appdata\local\p
rograms\python\python39\lib\site-packages (from jinja2->spacy<3.3.0,>=3.2.0->en-core-web
-sm==3.2.0) (2.1.0)
Installing collected packages: en-core-web-sm
Successfully installed en-core-web-sm-3.2.0
[+] Download and installation successful
You can now load the package via spacy.load('en_core_web_sm')

```

In [7]: `! pip install streamlit`

```

Collecting streamlit
  Downloading streamlit-1.7.0-py2.py3-none-any.whl (9.9 MB)
Requirement already satisfied: python-dateutil in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from streamlit) (2.8.2)
Collecting toml
  Downloading toml-0.10.2-py2.py3-none-any.whl (16 kB)
Collecting pydeck>=0.1.dev5
  Downloading pydeck-0.7.1-py2.py3-none-any.whl (4.3 MB)
Collecting semver
  Downloading semver-2.13.0-py2.py3-none-any.whl (12 kB)
Collecting astor
  Downloading astor-0.8.1-py2.py3-none-any.whl (27 kB)
Collecting cachetools>=4.0
  Downloading cachetools-5.0.0-py3-none-any.whl (9.1 kB)
Requirement already satisfied: click>=7.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from streamlit) (8.0.4)
Collecting pillow>=6.2.0
  Downloading Pillow-9.0.1-cp39-cp39-win_amd64.whl (3.2 MB)
Collecting tzlocal
  Downloading tzlocal-4.1-py3-none-any.whl (19 kB)
Collecting pandas>=0.21.0
  Downloading pandas-1.4.1-cp39-cp39-win_amd64.whl (10.5 MB)
Requirement already satisfied: tornado>=5.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from streamlit) (6.1)
Collecting validators
  Downloading validators-0.18.2-py3-none-any.whl (19 kB)
Requirement already satisfied: numpy in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from streamlit) (1.22.2)
Requirement already satisfied: attrs in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from streamlit) (21.4.0)
Collecting importlib-metadata>=1.4
  Downloading importlib_metadata-4.11.2-py3-none-any.whl (17 kB)
Collecting base58
  Downloading base58-2.1.1-py3-none-any.whl (5.6 kB)
Collecting gitpython!=3.1.19
  Downloading GitPython-3.1.27-py3-none-any.whl (181 kB)
Collecting watchdog
  Downloading watchdog-2.1.6-py3-none-win_amd64.whl (76 kB)
Collecting protobuf!=3.11,>=3.6.0
  Downloading protobuf-3.19.4-cp39-cp39-win_amd64.whl (895 kB)
Collecting pyarrow
  Downloading pyarrow-7.0.0-cp39-cp39-win_amd64.whl (16.1 MB)
Requirement already satisfied: packaging in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from streamlit) (21.3)
Collecting pympler>=0.9
  Downloading Pympler-1.0.1-py3-none-any.whl (164 kB)
Collecting altair>=3.2.0
  Downloading altair-4.2.0-py3-none-any.whl (812 kB)
Collecting blinker
  Downloading blinker-1.4.tar.gz (111 kB)
Requirement already satisfied: requests in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from streamlit) (2.27.1)
Collecting toolz
  Downloading toolz-0.11.2-py3-none-any.whl (55 kB)
Requirement already satisfied: jsonschema>=3.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from altair>=3.2.0->streamlit) (4.4.0)
Requirement already satisfied: entrypoints in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from altair>=3.2.0->streamlit) (0.4)
Requirement already satisfied: jinja2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from altair>=3.2.0->streamlit) (3.0.3)
Requirement already satisfied: colorama in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from click>=7.0->streamlit) (0.4.4)
Collecting gitdb<5,>=4.0.1
  Downloading gitdb-4.0.9-py3-none-any.whl (63 kB)
Loading [MathJax]/extensions/Safe.js

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Collecting smmap<6,>=3.0.1
  Downloading smmap-5.0.0-py3-none-any.whl (24 kB)
Collecting zipp>=0.5
  Downloading zipp-3.7.0-py3-none-any.whl (5.3 kB)
Requirement already satisfied: pyparsing!=0.17.0,!=0.17.1,!=0.17.2,>=0.14.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from jsonschema>=3.0->altair>=3.2.0->streamlit) (0.18.1)
Collecting pytz>=2020.1
  Downloading pytz-2021.3-py2.py3-none-any.whl (503 kB)
Requirement already satisfied: ipywidgets>=7.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pydeck>=0.1.dev5->streamlit) (7.6.5)
Requirement already satisfied: traitlets>=4.3.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pydeck>=0.1.dev5->streamlit) (5.1.1)
Requirement already satisfied: ipykernel>=5.1.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pydeck>=0.1.dev5->streamlit) (6.9.1)
Requirement already satisfied: nest-asyncio in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (1.5.4)
Requirement already satisfied: jupyter-client<8.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (7.1.2)
Requirement already satisfied: debugpy<2.0,>=1.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (1.5.1)
Requirement already satisfied: ipython>=7.23.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (8.1.1)
Requirement already satisfied: matplotlib-inline<0.2.0,>=0.1.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (0.1.3)
Requirement already satisfied: pygments>=2.4.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (2.11.2)
Requirement already satisfied: backcall in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (0.2.0)
Requirement already satisfied: prompt-toolkit!=3.0.0,!=3.0.1,<3.1.0,>=2.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (3.0.28)
Requirement already satisfied: pickleshare in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (0.7.5)
Requirement already satisfied: jedi>=0.16 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (0.18.1)
Requirement already satisfied: stack-data in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (0.2.0)
Requirement already satisfied: setuptools>=18.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (58.1.0)
Requirement already satisfied: decorator in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (5.1.1)
Requirement already satisfied: ipython-genutils<0.2.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.2.0)
Requirement already satisfied: jupyterlab-widgets>=1.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (1.0.2)
Requirement already satisfied: widgetsnbextension<3.5.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (3.5.2)
Requirement already satisfied: nbformat>=4.2.0 in c:\users\administrator\appdata\local\p

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rograms\python\python39\lib\site-packages (from ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (5.1.3)
 Requirement already satisfied: parso<0.9.0,>=0.8.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from jedi>=0.16->ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (0.8.3)
 Requirement already satisfied: MarkupSafe>=2.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from jinja2->altair>=3.2.0->streamlit) (2.1.0)
 Requirement already satisfied: pyzmq>=13 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from jupyter-client<8.0->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (22.3.0)
 Requirement already satisfied: jupyter-core>=4.6.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from jupyter-client<8.0->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (4.9.2)
 Requirement already satisfied: pywin32>=1.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from jupyter-core>=4.6.0->jupyter-client<8.0->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (303)
 Requirement already satisfied: wcwidth in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from prompt-toolkit!=3.0.0,!3.0.1,<3.1.0,>=2.0.0->ipython>=7.23.1->ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (0.2.5)
 Requirement already satisfied: six>=1.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from python-dateutil->streamlit) (1.16.0)
 Requirement already satisfied: notebook>=4.4.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (6.4.8)
 Requirement already satisfied: nbconvert in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (6.4.2)
 Requirement already satisfied: prometheus-client in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.13.1)
 Requirement already satisfied: terminado>=0.8.3 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.13.2)
 Requirement already satisfied: Send2Trash>=1.8.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (1.8.0)
 Requirement already satisfied: argon2-cffi in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (21.3.0)
 Requirement already satisfied: pywinpty>=1.1.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from terminado>=0.8.3->notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (2.0.4)
 Requirement already satisfied: argon2-cffi-bindings in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from argon2-cffi->notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (21.2.0)
 Requirement already satisfied: cffi>=1.0.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from argon2-cffi-bindings->argon2-cffi->notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (1.15.0)
 Requirement already satisfied: pycparser in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from cffi>=1.0.1->argon2-cffi-bindings->argon2-cffi->notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (2.21)
 Requirement already satisfied: mistune<2,>=0.8.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.8.4)
 Requirement already satisfied: pandocfilters>=1.4.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (1.5.0)
 Requirement already satisfied: nbclient<0.6.0,>=0.5.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.5.11)
 Requirement already satisfied: testpath in c:\users\administrator\appdata\local\programs

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\python\python39\lib\site-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~
=3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.6.0)
Requirement already satisfied: defusedxml in c:\users\administrator\appdata\local\progra
ms\python\python39\lib\site-packages (from nbconvert->notebook>=4.4.1->widgetsnbextensio
n~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.7.1)
Requirement already satisfied: bleach in c:\users\administrator\appdata\local\programs\p
ython\python39\lib\site-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~
=3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (4.1.0)
Requirement already satisfied: jupyterlab-pygments in c:\users\administrator\appdata\loc
al\programs\python\python39\lib\site-packages (from nbconvert->notebook>=4.4.1->widgetsn
bextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.1.2)
Requirement already satisfied: webencodings in c:\users\administrator\appdata\local\prog
rams\python\python39\lib\site-packages (from bleach->nbconvert->notebook>=4.4.1->widgets
nbextension~3.5.0->ipywidgets>=7.0.0->pydeck>=0.1.dev5->streamlit) (0.5.1)
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\users\administrator\appdat
a\local\programs\python\python39\lib\site-packages (from packaging->streamlit) (3.0.7)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\administrator\appdata\loca
l\programs\python\python39\lib\site-packages (from requests->streamlit) (2021.10.8)
Requirement already satisfied: charset-normalizer~2.0.0 in c:\users\administrator\appda
ta\local\programs\python\python39\lib\site-packages (from requests->streamlit) (2.0.12)
Requirement already satisfied: idna<4,>=2.5 in c:\users\administrator\appdata\local\prog
rams\python\python39\lib\site-packages (from requests->streamlit) (3.3)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\administrator\appdata\l
ocal\programs\python\python39\lib\site-packages (from requests->streamlit) (1.26.8)
Requirement already satisfied: executing in c:\users\administrator\appdata\local\program
s\python\python39\lib\site-packages (from stack-data->ipython>=7.23.1->ipykernel>=5.1.2-
>pydeck>=0.1.dev5->streamlit) (0.8.3)
Requirement already satisfied: pure-eval in c:\users\administrator\appdata\local\program
s\python\python39\lib\site-packages (from stack-data->ipython>=7.23.1->ipykernel>=5.1.2-
>pydeck>=0.1.dev5->streamlit) (0.2.2)
Requirement already satisfied: asttokens in c:\users\administrator\appdata\local\program
s\python\python39\lib\site-packages (from stack-data->ipython>=7.23.1->ipykernel>=5.1.2-
>pydeck>=0.1.dev5->streamlit) (2.0.5)
Collecting pytz-deprecation-shim
  Downloading pytz_deprecation_shim-0.1.0.post0-py2.py3-none-any.whl (15 kB)
Collecting tzdata
  Downloading tzdata-2021.5-py2.py3-none-any.whl (339 kB)
Using legacy 'setup.py install' for blinker, since package 'wheel' is not installed.
Installing collected packages: tzdata, smmap, pytz, zipp, toolz, pytz-deprecation-shim,
pandas, gitdb, watchdog, validators, tzlocal, toml, semver, pympler, pydeck, pyarrow, pr
otobuf, pillow, importlib-metadata, gitpython, cachetools, blinker, base58, astor, altai
r, streamlit
  Running setup.py install for blinker: started
  Running setup.py install for blinker: finished with status 'done'
Successfully installed altair-4.2.0 astor-0.8.1 base58-2.1.1 blinker-1.4 cachetools-5.0.
0 gitdb-4.0.9 gitpython-3.1.27 importlib-metadata-4.11.2 pandas-1.4.1 pillow-9.0.1 proto
buf-3.19.4 pyarrow-7.0.0 pydeck-0.7.1 pympler-1.0.1 pytz-2021.3 pytz-deprecation-shim-0.
1.0.post0 semver-2.13.0 smmap-5.0.0 streamlit-1.7.0 toml-0.10.2 toolz-0.11.2 tzdata-202
1.5 tzlocal-4.1 validators-0.18.2 watchdog-2.1.6 zipp-3.7.0
WARNING: You are using pip version 21.2.4; however, version 22.0.3 is available.
You should consider upgrading via the 'C:\Users\Administrator\AppData\Local\Programs\Pyt
hon\Python39\python.exe -m pip install --upgrade pip' command.

```

Status clasification

```
In [8]: !pip install -qq transformers
```

```
In [21]: !pip install tensorflow
```

Requirement already satisfied: tensorflow in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (2.8.0)

Requirement already satisfied: keras-preprocessing>=1.1.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (1.1.2)

Requirement already satisfied: tensorflow-io-gcs-filesystem>=0.23.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (0.24.0)

Requirement already satisfied: wrapt>=1.11.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (1.13.3)

Requirement already satisfied: google-pasta>=0.1.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (0.2.0)

Requirement already satisfied: grpcio<2.0,>=1.24.3 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (1.44.0)

Requirement already satisfied: tensorboard<2.9,>=2.8 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (2.8.0)

Requirement already satisfied: termcolor>=1.1.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (1.1.0)

Requirement already satisfied: h5py>=2.9.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (3.6.0)

Requirement already satisfied: opt-einsum>=2.3.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (3.3.0)

Requirement already satisfied: six>=1.12.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (1.16.0)

Requirement already satisfied: typing-extensions>=3.6.6 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (4.1.1)

Requirement already satisfied: protobuf>=3.9.2 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (3.19.4)

Requirement already satisfied: gast>=0.2.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (0.5.3)

Requirement already satisfied: keras<2.9,>=2.8.0rc0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (2.8.0)

Requirement already satisfied: numpy>=1.20 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (1.22.2)

Requirement already satisfied: flatbuffers>=1.12 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (2.0)

Requirement already satisfied: tf-estimator-nightly==2.8.0.dev2021122109 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (2.8.0.dev2021122109)

Requirement already satisfied: absl-py>=0.4.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (1.0.0)

Requirement already satisfied: libclang>=9.0.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (13.0.0)

Requirement already satisfied: astunparse>=1.6.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (1.6.3)

Requirement already satisfied: setuptools in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorflow) (58.1.0)

Requirement already satisfied: wheel<1.0,>=0.23.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from astunparse>=1.6.0->tensorflow) (0.37.1)

Requirement already satisfied: werkzeug>=0.11.15 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorboard<2.9,>=2.8->tensorflow) (2.0.3)

Requirement already satisfied: requests<3,>=2.21.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorboard<2.9,>=2.8->tensorflow) (2.27.1)

Requirement already satisfied: google-auth-oauthlib<0.5,>=0.4.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorboard<2.9,>=2.8->tensorflow) (0.4.6)

Requirement already satisfied: google-auth<3,>=1.6.3 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorboard<2.9,>=2.8->tensorflow) (2.6.0)

Requirement already satisfied: markdown>=2.6.8 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorboard<2.9,>=2.8->tensorflow) (3.3.6)

Requirement already satisfied: tensorboard-data-server<0.7.0,>=0.6.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorboard<2.9,>=2.8->tensorflow) (0.6.1)

Requirement already satisfied: tensorboard-plugin-wit>=1.6.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from tensorboard<2.9,>=2.8->tensorflow) (1.8.1)

Requirement already satisfied: cachetools<6.0,>=2.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.9,>=2.8->tensorflow) (5.0.0)

Requirement already satisfied: pyasn1-modules>=0.2.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.9,>=2.8->tensorflow) (0.2.8)

Requirement already satisfied: rsa<5,>=3.1.4 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from google-auth<3,>=1.6.3->tensorboard<2.9,>=2.8->tensorflow) (4.8)

Requirement already satisfied: requests-oauthlib>=0.7.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from google-auth-oauthlib<0.5,>=0.4.1->tensorboard<2.9,>=2.8->tensorflow) (1.3.1)

Requirement already satisfied: importlib-metadata>=4.4 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from markdown>=2.6.8->tensorboard<2.9,>=2.8->tensorflow) (4.11.2)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.9,>=2.8->tensorflow) (2021.10.8)

Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.9,>=2.8->tensorflow) (1.26.8)

Requirement already satisfied: idna<4,>=2.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.9,>=2.8->tensorflow) (3.3)

Requirement already satisfied: charset-normalizer~=2.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests<3,>=2.21.0->tensorboard<2.9,>=2.8->tensorflow) (2.0.12)

Requirement already satisfied: zipp>=0.5 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from importlib-metadata>=4.4->markdown>=2.6.8->tensorboard<2.9,>=2.8->tensorflow) (3.7.0)

Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from pyasn1-modules>=0.2.1->google-auth<3,>=1.6.3->tensorboard<2.9,>=2.8->tensorflow) (0.4.8)

Requirement already satisfied: oauthlib>=3.0.0 in c:\users\administrator\appdata\local\programs\python\python39\lib\site-packages (from requests-oauthlib>=0.7.0->google-auth-oauthlib<0.5,>=0.4.1->tensorboard<2.9,>=2.8->tensorflow) (3.2.0)

```
In [1]: import tensorflow as tf
```

```
In [2]: from transformers import pipeline
classifier = pipeline("zero-shot-classification", device=0)
```

No model was supplied, defaulted to roberta-large-mnli (<https://huggingface.co/roberta-large-mnli>)

Downloading: 0%| | 0.00/688 [00:00<?, ?B/s]

Downloading: 0%| | 0.00/1.33G [00:00<?, ?B/s]

All model checkpoint layers were used when initializing TFRobertaForSequenceClassification.

All the layers of TFRobertaForSequenceClassification were initialized from the model checkpoint at roberta-large-mnli.

If your task is similar to the task the model of the checkpoint was trained on, you can already use TFRobertaForSequenceClassification for predictions without further training.

Downloading: 0%| | 0.00/878k [00:00<?, ?B/s]

Downloading: 0%| | 0.00/446k [00:00<?, ?B/s]

Downloading: 0%| | 0.00/1.29M [00:00<?, ?B/s]

```
Loading [MathJax]/extensions/Safe.js s = ["job", "music", "sport"]
```

```
classifier("let her go is my favorite song", candidate_labels)
```

```
Out[6]: {'sequence': 'let her go is my favorite song',  
        'labels': ['music', 'sport', 'job'],  
        'scores': [0.9675995111465454, 0.016376608982682228, 0.01602388359606266]}
```

```
In [ ]:
```