

Abdul Basit_DSC680_Week8_Project2_Milestone_3

File: Abdul Basit_DSC680_Week8_Project2_Milestone_3.ipynb Name: Abdul Basit Date: 02/04/2023 Course: DSC 680 Applied Data Science Title: Club Soccer Prediction Analysis

Club Soccer Prediction Analysis

```
In [1]: from __future__ import print_function, division
from bs4 import BeautifulSoup
from matplotlib import pyplot as plt
from sklearn import preprocessing

import seaborn as sns
import statsmodels.formula.api as smf
import pandas as pd
import numpy as np
import math
import scipy.stats
import random
import requests
```

```
!apt-get update
!apt-get install -y default-jdk
!pip install tabula-py xlrd lxml
```

'apt-get' is not recognized as an internal or external command,
operable program or batch file.

'apt-get' is not recognized as an internal or external command,
operable program or batch file.

Requirement already satisfied: tabula-py in c:\users\basiab1\anaconda3\lib\site-packages (2.6.0)

Requirement already satisfied: xlrd in c:\users\basiab1\anaconda3\lib\site-packages (2.0.1)

Requirement already satisfied: lxml in c:\users\basiab1\anaconda3\lib\site-packages (4.6.3)

Requirement already satisfied: distro in c:\users\basiab1\anaconda3\lib\site-packages (from tabula-py) (1.8.0)

Requirement already satisfied: numpy in c:\users\basiab1\anaconda3\lib\site-packages (from tabula-py) (1.24.1)

Requirement already satisfied: pandas>=0.25.3 in c:\users\basiab1\anaconda3\lib\site-packages (from tabula-py) (1.3.4)

Requirement already satisfied: pytz>=2017.3 in c:\users\basiab1\anaconda3\lib\site-packages (from pandas>=0.25.3->tabula-py) (2021.3)

Requirement already satisfied: python-dateutil>=2.7.3 in c:\users\basiab1\anaconda3\lib\site-packages (from pandas>=0.25.3->tabula-py) (2.8.2)

Requirement already satisfied: six>=1.5 in c:\users\basiab1\anaconda3\lib\site-packages (from python-dateutil>=2.7.3->pandas>=0.25.3->tabula-py) (1.16.0)

```
WARNING: Ignoring invalid distribution -rotobuf (c:\users\basiab1\anaconda3\lib\site-packages)
WARNING: Ignoring invalid distribution -rotobuf (c:\users\basiab1\anaconda3\lib\site-packages)
WARNING: Ignoring invalid distribution -rotobuf (c:\users\basiab1\anaconda3\lib\site-packages)
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WARNING: Ignoring invalid distribution -rotobuf (c:\users\basiab1\anaconda3\lib\site-packages)
WARNING: Ignoring invalid distribution -rotobuf (c:\users\basiab1\anaconda3\lib\site-packages)
```

Take a quick view of the data. The csv file `spi_matches.csv` contains match-by-match SPI ratings and forecasts.

In [2]: `# Read CSV File`

```
df = pd.read_csv("spi_matches_latest.csv")
```

In [3]: `df.head()`

Out[3]:

	season	date	league_id	league	team1	team2	spi1	spi2	prob1	prob2	...	imp
0	2019	3/1/2019	1979	Chinese Super League	Shandong Luneng	Guizhou Renhe	48.22	37.83	0.5755	0.1740	...	
1	2019	3/1/2019	1979	Chinese Super League	Shanghai Greenland	Shanghai SIPG	39.81	60.08	0.2387	0.5203	...	
2	2019	3/1/2019	1979	Chinese Super League	Guangzhou Evergrande	Tianjin Quanjian	65.59	39.99	0.7832	0.0673	...	
3	2019	3/1/2019	1979	Chinese Super League	Wuhan Zall	Beijing Guoan	32.25	54.82	0.2276	0.5226	...	
4	2019	3/1/2019	1979	Chinese Super League	Chongqing Lifan	Guangzhou RF	38.24	40.45	0.4403	0.2932	...	

5 rows × 23 columns

The data saved the score from each game (team1 vs team2), and some historical data of each team. SPI stands for Soccer Power Index, score1 and score2 are the scores of the game.

In [4]: `# How many rows and how many columns are in my dataframe?`

```
df.shape
```

Out[4]: (11443, 23)

In [5]: *# Since the data has 34580 records (it's still updating so the data size may change),
for example Juventus (an Italian League team).*

```
J_df = df[df['team1']=='Juventus']
```

In [6]: J_df.shape

Out[6]: (23, 23)

In [7]: J_df.head()

Out[7]:

	season	date	league_id	league	team1	team2	spi1	spi2	prob1	prob2	...
2534	2022	8/15/2022	1854	Italy Serie A	Juventus	Sassuolo	69.94	60.30	0.5443	0.2274	...
3009	2022	8/27/2022	1854	Italy Serie A	Juventus	AS Roma	70.03	73.60	0.3711	0.3461	...
3230	2022	8/31/2022	1854	Italy Serie A	Juventus	Spezia	69.79	46.93	0.6571	0.1278	...
3846	2022	9/11/2022	1854	Italy Serie A	Juventus	Salernitana	69.95	49.05	0.6402	0.1379	...
3936	2022	9/14/2022	1818	UEFA Champions League	Juventus	Benfica	68.94	76.93	0.3637	0.3661	...

5 rows × 23 columns

In [8]: *# Apply filter for the fields that I am interested in, which is team SPI during that s*

```
df1 = J_df[['date', 'league', 'team1', 'team2', 'spi1', 'spi2', 'score1', 'score2']]
df1.shape
```

Out[8]: (23, 8)

Identify bad data

In [9]: *# Check last few rows of the data*

```
df1.tail()
```

Out[9]:

	date	league	team1	team2	spi1	spi2	score1	score2
9797	4/1/2023	Italy Serie A	Juventus	Verona	72.3	58.27	NaN	NaN
10542	4/23/2023	Italy Serie A	Juventus	Napoli	72.3	82.66	NaN	NaN
10796	5/3/2023	Italy Serie A	Juventus	Lecce	72.3	55.08	NaN	NaN
11078	5/14/2023	Italy Serie A	Juventus	Cremonese	72.3	48.93	NaN	NaN
11374	5/28/2023	Italy Serie A	Juventus	AC Milan	72.3	72.19	NaN	NaN

It shows some missing values. These are match fixtures happening in future dates so there are no scores yet. Those data points need to be removed.

```
In [10]: # Drop N/As

df1 = df1.dropna()
df1.shape
```

```
Out[10]: (14, 8)
```

Format data into a more readable form

```
In [11]: # Check the format of data, sometimes the date is not in the format we want. It needs

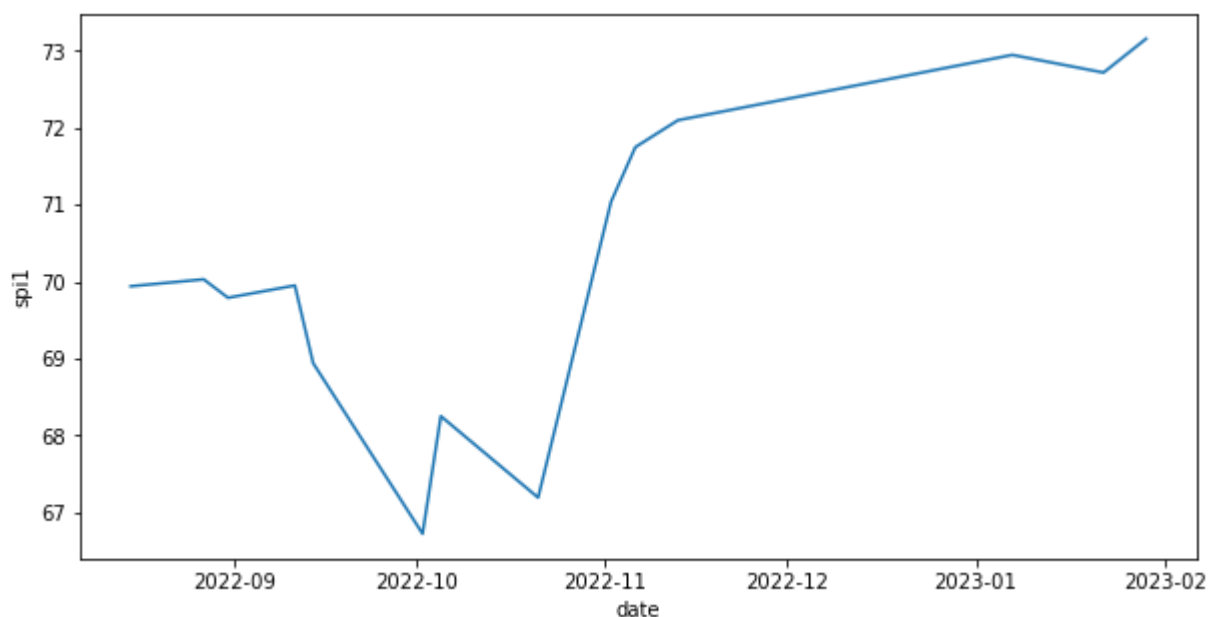
df1.dtypes
```

```
Out[11]: date      object
league    object
team1     object
team2     object
spi1      float64
spi2      float64
score1    float64
score2    float64
dtype: object
```

```
In [12]: df1['date'] = pd.to_datetime(df1['date'])
```

```
In [13]: # Plot the Juventus Soccer Power Index over time

plt.figure(figsize=(10,5))
sns.lineplot(data=df1, x="date", y="spi1")
plt.show()
```



The drop on October 2022 is because the entire Juventus management resigned due to ongoing financial investigations. Meanwhile, Exor – the holding company which owns a majority

share in Juventus – have noted that they see Gianluca Ferrero as the man to replace Agnelli as club President.

Conduct Fuzzy Matching

```
In [14]: # Plot the spi score of couple top teams. Here I only selected Juventus, Liverpool, Barcelona, Bayern Munich, since it's just for a simple illustration
```

```
df2 = df[df['team1'].isin(['Juventus', 'Liverpool', 'Barcelona', 'Bayern Munich'])]
```

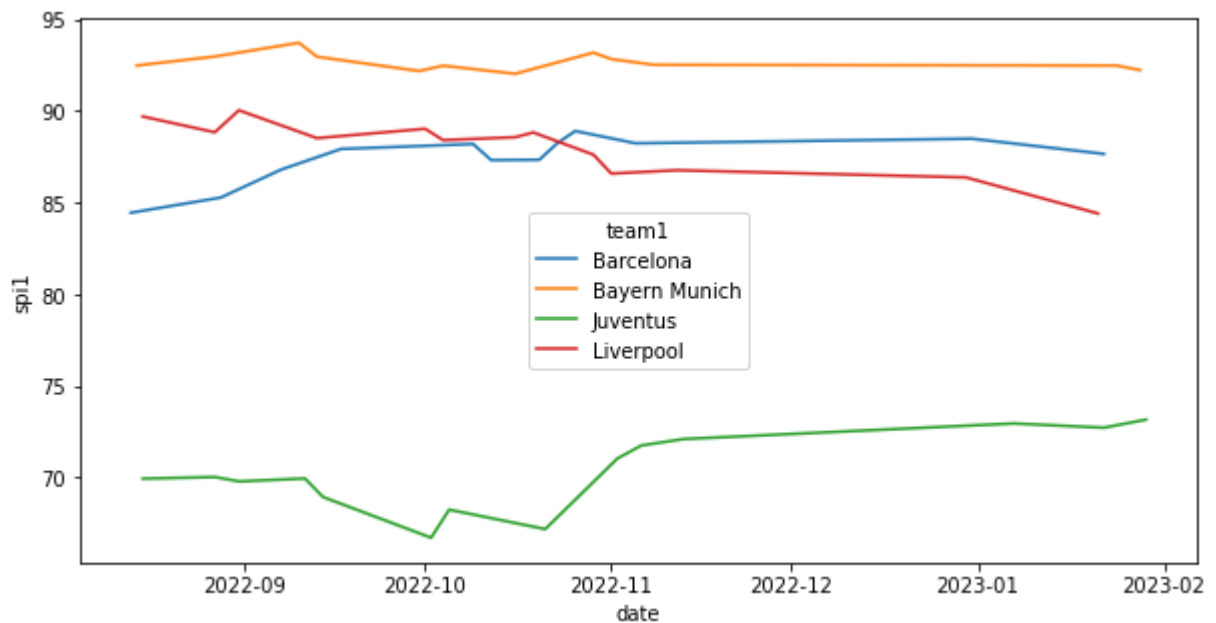
```
In [15]: # Clean the data
```

```
df2 = df2[['date', 'league', 'team1', 'team2', 'spi1', 'spi2', 'score1', 'score2']]
df2 = df2.dropna()
df2['date'] = pd.to_datetime(df2['date'])
df2.shape
```

```
Out[15]: (51, 8)
```

```
In [16]: # Plot the performance of the top teams
```

```
plt.figure(figsize=(10,5))
sns.lineplot(data=df2, x="date", y="spi1", hue='team1')
plt.show()
```



Some Inferences so far: 1) Huge improvement observed for Liverpool during 2018 and consistency through 2020 2) Bayern Munich showing consistent performance 3) Barcelona performance has declined since 2017 4) Juventus has too much variations in their performance, specially since 2019

```
In [17]: df_I = df[df['league']=='Italy Serie A']
df_I = df_I[['date', 'team1', 'team2', 'spi1', 'spi2', 'score1', 'score2']]
```

```
In [18]: df_I.head()
```

Out[18]:

	date	team1	team2	spi1	spi2	score1	score2
2360	8/13/2022	AC Milan	Udinese	78.31	57.94	4.0	2.0
2361	8/13/2022	Sampdoria	Atalanta	52.95	73.01	0.0	2.0
2385	8/13/2022	Monza	Torino	52.84	62.83	1.0	2.0
2390	8/13/2022	Lecce	Internazionale	50.41	82.17	1.0	2.0
2483	8/14/2022	Fiorentina	Cremonese	67.61	49.25	3.0	2.0

```
In [19]: # Select the goal and goal lost for each team, rename the columns and stack them together
df_I1 = df_I[['date', 'team1', 'score1', 'score2']]
df_I2 = df_I[['date', 'team2', 'score2', 'score1']]
df_I1.columns=['date', 'team', 'offense', 'defense']
df_I2.columns=['date', 'team', 'offense', 'defense']
```

```
In [20]: frames = [df_I1, df_I2]
df_I3 = pd.concat(frames)
df_I3.shape
```

Out[20]: (760, 4)

```
In [21]: # Calculate a simple offense and defense index for each team.
df_score = df_I3.groupby(['team'], as_index=False).mean()
```

In [22]: df_score

Out[22]:

	team	offense	defense
0	AC Milan	1.850000	1.450000
1	AS Roma	1.315789	0.842105
2	Atalanta	1.950000	1.150000
3	Bologna	1.300000	1.500000
4	Cremonese	0.750000	1.750000
5	Empoli	0.950000	1.200000
6	Fiorentina	1.105263	1.315789
7	Internazionale	2.000000	1.300000
8	Juventus	1.500000	0.850000
9	Lazio	1.842105	0.789474
10	Lecce	0.950000	1.200000
11	Monza	1.250000	1.400000
12	Napoli	2.421053	0.736842
13	Salernitana	1.250000	1.900000
14	Sampdoria	0.400000	1.700000
15	Sassuolo	1.150000	1.550000
16	Spezia	0.850000	1.600000
17	Torino	1.050000	1.100000
18	Udinese	1.421053	1.105263
19	Verona	0.894737	1.631579

I want to put them into a scatterplot, so I want to fit them into a reasonable range. I will start with standarizing. I also multiplid defense index with -1, I want to makse sure the higher score means better performance.

In [23]: ! pip install preprocessing

```
Requirement already satisfied: preprocessing in c:\users\basiab1\anaconda3\lib\site-packages (0.1.13)
Requirement already satisfied: sphinx-rtd-theme==0.2.4 in c:\users\basiab1\anaconda3\lib\site-packages (from preprocessing) (0.2.4)
Requirement already satisfied: nltk==3.2.4 in c:\users\basiab1\anaconda3\lib\site-packages (from preprocessing) (3.2.4)
Requirement already satisfied: six in c:\users\basiab1\anaconda3\lib\site-packages (from nltk==3.2.4->preprocessing) (1.16.0)
```

```
WARNING: Ignoring invalid distribution -rotobuf (c:\users\basiab1\anaconda3\lib\site-packages)
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WARNING: Ignoring invalid distribution -rotobuf (c:\users\basiab1\anaconda3\lib\site-packages)
```

In [27]: `conda update --all`

```
Collecting package metadata (current_repodata.json): ...working... done
Note: you may need to restart the kernel to use updated packages.
Solving environment: ...working...
Warning: 2 possible package resolutions (only showing differing packages):
  - defaults/win-64::dask-2022.5.0-py39haa95532_0, defaults/win-64::dask-core-2022.5.0-py39haa95532_0, defaults/win-64::distributed-2022.5.0-py39haa95532_0, defaults/win-64::jupyter_client-7.4.8-py39haa95532_0, defaults/win-64::tornado-6.2-py39h2bbff1b_0
  - defaults/win-64::dask-2022.7.0-py39haa95532_0, defaults/win-64::dask-core-2022.7.0-py39haa95532_0, defaults/win-64::distributed-2022.7.0-py39haa95532_0, defaults/win-64::jupyter_client-7.3.4-py39haa95532_0, defaults/win-64::tornado-6.1-py39h2bbff1b_0d
one
```

Package Plan

environment location: C:\Users\basiab1\Anaconda3

The following packages will be downloaded:

package	build	
-----	-----	
_anaconda_depends-2022.10	py39_2	68 KB
anaconda-client-1.11.0	py39haa95532_0	165 KB
anyio-3.5.0	py39haa95532_0	167 KB
argon2-cffi-21.3.0	pyhd3eb1b0_0	15 KB
argon2-cffi-bindings-21.2.0	py39h2bbff1b_0	36 KB
arrow-1.2.3	py39haa95532_0	145 KB
astroid-2.11.7	py39haa95532_0	341 KB
astropy-5.1	py39h080aedc_0	6.4 MB
attrs-22.1.0	py39haa95532_0	84 KB
automat-20.2.0	py_0	31 KB
autopep8-1.6.0	pyhd3eb1b0_1	43 KB
babel-2.11.0	py39haa95532_0	6.8 MB
backports-1.1	pyhd3eb1b0_0	4 KB
bcrypt-3.2.0	py39h2bbff1b_1	37 KB
beautifulsoup4-4.11.1	py39haa95532_0	190 KB
bitarray-2.5.1	py39h2bbff1b_0	157 KB
bkcharts-0.2	py39haa95532_1	132 KB
black-22.6.0	py39haa95532_0	244 KB

```
WARNING conda.gateways.disk.delete:unlink_or_rename_to_trash(143): Could not remove or rename C:\Users\basiab1\Anaconda3\Lib\site-packages\matplotlib\mpl-data\fonts\ttf\DejaVuSans.ttf. Please remove this file manually (you may need to reboot to free file handles)
```


bleach-4.1.0	pyhd3eb1b0_0	123 KB
blosc-1.21.3	h6c2663c_0	86 KB
bokeh-2.4.3	py39haa95532_0	7.6 MB
boto3-1.24.28	py39haa95532_0	114 KB
botocore-1.27.59	py39haa95532_0	5.7 MB
bottleneck-1.3.5	py39h080aedc_0	106 KB
brotli-1.0.9	h2bbff1b_7	18 KB
brotli-bin-1.0.9	h2bbff1b_7	19 KB
ca-certificates-2023.01.10	haa95532_0	121 KB
cffi-1.15.1	py39h2bbff1b_3	238 KB
cfitsio-3.470	h2bbff1b_7	518 KB
click-8.0.4	py39haa95532_0	155 KB
colorama-0.4.6	py39haa95532_0	32 KB
colorcet-3.0.1	py39haa95532_0	1.9 MB
comm-0.1.2	py39haa95532_0	14 KB
conda-23.1.0	py39haa95532_0	946 KB
conda-build-3.23.3	py39haa95532_0	576 KB
conda-content-trust-0.1.3	py39haa95532_0	86 KB
conda-env-2.6.0	haa95532_1	3 KB
conda-package-handling-2.0.2	py39haa95532_0	286 KB
conda-package-streaming-0.7.0	py39haa95532_0	27 KB
conda-repo-cli-1.0.27	py39haa95532_0	130 KB
conda-token-0.4.0	pyhd3eb1b0_0	13 KB
constantly-15.1.0	pyh2b92418_0	10 KB
contourpy-1.0.5	py39h59b6b97_0	159 KB
cookiecutter-1.7.3	pyhd3eb1b0_0	79 KB
cryptography-38.0.4	py39h21b164f_0	1.0 MB
cssselect-1.1.0	pyhd3eb1b0_0	18 KB
curl-7.87.0	h2bbff1b_0	145 KB
cycler-0.11.0	pyhd3eb1b0_0	12 KB
cython-0.29.32	py39hd77b12b_0	1.7 MB
cytoolz-0.12.0	py39h2bbff1b_0	288 KB
daal4py-2021.6.0	py39h757b272_1	8.0 MB
dal-2021.6.0	h59b6b97_874	46.5 MB
dask-2022.5.0	py39haa95532_0	20 KB
dask-core-2022.5.0	py39haa95532_0	1.6 MB
datashader-0.14.3	py39haa95532_0	16.8 MB
datashape-0.5.4	py39haa95532_1	103 KB
debugpy-1.5.1	py39hd77b12b_0	2.6 MB
decorator-5.1.1	pyhd3eb1b0_0	12 KB
dill-0.3.6	py39haa95532_0	186 KB
distributed-2022.5.0	py39haa95532_0	1.1 MB
docutils-0.18.1	py39haa95532_3	666 KB
entrypoints-0.4	py39haa95532_0	17 KB
fftw-3.3.9	h2bbff1b_1	672 KB
filelock-3.9.0	py39haa95532_0	19 KB
flake8-4.0.1	pyhd3eb1b0_1	118 KB
flask-2.2.2	py39haa95532_0	165 KB
freetype-2.12.1	ha860e81_0	490 KB
gensim-4.3.0	py39hd77b12b_0	21.6 MB
giflib-5.2.1	h8cc25b3_1	81 KB
glib-2.69.1	h5dc1a3c_2	1.8 MB
greenlet-2.0.1	py39hd77b12b_0	179 KB
gst-plugins-base-1.18.5	h9e645db_0	1.7 MB
gststreamer-1.18.5	hd78058f_0	1.7 MB
h5py-3.7.0	py39h3de5c98_0	823 KB
hdf5-1.10.6	h1756f20_1	7.9 MB
holoviews-1.15.3	py39haa95532_0	4.4 MB
hvplot-0.8.2	py39haa95532_0	3.1 MB
hyperlink-21.0.0	pyhd3eb1b0_0	70 KB

icc_rt-2022.1.0	h6049295_2	6.5 MB	
idna-3.4	py39haa95532_0	93 KB	
imagecodecs-2021.8.26	py39hc0a7faf_1	6.0 MB	
imageio-2.19.3	py39haa95532_0	3.3 MB	
imagesize-1.4.1	py39haa95532_0	14 KB	
importlib-metadata-4.11.3	py39haa95532_0	41 KB	
importlib_metadata-4.11.3	hd3eb1b0_0	12 KB	
incremental-21.3.0	pyhd3eb1b0_0	17 KB	
intake-0.6.6	py39haa95532_0	221 KB	
ipykernel-6.19.2	py39hd4e2768_0	218 KB	
ipython-7.31.1	py39haa95532_1	1024 KB	
itemadapter-0.3.0	pyhd3eb1b0_0	13 KB	
itemloaders-1.0.4	pyhd3eb1b0_1	14 KB	
jedi-0.18.1	py39haa95532_1	982 KB	
jellyfish-0.9.0	py39h2bbff1b_0	46 KB	
jinja2-3.1.2	py39haa95532_0	211 KB	
jinja2-time-0.2.0	pyhd3eb1b0_3	9 KB	
jmespath-0.10.0	pyhd3eb1b0_0	22 KB	
joblib-1.1.1	py39haa95532_0	383 KB	
jpeg-9e	h2bbff1b_0	292 KB	
jq-1.6	haa95532_1	992 KB	
jsonschema-4.16.0	py39haa95532_0	143 KB	
jupyter-1.0.0	py39haa95532_8	7 KB	
jupyter_client-7.4.8	py39haa95532_0	227 KB	
jupyter_console-6.4.4	py39haa95532_0	62 KB	
jupyter_core-5.1.1	py39haa95532_0	107 KB	
jupyter_server-1.23.4	py39haa95532_0	399 KB	
jupyterlab-3.5.3	py39haa95532_0	4.0 MB	
jupyterlab_server-2.16.5	py39haa95532_0	81 KB	
keyring-23.4.0	py39haa95532_0	72 KB	
kiwisolver-1.4.4	py39hd77b12b_0	60 KB	
libarchive-3.6.2	hebabd0d_0	1.8 MB	
libbrotlicommon-1.0.9	h2bbff1b_7	71 KB	
libbrotlidec-1.0.9	h2bbff1b_7	30 KB	
libbrotlienc-1.0.9	h2bbff1b_7	233 KB	
libclang-12.0.0	default_h627e005_2	17.8 MB	
libcurl-7.87.0	h86230a5_0	324 KB	
libffi-3.4.2	hd77b12b_6	109 KB	
libiconv-1.16	h2bbff1b_2	651 KB	
liblief-0.12.3	hd77b12b_0	2.4 MB	
libogg-1.3.5	h2bbff1b_1	33 KB	
libsodium-1.0.18	h62dcd97_0	477 KB	
libssh2-1.10.0	hcd4344a_0	222 KB	
libtiff-4.5.0	h6c2663c_1	1.2 MB	
libvorbis-1.3.7	he774522_0	202 KB	
libwebp-1.2.4	h2bbff1b_0	67 KB	
libwebp-base-1.2.4	h2bbff1b_0	279 KB	
libxml2-2.9.14	h0ad7f3c_0	1.5 MB	
libxslt-1.1.35	h2bbff1b_0	407 KB	
llvmlite-0.39.1	py39h23ce68f_0	13.3 MB	
locket-1.0.0	py39haa95532_0	13 KB	
lxml-4.9.1	py39h1985fb9_0	936 KB	
lz4-3.1.3	py39h2bbff1b_0	96 KB	
lz4-c-1.9.4	h2bbff1b_0	143 KB	
m2-msys2-runtime-2.5.0.17080.65c939c		3	3.0 MB
m2-patch-2.7.5	2	89 KB	
markdown-3.4.1	py39haa95532_0	148 KB	
markupsafe-2.1.1	py39h2bbff1b_0	26 KB	
matplotlib-3.6.2	py39haa95532_0	9 KB	
matplotlib-base-3.6.2	py39h1094b8e_0	6.5 MB	

matplotlib-inline-0.1.6	py39haa95532_0	17 KB
mccabe-0.7.0	pyhd3eb1b0_0	11 KB
menuinst-1.4.19	py39h59b6b97_0	94 KB
msgpack-python-1.0.3	py39h59b6b97_0	75 KB
mypy_extensions-0.4.3	py39haa95532_1	10 KB
navigator-updater-0.3.0	py39haa95532_0	2.2 MB
nbclassic-0.4.8	py39haa95532_0	5.9 MB
nbclient-0.5.13	py39haa95532_0	108 KB
nbconvert-6.5.4	py39haa95532_0	537 KB
nbformat-5.7.0	py39haa95532_0	152 KB
nest-asyncio-1.5.6	py39haa95532_0	15 KB
networkx-2.8.4	py39haa95532_0	2.2 MB
nlTK-3.7	pyhd3eb1b0_0	1010 KB
nose-1.3.7	pyhd3eb1b0_1008	142 KB
notebook-6.5.2	py39haa95532_0	538 KB
notebook-shim-0.2.2	py39haa95532_0	23 KB
numba-0.56.4	py39hf11a4ad_0	4.0 MB
numexpr-2.8.4	py39h5b0cc5e_0	127 KB
numpy-1.23.5	py39h3b20f71_0	11 KB
numpy-base-1.23.5	py39h4da318b_0	6.0 MB
numpydoc-1.5.0	py39haa95532_0	91 KB
openpyxl-3.0.10	py39h2bbff1b_0	468 KB
packaging-22.0	py39haa95532_0	67 KB
pandas-1.5.2	py39hf11a4ad_0	10.5 MB
pandocfilters-1.5.0	pyhd3eb1b0_0	11 KB
panel-0.14.2	py39haa95532_0	12.3 MB
param-1.12.3	py39haa95532_0	149 KB
paramiko-2.8.1	pyhd3eb1b0_0	139 KB
parsel-1.6.0	py39haa95532_0	351 KB
parso-0.8.3	pyhd3eb1b0_0	70 KB
partd-1.2.0	pyhd3eb1b0_1	18 KB
pathlib-1.0.1	pyhd3eb1b0_1	17 KB
pathspec-0.10.3	py39haa95532_0	49 KB
patsy-0.5.3	py39haa95532_0	289 KB
pcre-8.45	hd77b12b_0	382 KB
pep8-1.7.1	py39haa95532_1	69 KB
pillow-9.3.0	py39hd77b12b_2	992 KB
pip-22.3.1	py39haa95532_0	2.7 MB
pkginfo-1.8.3	py39haa95532_0	62 KB
platformdirs-2.5.2	py39haa95532_0	24 KB
plotly-5.9.0	py39haa95532_0	4.1 MB
pluggy-1.0.0	py39haa95532_1	29 KB
prometheus_client-0.14.1	py39haa95532_0	89 KB
prompt-toolkit-3.0.36	py39haa95532_0	565 KB
prompt_toolkit-3.0.36	hd3eb1b0_0	5 KB
protego-0.1.16	py_0	2.2 MB
psutil-5.9.0	py39h2bbff1b_0	349 KB
py-1.11.0	pyhd3eb1b0_0	76 KB
py-lief-0.12.3	py39hd77b12b_0	2.0 MB
pyasn1-0.4.8	pyhd3eb1b0_0	54 KB
pyasn1-modules-0.2.8	py_0	72 KB
pycodestyle-2.8.0	pyhd3eb1b0_0	41 KB
pycosat-0.6.4	py39h2bbff1b_0	74 KB
pycparser-2.21	pyhd3eb1b0_0	94 KB
pyct-0.5.0	py39haa95532_0	49 KB
pycurl-7.45.1	py39hcd4344a_0	71 KB
pydispatcher-2.0.5	py39haa95532_2	20 KB
pydocstyle-6.3.0	py39haa95532_0	89 KB
pyflakes-2.4.0	pyhd3eb1b0_0	60 KB
pygments-2.11.2	pyhd3eb1b0_0	759 KB

pyhamcrest-2.0.2	pyhd3eb1b0_2	31 KB
pyjwt-2.4.0	py39haa95532_0	38 KB
pylint-2.14.5	py39haa95532_0	652 KB
pynacl-1.5.0	py39h8cc25b3_0	1.2 MB
pyodbc-4.0.34	py39hd77b12b_0	64 KB
pyopenssl-22.0.0	pyhd3eb1b0_0	50 KB
pyparsing-3.0.9	py39haa95532_0	152 KB
pyqt-5.15.7	py39hd77b12b_0	3.7 MB
pyqt5-sip-12.11.0	py39hd77b12b_0	75 KB
pyqtwebengine-5.15.7	py39hd77b12b_0	123 KB
pytables-3.7.0	py39h388bc9b_1	2.8 MB
pytest-7.1.2	py39haa95532_0	479 KB
python-3.9.16	h6244533_0	19.4 MB
python-fastjsonschema-2.16.2	py39haa95532_0	231 KB
python-lsp-black-1.2.1	py39haa95532_0	14 KB
python-lsp-server-1.5.0	py39haa95532_0	106 KB
python-snappy-0.6.1	py39hd77b12b_0	33 KB
pytz-2022.7	py39haa95532_0	210 KB
pyviz_comms-2.0.2	pyhd3eb1b0_0	23 KB
pywavelets-1.4.1	py39h2bbff1b_0	3.5 MB
pywin32-305	py39h2bbff1b_0	10.7 MB
pywinpty-2.0.2	py39h5da7b33_0	200 KB
pyzmq-23.2.0	py39hd77b12b_0	404 KB
qstylizer-0.2.2	py39haa95532_0	30 KB
qt-5.15.7	haa95532_0	9 KB
qt-main-5.15.2	he8e5bd7_7	50.0 MB
qt-webengine-5.15.9	hb9a9bb5_5	48.9 MB
qtawesome-1.2.2	py39haa95532_0	1.6 MB
qtconsole-5.3.2	py39haa95532_0	202 KB
qtpy-2.2.0	py39haa95532_0	106 KB
qtwebkit-5.212	h3ad3cdb_4	10.3 MB
queuelib-1.5.0	py39haa95532_0	259 KB
regex-2022.7.9	py39h2bbff1b_0	307 KB
requests-2.28.1	py39haa95532_0	99 KB
requests-file-1.5.1	pyhd3eb1b0_0	8 KB
rope-0.22.0	pyhd3eb1b0_0	129 KB
rtree-1.0.1	py39h2eaa2aa_0	49 KB
ruamel.yaml-0.17.21	py39h2bbff1b_0	174 KB
ruamel.yaml.clib-0.2.6	py39h2bbff1b_1	101 KB
ruamel.yaml-0.17.21	py39h2bbff1b_0	190 KB
s3transfer-0.6.0	py39haa95532_0	110 KB
scikit-image-0.19.3	py39hd77b12b_1	10.0 MB
scikit-learn-1.0.2	py39hf11a4ad_1	5.1 MB
scikit-learn-intelex-2021.6.0	py39haa95532_0	75 KB
scipy-1.9.3	py39he11b74f_0	18.0 MB
scrapy-2.6.2	py39haa95532_0	387 KB
seaborn-0.12.2	py39haa95532_0	483 KB
service_identity-18.1.0	pyhd3eb1b0_1	13 KB
setuptools-65.6.3	py39haa95532_0	1.1 MB
sip-6.6.2	py39hd77b12b_0	434 KB
six-1.16.0	pyhd3eb1b0_1	18 KB
smart_open-5.2.1	py39haa95532_0	81 KB
snappy-1.1.9	h6c2663c_0	2.2 MB
snowballstemmer-2.2.0	pyhd3eb1b0_0	61 KB
soupsieve-2.3.2.post1	py39haa95532_0	66 KB
sphinx-5.0.2	py39haa95532_0	1.7 MB
spyder-5.3.3	py39haa95532_0	9.4 MB
spyder-kernels-2.3.3	py39haa95532_0	110 KB
sqlalchemy-1.4.39	py39h2bbff1b_0	1.9 MB
sqlite-3.40.1	h2bbff1b_0	889 KB

statsmodels-0.13.5	py39h080aedc_0	9.6 MB
sympy-1.11.1	py39haa95532_0	11.7 MB
tabulate-0.8.10	py39haa95532_0	62 KB
tbb-2021.6.0	h59b6b97_1	148 KB
tbb4py-2021.6.0	py39h59b6b97_1	68 KB
tenacity-8.0.1	py39haa95532_1	34 KB
terminado-0.17.1	py39haa95532_0	32 KB
testpath-0.6.0	py39haa95532_0	85 KB
tinycss2-1.2.1	py39haa95532_0	40 KB
tk-8.6.12	h2bbff1b_0	3.1 MB
tlextract-3.2.0	pyhd3eb1b0_0	81 KB
tomli-2.0.1	py39haa95532_0	25 KB
tomlkit-0.11.1	py39haa95532_0	72 KB
toolz-0.12.0	py39haa95532_0	106 KB
tornado-6.2	py39h2bbff1b_0	609 KB
tqdm-4.64.1	py39haa95532_0	143 KB
traitlets-5.7.1	py39haa95532_0	205 KB
twisted-22.2.0	py39h2bbff1b_1	4.2 MB
twisted-iocpsupport-1.0.2	py39h2bbff1b_0	46 KB
typing-extensions-4.4.0	py39haa95532_0	9 KB
tzdata-2022g	h04d1e81_0	114 KB
ujson-5.4.0	py39hd77b12b_0	44 KB
urllib3-1.26.14	py39haa95532_0	193 KB
w3lib-1.21.0	pyhd3eb1b0_0	22 KB
watchdog-2.1.6	py39haa95532_0	110 KB
websocket-client-0.58.0	py39haa95532_4	69 KB
werkzeug-2.2.2	py39haa95532_0	340 KB
whatthepatch-1.0.2	py39haa95532_0	23 KB
wheel-0.37.1	pyhd3eb1b0_0	33 KB
widgetsnbextension-3.5.2	py39haa95532_0	646 KB
wrapt-1.14.1	py39h2bbff1b_0	49 KB
xarray-2022.11.0	py39haa95532_0	1.6 MB
xlswriter-3.0.3	pyhd3eb1b0_0	113 KB
xlwings-0.27.15	py39haa95532_0	1.1 MB
xz-5.2.10	h8cc25b3_1	520 KB
zeromq-4.3.4	hd77b12b_0	4.2 MB
zict-2.1.0	py39haa95532_0	20 KB
zipp-3.11.0	py39haa95532_0	20 KB
zlib-1.2.13	h8cc25b3_0	113 KB
zstandard-0.18.0	py39h2bbff1b_0	310 KB
zstd-1.5.2	h19a0ad4_0	509 KB

Total:		548.3 MB

The following NEW packages will be INSTALLED:

argon2-cffi-bindings	pkgs/main/win-64::argon2-cffi-bindings-21.2.0-py39h2bbff1b_0
automat	pkgs/main/noarch::automat-20.2.0-py_0
boto3	pkgs/main/win-64::boto3-1.24.28-py39haa95532_0
botocore	pkgs/main/win-64::botocore-1.27.59-py39haa95532_0
brtli-bin	pkgs/main/win-64::brtli-bin-1.0.9-h2bbff1b_7
colorcet	pkgs/main/win-64::colorcet-3.0.1-py39haa95532_0
comm	pkgs/main/win-64::comm-0.1.2-py39haa95532_0
conda-package-streaming	pkgs/main/win-64::conda-package-streaming-0.7.0-py39haa95532_0
constantly	pkgs/main/noarch::constantly-15.1.0-py2b92418_0
contourpy	pkgs/main/win-64::contourpy-1.0.5-py39h59b6b97_0
cssselect	pkgs/main/noarch::cssselect-1.1.0-pyhd3eb1b0_0
datashader	pkgs/main/win-64::datashader-0.14.3-py39haa95532_0
datashape	pkgs/main/win-64::datashape-0.5.4-py39haa95532_1
dill	pkgs/main/win-64::dill-0.3.6-py39haa95532_0

fftw	pkgs/main/win-64::fftw-3.3.9-h2bbff1b_1
gensim	pkgs/main/win-64::gensim-4.3.0-py39hd77b12b_0
glib	pkgs/main/win-64::glib-2.69.1-h5dc1a3c_2
gst-plugins-base	pkgs/main/win-64::gst-plugins-base-1.18.5-h9e645db_0
gstreamer	pkgs/main/win-64::gstreamer-1.18.5-hd78058f_0
holoviews	pkgs/main/win-64::holoviews-1.15.3-py39haa95532_0
hvplot	pkgs/main/win-64::hvplot-0.8.2-py39haa95532_0
hyperlink	pkgs/main/noarch::hyperlink-21.0.0-pyhd3eb1b0_0
incremental	pkgs/main/noarch::incremental-21.3.0-pyhd3eb1b0_0
intake	pkgs/main/win-64::intake-0.6.6-py39haa95532_0
itemadapter	pkgs/main/noarch::itemadapter-0.3.0-pyhd3eb1b0_0
itemloaders	pkgs/main/noarch::itemloaders-1.0.4-pyhd3eb1b0_1
jellyfish	pkgs/main/win-64::jellyfish-0.9.0-py39h2bbff1b_0
jmespath	pkgs/main/noarch::jmespath-0.10.0-pyhd3eb1b0_0
jq	pkgs/main/win-64::jq-1.6-haa95532_1
libbrotlicommon	pkgs/main/win-64::libbrotlicommon-1.0.9-h2bbff1b_7
libbrotlidec	pkgs/main/win-64::libbrotlidec-1.0.9-h2bbff1b_7
libbrotlienc	pkgs/main/win-64::libbrotlienc-1.0.9-h2bbff1b_7
libclang	pkgs/main/win-64::libclang-12.0.0-default_h627e005_2
libffi	pkgs/main/win-64::libffi-3.4.2-hd77b12b_6
libogg	pkgs/main/win-64::libogg-1.3.5-h2bbff1b_1
libsodium	pkgs/main/win-64::libsodium-1.0.18-h62dcd97_0
libvorbis	pkgs/main/win-64::libvorbis-1.3.7-he774522_0
libwebp-base	pkgs/main/win-64::libwebp-base-1.2.4-h2bbff1b_0
lz4	pkgs/main/win-64::lz4-3.1.3-py39h2bbff1b_0
m2-msys2-runtime	pkgs/msys2/win-64::m2-msys2-runtime-2.5.0.17080.65c939c-3
m2-patch	pkgs/msys2/win-64::m2-patch-2.7.5-2
markdown	pkgs/main/win-64::markdown-3.4.1-py39haa95532_0
notebook-shim	pkgs/main/win-64::notebook-shim-0.2.2-py39haa95532_0
panel	pkgs/main/win-64::panel-0.14.2-py39haa95532_0
param	pkgs/main/win-64::param-1.12.3-py39haa95532_0
parsel	pkgs/main/win-64::parsel-1.6.0-py39haa95532_0
pathlib	pkgs/main/noarch::pathlib-1.0.1-pyhd3eb1b0_1
pcre	pkgs/main/win-64::pcre-8.45-hd77b12b_0
platformdirs	pkgs/main/win-64::platformdirs-2.5.2-py39haa95532_0
plotly	pkgs/main/win-64::plotly-5.9.0-py39haa95532_0
protego	pkgs/main/noarch::protego-0.1.16-py_0
pyasn1	pkgs/main/noarch::pyasn1-0.4.8-pyhd3eb1b0_0
pyasn1-modules	pkgs/main/noarch::pyasn1-modules-0.2.8-py_0
pyct	pkgs/main/win-64::pyct-0.5.0-py39haa95532_0
pydispatcher	pkgs/main/win-64::pydispatcher-2.0.5-py39haa95532_2
pyhamcrest	pkgs/main/noarch::pyhamcrest-2.0.2-pyhd3eb1b0_2
pyqt5-sip	pkgs/main/win-64::pyqt5-sip-12.11.0-py39hd77b12b_0
pyqtwebengine	pkgs/main/win-64::pyqtwebengine-5.15.7-py39hd77b12b_0
python-fastjsonsc~	pkgs/main/win-64::python-fastjsonschema-2.16.2-py39haa95532_0
python-snappy	pkgs/main/win-64::python-snappy-0.6.1-py39hd77b12b_0
pyviz_comms	pkgs/main/noarch::pyviz_comms-2.0.2-pyhd3eb1b0_0
qt-main	pkgs/main/win-64::qt-main-5.15.2-he8e5bd7_7
qt-webengine	pkgs/main/win-64::qt-webengine-5.15.9-hb9a9bb5_5
qtwebkit	pkgs/main/win-64::qtwebkit-5.212-h3ad3cdb_4
queuelib	pkgs/main/win-64::queuelib-1.5.0-py39haa95532_0
requests-file	pkgs/main/noarch::requests-file-1.5.1-pyhd3eb1b0_0
ruamel.yaml	pkgs/main/win-64::ruamel.yaml-0.17.21-py39h2bbff1b_0
ruamel.yaml.clib	pkgs/main/win-64::ruamel.yaml.clib-0.2.6-py39h2bbff1b_1
s3transfer	pkgs/main/win-64::s3transfer-0.6.0-py39haa95532_0
scrapy	pkgs/main/win-64::scrapy-2.6.2-py39haa95532_0
service_identity	pkgs/main/noarch::service_identity-18.1.0-pyhd3eb1b0_1
smart_open	pkgs/main/win-64::smart_open-5.2.1-py39haa95532_0
tabulate	pkgs/main/win-64::tabulate-0.8.10-py39haa95532_0
tenacity	pkgs/main/win-64::tenacity-8.0.1-py39haa95532_1

```

tinycss2          pkgs/main/win-64::tinycss2-1.2.1-py39haa95532_0
tldextract        pkgs/main/noarch::tldextract-3.2.0-pyhd3eb1b0_0
tomli             pkgs/main/win-64::tomli-2.0.1-py39haa95532_0
tomlkit           pkgs/main/win-64::tomlkit-0.11.1-py39haa95532_0
twisted           pkgs/main/win-64::twisted-22.2.0-py39h2bbff1b_1
twisted-iocpsupp~ pkgs/main/win-64::twisted-iocpsupport-1.0.2-py39h2bbff1b_0
typing-extensions pkgs/main/win-64::typing-extensions-4.4.0-py39haa95532_0
w3lib             pkgs/main/noarch::w3lib-1.21.0-pyhd3eb1b0_0
websocket-client  pkgs/main/win-64::websocket-client-0.58.0-py39haa95532_4
whatthepatch     pkgs/main/win-64::whatthepatch-1.0.2-py39haa95532_0
xarray           pkgs/main/win-64::xarray-2022.11.0-py39haa95532_0
zeromq           pkgs/main/win-64::zeromq-4.3.4-hd77b12b_0
zstandard        pkgs/main/win-64::zstandard-0.18.0-py39h2bbff1b_0

```

The following packages will be REMOVED:

```

anaconda-project-0.10.1-pyhd3eb1b0_0
argh-0.26.2-py39haa95532_0
asn1crypto-1.4.0-py_0
async_generator-1.10-pyhd3eb1b0_0
backports.shutil_get_terminal_size-1.0.0-pyhd3eb1b0_3
boto-2.49.0-py39haa95532_0
cached-property-1.5.2-py_0
conda-pack-0.6.0-pyhd3eb1b0_0
contextlib2-0.6.0.post1-pyhd3eb1b0_0
dataclasses-0.8-pyh6d0b6a4_7
fastcache-1.1.0-py39h196d8e1_0
get_terminal_size-1.0.0-h38e98db_0
gevent-21.8.0-py39h2bbff1b_1
html5lib-1.1-pyhd3eb1b0_0
krb5-1.19.2-h5b6d351_0
m2w64-gcc-libgfortran-5.3.0-6
m2w64-gcc-libs-5.3.0-7
m2w64-gcc-libs-core-5.3.0-7
m2w64-gmp-6.1.0-2
more-itertools-8.10.0-pyhd3eb1b0_0
path-16.0.0-py39haa95532_0
path.py-12.5.0-hd3eb1b0_0
pathlib2-2.3.6-py39haa95532_2
pyreadline-2.1-py39haa95532_1
simplegeneric-0.8.1-py39haa95532_2
singledispatch-3.7.0-pyhd3eb1b0_1001
sphinxcontrib-1.0-py39haa95532_1
sphinxcontrib-websupport-1.2.4-py_0
tinycss-0.4-pyhd3eb1b0_1002
typed-ast-1.4.3-py39h2bbff1b_1
unicodedcsv-0.14.1-py39haa95532_0
whichcraft-0.6.1-pyhd3eb1b0_0
xlwt-1.3.0-py39haa95532_0
xmltodict-0.12.0-pyhd3eb1b0_0
zope.event-4.5.0-py39haa95532_0

```

The following packages will be UPDATED:

```

_anaconda_depends      2021.11-py39_0 --> 2022.10-py39_2
anaconda-client        1.9.0-py39haa95532_0 --> 1.11.0-py39haa95532_0
anyio                  2.2.0-py39haa95532_2 --> 3.5.0-py39haa95532_0
argon2-cffi           pkgs/main/win-64::argon2-cffi-20.1.0-~ --> pkgs/main/noarch::arg
on2-cffi-21.3.0-pyhd3eb1b0_0
arrow                  0.13.1-py39haa95532_0 --> 1.2.3-py39haa95532_0

```

```

astroid 2.6.6-py39haa95532_0 --> 2.11.7-py39haa95532_0
astropy 4.3.1-py39hc7d831d_0 --> 5.1-py39h080aedic_0
attrs pkgs/main/noarch::attrs-21.2.0-pyhd3e~ --> pkgs/main/win-64::att
rs-22.1.0-py39haa95532_0
autopep8 1.5.7-pyhd3eb1b0_0 --> 1.6.0-pyhd3eb1b0_1
babel pkgs/main/noarch::babel-2.9.1-pyhd3eb~ --> pkgs/main/win-64::bab
el-2.11.0-py39haa95532_0
backports 1.0-pyhd3eb1b0_2 --> 1.1-pyhd3eb1b0_0
bcrypt 3.2.0-py39h196d8e1_0 --> 3.2.0-py39h2bbff1b_1
beautifulsoup4 pkgs/main/noarch::beautifulsoup4-4.10~ --> pkgs/main/win-64::bea
utifulsoup4-4.11.1-py39haa95532_0
bitarray 2.3.0-py39h2bbff1b_1 --> 2.5.1-py39h2bbff1b_0
bkcharts 0.2-py39haa95532_0 --> 0.2-py39haa95532_1
black pkgs/main/noarch::black-19.10b0-py_0 --> pkgs/main/win-64::bla
ck-22.6.0-py39haa95532_0
bleach 4.0.0-pyhd3eb1b0_0 --> 4.1.0-pyhd3eb1b0_0
blosc 1.21.0-h19a0ad4_0 --> 1.21.3-h6c2663c_0
bokeh 2.4.1-py39haa95532_0 --> 2.4.3-py39haa95532_0
bottleneck 1.3.2-py39h7cc1a96_1 --> 1.3.5-py39h080aedic_0
brotli 1.0.9-ha925a31_2 --> 1.0.9-h2bbff1b_7
ca-certificates 2022.10.11-haa95532_0 --> 2023.01.10-haa95532_0
cffi 1.14.6-py39h2bbff1b_0 --> 1.15.1-py39h2bbff1b_3
cfitsio 3.470-he774522_6 --> 3.470-h2bbff1b_7
click pkgs/main/noarch::click-8.0.3-pyhd3eb~ --> pkgs/main/win-64::cli
ck-8.0.4-py39haa95532_0
colorama pkgs/main/noarch::colorama-0.4.4-pyhd~ --> pkgs/main/win-64::col
orama-0.4.6-py39haa95532_0
conda 4.12.0-py39haa95532_0 --> 23.1.0-py39haa95532_0
conda-build 3.21.6-py39haa95532_0 --> 3.23.3-py39haa95532_0
conda-content-tru~ pkgs/main/noarch::conda-content-trust~ --> pkgs/main/win-64::con
da-content-trust-0.1.3-py39haa95532_0
conda-package-han~ 1.7.3-py39h8cc25b3_1 --> 2.0.2-py39haa95532_0
conda-repo-cli pkgs/main/noarch::conda-repo-cli-1.0.~ --> pkgs/main/win-64::con
da-repo-cli-1.0.27-py39haa95532_0
conda-token 0.3.0-pyhd3eb1b0_0 --> 0.4.0-pyhd3eb1b0_0
cookiecutter 1.7.2-pyhd3eb1b0_0 --> 1.7.3-pyhd3eb1b0_0
cryptography 3.4.8-py39h71e12ea_0 --> 38.0.4-py39h21b164f_0
curl 7.78.0-h86230a5_0 --> 7.87.0-h2bbff1b_0
cyclor pkgs/main/win-64::cyclor-0.10.0-py39h~ --> pkgs/main/noarch::cyc
ler-0.11.0-pyhd3eb1b0_0
cython 0.29.24-py39h604cdb4_0 --> 0.29.32-py39hd77b12b_
0
cytoolz 0.11.0-py39h2bbff1b_0 --> 0.12.0-py39h2bbff1b_0
daal4py 2021.3.0-py39h757b272_0 --> 2021.6.0-py39h757b272
_1
dal 2021.3.0-haa95532_564 --> 2021.6.0-h59b6b97_874
dask pkgs/main/noarch::dask-2021.10.0-pyhd~ --> pkgs/main/win-64::das
k-2022.5.0-py39haa95532_0
dask-core pkgs/main/noarch::dask-core-2021.10.0~ --> pkgs/main/win-64::das
k-core-2022.5.0-py39haa95532_0
debugpy 1.4.1-py39hd77b12b_0 --> 1.5.1-py39hd77b12b_0
decorator 5.1.0-pyhd3eb1b0_0 --> 5.1.1-pyhd3eb1b0_0
distributed 2021.10.0-py39haa95532_0 --> 2022.5.0-py39haa95532
_0
docutils 0.17.1-py39haa95532_1 --> 0.18.1-py39haa95532_3
entrypoints 0.3-py39haa95532_0 --> 0.4-py39haa95532_0
filelock pkgs/main/noarch::filelock-3.3.1-pyhd~ --> pkgs/main/win-64::fil
elock-3.9.0-py39haa95532_0
flake8 3.9.2-pyhd3eb1b0_0 --> 4.0.1-pyhd3eb1b0_1
flask pkgs/main/noarch::flask-1.1.2-pyhd3eb~ --> pkgs/main/win-64::fla

```



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sk-2.2.2-py39haa95532_0
  freetype                2.10.4-hd328e21_0 --> 2.12.1-ha860e81_0
  giflib                   5.2.1-h62dcd97_0 --> 5.2.1-h8cc25b3_1
  greenlet                 1.1.1-py39hd77b12b_0 --> 2.0.1-py39hd77b12b_0
  h5py                     3.2.1-py39h3de5c98_0 --> 3.7.0-py39h3de5c98_0
  hdf5                     1.10.6-h7ebc959_0 --> 1.10.6-h1756f20_1
  icc_rt                   2019.0.0-h0cc432a_1 --> 2022.1.0-h6049295_2
  idna                     pkgs/main/noarch::idna-3.2-pyhd3eb1b0~ --> pkgs/main/win-64::idn
a-3.4-py39haa95532_0
  imagecodecs              2021.8.26-py39ha1f97ea_0 --> 2021.8.26-py39hc0a7fa
f_1
  imageio                  pkgs/main/noarch::imageio-2.9.0-pyhd3~ --> pkgs/main/win-64::ima
geio-2.19.3-py39haa95532_0
  imagesize                pkgs/main/noarch::imagesize-1.2.0-pyh~ --> pkgs/main/win-64::ima
gesize-1.4.1-py39haa95532_0
  importlib-metadata       4.8.1-py39haa95532_0 --> 4.11.3-py39haa95532_0
  importlib_metadata       4.8.1-hd3eb1b0_0 --> 4.11.3-hd3eb1b0_0
  ipykernel                6.4.1-py39haa95532_1 --> 6.19.2-py39hd4e2768_0
  ipython                  7.29.0-py39hd4e2768_0 --> 7.31.1-py39haa95532_1
  jedi                     0.18.0-py39haa95532_1 --> 0.18.1-py39haa95532_1
  jinja2                   pkgs/main/noarch::jinja2-2.11.3-pyhd3~ --> pkgs/main/win-64::jin
ja2-3.1.2-py39haa95532_0
  jinja2-time              0.2.0-pyhd3eb1b0_2 --> 0.2.0-pyhd3eb1b0_3
  joblib                   pkgs/main/noarch::joblib-1.1.0-pyhd3e~ --> pkgs/main/win-64::job
lib-1.1.1-py39haa95532_0
  jpeg                     9d-h2bbff1b_0 --> 9e-h2bbff1b_0
  jsonschema               pkgs/main/noarch::jsonschema-3.2.0-py~ --> pkgs/main/win-64::jso
nschema-4.16.0-py39haa95532_0
  jupyter                  1.0.0-py39haa95532_7 --> 1.0.0-py39haa95532_8
  jupyter_client           pkgs/main/noarch::jupyter_client-6.1.~ --> pkgs/main/win-64::jup
yter_client-7.4.8-py39haa95532_0
  jupyter_console         pkgs/main/noarch::jupyter_console-6.4~ --> pkgs/main/win-64::jup
yter_console-6.4.4-py39haa95532_0
  jupyter_core             4.8.1-py39haa95532_0 --> 5.1.1-py39haa95532_0
  jupyter_server           1.4.1-py39haa95532_0 --> 1.23.4-py39haa95532_0
  jupyterlab              pkgs/main/noarch::jupyterlab-3.2.1-py~ --> pkgs/main/win-64::jup
yterlab-3.5.3-py39haa95532_0
  jupyterlab_server       pkgs/main/noarch::jupyterlab_server-2~ --> pkgs/main/win-64::jup
yterlab_server-2.16.5-py39haa95532_0
  keyring                  23.1.0-py39haa95532_0 --> 23.4.0-py39haa95532_0
  kiwisolver               1.3.1-py39hd77b12b_0 --> 1.4.4-py39hd77b12b_0
  libarchive               3.4.2-h5e25573_0 --> 3.6.2-hebabd0d_0
  libcurl                  7.78.0-h86230a5_0 --> 7.87.0-h86230a5_0
  libiconv                 1.15-h1df5818_7 --> 1.16-h2bbff1b_2
  liblief                  0.10.1-hd77b12b_1 --> 0.12.3-hd77b12b_0
  libssh2                  1.9.0-h7a1dbc1_1 --> 1.10.0-hcd4344a_0
  libtiff                  4.2.0-hd0e1b90_0 --> 4.5.0-h6c2663c_1
  libwebp                  1.2.0-h2bbff1b_0 --> 1.2.4-h2bbff1b_0
  libxml2                  2.9.12-h0ad7f3c_0 --> 2.9.14-h0ad7f3c_0
  libxslt                  1.1.34-he774522_0 --> 1.1.35-h2bbff1b_0
  llvmlite                 0.37.0-py39h23ce68f_1 --> 0.39.1-py39h23ce68f_0
  locket                   0.2.1-py39haa95532_1 --> 1.0.0-py39haa95532_0
  lxml                     4.6.3-py39h9b66d53_0 --> 4.9.1-py39h1985fb9_0
  lz4-c                    1.9.3-h2bbff1b_1 --> 1.9.4-h2bbff1b_0
  markupsafe               1.1.1-py39h2bbff1b_0 --> 2.1.1-py39h2bbff1b_0
  matplotlib               3.4.3-py39haa95532_0 --> 3.6.2-py39haa95532_0
  matplotlib-base          3.4.3-py39h49ac443_0 --> 3.6.2-py39h1094b8e_0
  matplotlib-inline       pkgs/main/noarch::matplotlib-inline-0~ --> pkgs/main/win-64::mat
plotlib-inline-0.1.6-py39haa95532_0
  mccabe                   pkgs/main/win-64::mccabe-0.6.1-py39ha~ --> pkgs/main/noarch::mcc

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abe-0.7.0-pyhd3eb1b0_0
  menuinst 1.4.18-py39h59b6b97_0 --> 1.4.19-py39h59b6b97_0
  msgpack-python 1.0.2-py39h59b6b97_1 --> 1.0.3-py39h59b6b97_0
  mypy_extensions 0.4.3-py39haa95532_0 --> 0.4.3-py39haa95532_1
  navigator-updater 0.2.1-py39haa95532_0 --> 0.3.0-py39haa95532_0
  nbclassic pkgs/main/noarch::nbclassic-0.2.6-pyh~ --> pkgs/main/win-64::nbc
lassic-0.4.8-py39haa95532_0
  nbclient pkgs/main/noarch::nbclient-0.5.3-pyhd~ --> pkgs/main/win-64::nbc
lient-0.5.13-py39haa95532_0
  nbconvert 6.1.0-py39haa95532_0 --> 6.5.4-py39haa95532_0
  nbformat pkgs/main/noarch::nbformat-5.1.3-pyhd~ --> pkgs/main/win-64::nbf
ormat-5.7.0-py39haa95532_0
  nest-asyncio pkgs/main/noarch::nest-asyncio-1.5.1-~ --> pkgs/main/win-64::nes
t-asyncio-1.5.6-py39haa95532_0
  networkx pkgs/main/noarch::networkx-2.6.3-pyhd~ --> pkgs/main/win-64::net
workx-2.8.4-py39haa95532_0
  nltk 3.6.5-pyhd3eb1b0_0 --> 3.7-pyhd3eb1b0_0
  nose 1.3.7-pyhd3eb1b0_1006 --> 1.3.7-pyhd3eb1b0_1008
  notebook 6.4.5-py39haa95532_0 --> 6.5.2-py39haa95532_0
  numba 0.54.1-py39hf11a4ad_0 --> 0.56.4-py39hf11a4ad_0
  numexpr 2.7.3-py39hb80d3ca_1 --> 2.8.4-py39h5b0cc5e_0
  numpy 1.20.3-py39ha4e8547_0 --> 1.23.5-py39h3b20f71_0
  numpy-base 1.20.3-py39hc2deb75_0 --> 1.23.5-py39h4da318b_0
  numpydoc pkgs/main/noarch::numpydoc-1.1.0-pyhd~ --> pkgs/main/win-64::num
pydoc-1.5.0-py39haa95532_0
  openpyxl pkgs/main/noarch::openpyxl-3.0.9-pyhd~ --> pkgs/main/win-64::ope
npyxl-3.0.10-py39h2bbff1b_0
  packaging pkgs/main/noarch::packaging-21.0-pyhd~ --> pkgs/main/win-64::pac
kaging-22.0-py39haa95532_0
  pandas 1.3.4-py39h6214cd6_0 --> 1.5.2-py39hf11a4ad_0
  pandocfilters pkgs/main/win-64::pandocfilters-1.4.3~ --> pkgs/main/noarch::pan
docfilters-1.5.0-pyhd3eb1b0_0
  paramiko 2.7.2-py_0 --> 2.8.1-pyhd3eb1b0_0
  parso 0.8.2-pyhd3eb1b0_0 --> 0.8.3-pyhd3eb1b0_0
  partd 1.2.0-pyhd3eb1b0_0 --> 1.2.0-pyhd3eb1b0_1
  pathspec pkgs/main/noarch::pathspec-0.7.0-py_0 --> pkgs/main/win-64::pat
hspec-0.10.3-py39haa95532_0
  patsy 0.5.2-py39haa95532_0 --> 0.5.3-py39haa95532_0
  pep8 1.7.1-py39haa95532_0 --> 1.7.1-py39haa95532_1
  pillow 8.4.0-py39hd45dc43_0 --> 9.3.0-py39hd77b12b_2
  pip 21.2.4-py39haa95532_0 --> 22.3.1-py39haa95532_0
  pkginfo 1.7.1-py39haa95532_0 --> 1.8.3-py39haa95532_0
  pluggy 0.13.1-py39haa95532_0 --> 1.0.0-py39haa95532_1
  prometheus_client pkgs/main/noarch::prometheus_client-0~ --> pkgs/main/win-64::pro
metheus_client-0.14.1-py39haa95532_0
  prompt-toolkit pkgs/main/noarch::prompt-toolkit-3.0.~ --> pkgs/main/win-64::pro
mpt-toolkit-3.0.36-py39haa95532_0
  prompt_toolkit 3.0.20-hd3eb1b0_0 --> 3.0.36-hd3eb1b0_0
  psutil 5.8.0-py39h2bbff1b_1 --> 5.9.0-py39h2bbff1b_0
  py 1.10.0-pyhd3eb1b0_0 --> 1.11.0-pyhd3eb1b0_0
  py-lief 0.10.1-py39hd77b12b_1 --> 0.12.3-py39hd77b12b_0
  pycodestyle 2.7.0-pyhd3eb1b0_0 --> 2.8.0-pyhd3eb1b0_0
  pycosat 0.6.3-py39h2bbff1b_0 --> 0.6.4-py39h2bbff1b_0
  pycparser 2.20-py_2 --> 2.21-pyhd3eb1b0_0
  pycurl 7.44.1-py39hcd4344a_1 --> 7.45.1-py39hcd4344a_0
  pydocstyle pkgs/main/noarch::pydocstyle-6.1.1-py~ --> pkgs/main/win-64::pyd
ocstyle-6.3.0-py39haa95532_0
  pyflakes 2.3.1-pyhd3eb1b0_0 --> 2.4.0-pyhd3eb1b0_0
  pygments 2.10.0-pyhd3eb1b0_0 --> 2.11.2-pyhd3eb1b0_0
  pyjwt 2.1.0-py39haa95532_0 --> 2.4.0-py39haa95532_0

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pylint                2.9.6-py39haa95532_1 --> 2.14.5-py39haa95532_0
pynacl                1.4.0-py39hbd8134f_1 --> 1.5.0-py39h8cc25b3_0
pyodbc                4.0.31-py39hd77b12b_0 --> 4.0.34-py39hd77b12b_0
pyopenssl            21.0.0-pyhd3eb1b0_1 --> 22.0.0-pyhd3eb1b0_0
pyparsing            pkgs/main/noarch::pyparsing-3.0.4-pyh~ --> pkgs/main/win-64::pyp
arsing-3.0.9-py39haa95532_0
pyqt                 5.9.2-py39hd77b12b_6 --> 5.15.7-py39hd77b12b_0
pytables             3.6.1-py39h56d22b6_1 --> 3.7.0-py39h388bc9b_1
pytest              6.2.4-py39haa95532_2 --> 7.1.2-py39haa95532_0
python               3.9.7-h6244533_1 --> 3.9.16-h6244533_0
python-lsp-black    pkgs/main/noarch::python-lsp-black-1.~ --> pkgs/main/win-64::pyt
hon-lsp-black-1.2.1-py39haa95532_0
python-lsp-server    pkgs/main/noarch::python-lsp-server-1~ --> pkgs/main/win-64::pyt
hon-lsp-server-1.5.0-py39haa95532_0
pytz                 pkgs/main/noarch::pytz-2021.3-pyhd3eb~ --> pkgs/main/win-64::pyt
z-2022.7-py39haa95532_0
pywavelets           1.1.1-py39h080aedc_4 --> 1.4.1-py39h2bbff1b_0
pywin32              228-py39he774522_0 --> 305-py39h2bbff1b_0
pywinpty             0.5.7-py39haa95532_0 --> 2.0.2-py39h5da7b33_0
pyzmq                22.2.1-py39hd77b12b_1 --> 23.2.0-py39hd77b12b_0
qstylizer            pkgs/main/noarch::qstylizer-0.1.10-py~ --> pkgs/main/win-64::qst
ylizer-0.2.2-py39haa95532_0
qt                   5.9.7-vc14h73c81de_0 --> 5.15.7-haa95532_0
qtawesome            pkgs/main/noarch::qtawesome-1.0.2-pyh~ --> pkgs/main/win-64::qta
wesome-1.2.2-py39haa95532_0
qtconsole            pkgs/main/noarch::qtconsole-5.1.1-pyh~ --> pkgs/main/win-64::qtc
onsole-5.3.2-py39haa95532_0
qtpy                 pkgs/main/noarch::qtpy-1.10.0-pyhd3eb~ --> pkgs/main/win-64::qtp
y-2.2.0-py39haa95532_0
regex                2021.8.3-py39h2bbff1b_0 --> 2022.7.9-py39h2bbff1b
_0
requests            pkgs/main/noarch::requests-2.26.0-pyh~ --> pkgs/main/win-64::req
uests-2.28.1-py39haa95532_0
rope                  0.19.0-pyhd3eb1b0_0 --> 0.22.0-pyhd3eb1b0_0
rtree                 0.9.7-py39h2eaa2aa_1 --> 1.0.1-py39h2eaa2aa_0
ruamel_yaml          0.15.100-py39h2bbff1b_0 --> 0.17.21-py39h2bbff1b_
0
scikit-image         0.18.3-py39hf11a4ad_0 --> 0.19.3-py39hd77b12b_1
scikit-learn         0.24.2-py39hf11a4ad_1 --> 1.0.2-py39hf11a4ad_1
scikit-learn-inte~  2021.3.0-py39haa95532_0 --> 2021.6.0-py39haa95532
_0
scipy                 1.7.1-py39hbe87c03_2 --> 1.9.3-py39he11b74f_0
seaborn              pkgs/main/noarch::seaborn-0.11.2-pyhd~ --> pkgs/main/win-64::sea
born-0.12.2-py39haa95532_0
setuptools           58.0.4-py39haa95532_0 --> 65.6.3-py39haa95532_0
sip                   4.19.13-py39hd77b12b_0 --> 6.6.2-py39hd77b12b_0
six                   1.16.0-pyhd3eb1b0_0 --> 1.16.0-pyhd3eb1b0_1
snappy               1.1.8-h33f27b4_0 --> 1.1.9-h6c2663c_0
snowballstemmer      2.1.0-pyhd3eb1b0_0 --> 2.2.0-pyhd3eb1b0_0
soupsieve            pkgs/main/noarch::soupsieve-2.2.1-pyh~ --> pkgs/main/win-64::sou
psieve-2.3.2.post1-py39haa95532_0
sphinx               pkgs/main/noarch::sphinx-4.2.0-pyhd3e~ --> pkgs/main/win-64::sph
inx-5.0.2-py39haa95532_0
spyder                5.1.5-py39haa95532_1 --> 5.3.3-py39haa95532_0
spyder-kernels       2.1.3-py39haa95532_0 --> 2.3.3-py39haa95532_0
sqlalchemy           1.4.22-py39h2bbff1b_0 --> 1.4.39-py39h2bbff1b_0
sqlite               3.36.0-h2bbff1b_0 --> 3.40.1-h2bbff1b_0
statsmodels          0.12.2-py39h2bbff1b_0 --> 0.13.5-py39h080aedc_0
sympy                1.9-py39haa95532_0 --> 1.11.1-py39haa95532_0
tbb                  2021.4.0-h59b6b97_0 --> 2021.6.0-h59b6b97_1

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tbb4py                                2021.4.0-py39h59b6b97_0 --> 2021.6.0-py39h59b6b97
_1
terminado                             0.9.4-py39haa95532_0 --> 0.17.1-py39haa95532_0
testpath                             pkgs/main/noarch::testpath-0.5.0-pyhd~ --> pkgs/main/win-64::tes
tpath-0.6.0-py39haa95532_0
tk                                    8.6.11-h2bbff1b_0 --> 8.6.12-h2bbff1b_0
toolz                                 pkgs/main/noarch::toolz-0.11.1-pyhd3e~ --> pkgs/main/win-64::too
lz-0.12.0-py39haa95532_0
tornado                              6.1-py39h2bbff1b_0 --> 6.2-py39h2bbff1b_0
tqdm                                 pkgs/main/noarch::tqdm-4.62.3-pyhd3eb~ --> pkgs/main/win-64::tqd
m-4.64.1-py39haa95532_0
traitlets                            pkgs/main/noarch::traitlets-5.1.0-pyh~ --> pkgs/main/win-64::tra
itlets-5.7.1-py39haa95532_0
tzdata                               2021e-hda174b7_0 --> 2022g-h04d1e81_0
ujson                                4.0.2-py39hd77b12b_0 --> 5.4.0-py39hd77b12b_0
urllib3                              pkgs/main/noarch::urllib3-1.26.7-pyhd~ --> pkgs/main/win-64::url
lib3-1.26.14-py39haa95532_0
watchdog                             2.1.3-py39haa95532_0 --> 2.1.6-py39haa95532_0
werkzeug                             pkgs/main/noarch::werkzeug-2.0.2-pyhd~ --> pkgs/main/win-64::wer
kzeug-2.2.2-py39haa95532_0
wheel                                0.37.0-pyhd3eb1b0_1 --> 0.37.1-pyhd3eb1b0_0
widgetsnbextension                   3.5.1-py39haa95532_0 --> 3.5.2-py39haa95532_0
wrapt                                1.12.1-py39h196d8e1_1 --> 1.14.1-py39h2bbff1b_0
xlsxwriter                           3.0.1-pyhd3eb1b0_0 --> 3.0.3-pyhd3eb1b0_0
xlwings                              0.24.9-py39haa95532_0 --> 0.27.15-py39haa95532_
0
xz                                    5.2.5-h62dcd97_0 --> 5.2.10-h8cc25b3_1
zict                                 pkgs/main/noarch::zict-2.0.0-pyhd3eb1~ --> pkgs/main/win-64::zic
t-2.1.0-py39haa95532_0
zipp                                 pkgs/main/noarch::zipp-3.6.0-pyhd3eb1~ --> pkgs/main/win-64::zip
p-3.11.0-py39haa95532_0
zlib                                  1.2.11-h62dcd97_4 --> 1.2.13-h8cc25b3_0
zstd                                  1.4.9-h19a0ad4_0 --> 1.5.2-h19a0ad4_0

```

The following packages will be DOWNGRADED:

```

conda-env                            2.6.0-1 --> 2.6.0-haa95532_1

```

Downloading and Extracting Packages

incremental-21.3.0	17 KB		0%
incremental-21.3.0	17 KB	#####1	92%
incremental-21.3.0	17 KB	#####	100%
matplotlib-base-3.6.	6.5 MB		0%
matplotlib-base-3.6.	6.5 MB	1	1%
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matplotlib-base-3.6.	6.5 MB	#####1	92%
matplotlib-base-3.6.	6.5 MB	#####	100%
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flask-2.2.2	165 KB	9	10%
flask-2.2.2	165 KB	###8	39%

flask-2.2.2	165 KB	#####7	68%
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```

Windows 64-bit packages of scikit-learn can be accelerated using scikit-learn-intelex.

More details are available here: <https://intel.github.io/scikit-learn-intelex>

For example:

```

$ conda install scikit-learn-intelex
$ python -m sklearnex my_application.py

```

done

```
In [28]: from sklearn.preprocessing import StandardScaler
```

```
In [30]: df_score[['offense', 'defense']] = preprocessing.StandardScaler().fit_transform(df_score[['offense', 'defense']])
df_score['defense'] = df_score['defense']*(-1)
```

```
In [31]: df_score
```

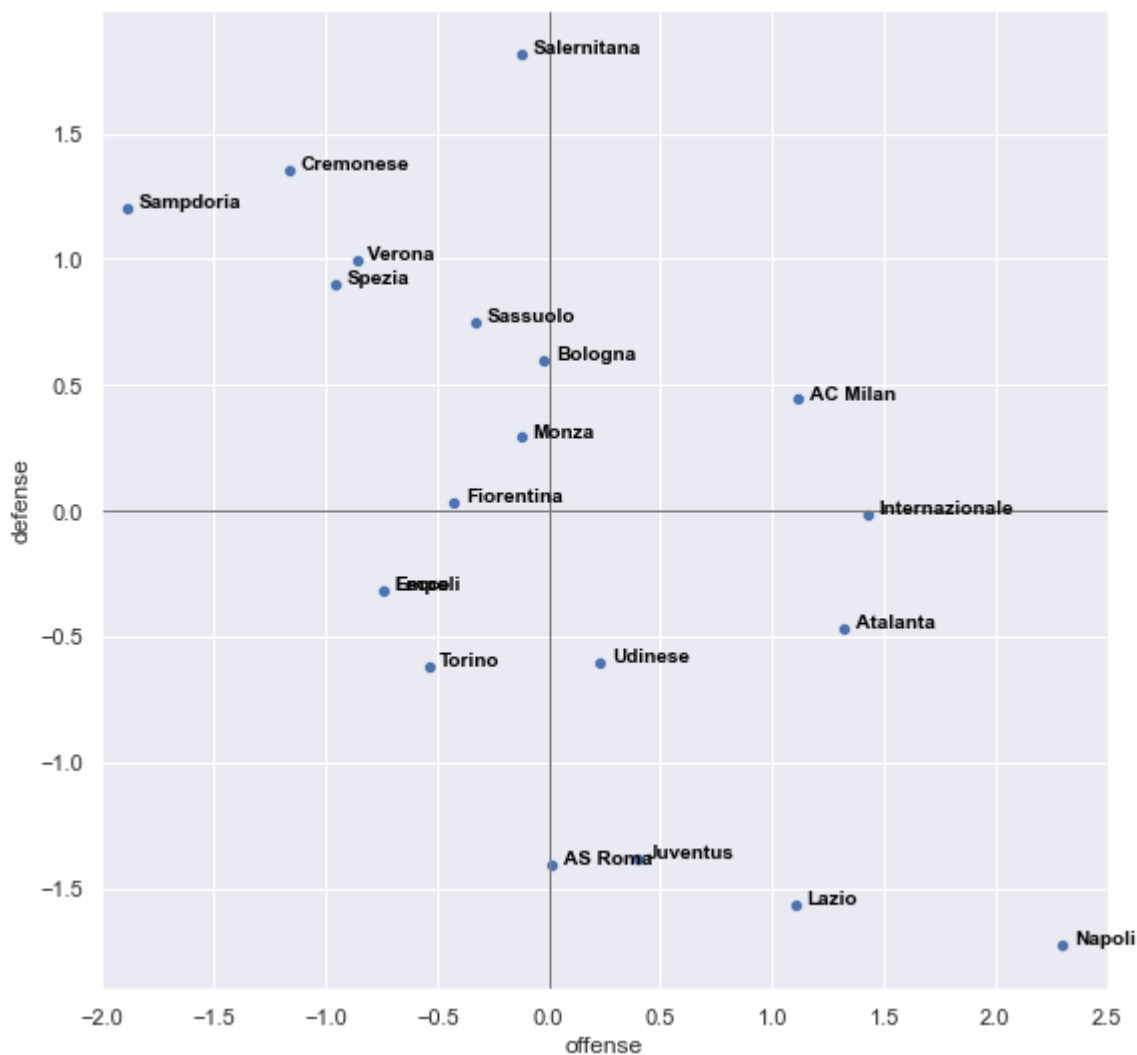
Out[31]:

	team	offense	defense
0	AC Milan	1.117423	0.444821
1	AS Roma	0.011980	-1.401606
2	Atalanta	1.324354	-0.466403
3	Bologna	-0.020693	0.596692
4	Cremonese	-1.158809	1.356045
5	Empoli	-0.744949	-0.314532
6	Fiorentina	-0.423662	0.037168
7	Internazionale	1.427819	-0.010791
8	Juventus	0.393167	-1.377627
9	Lazio	1.101087	-1.561470
10	Lecce	-0.744949	-0.314532
11	Monza	-0.124158	0.292950
12	Napoli	2.299104	-1.721334
13	Salernitana	-0.124158	1.811657
14	Sampdoria	-1.883065	1.204174
15	Sassuolo	-0.331088	0.748562
16	Spezia	-0.951879	0.900433
17	Torino	-0.538019	-0.618273
18	Udinese	0.229801	-0.602287
19	Verona	-0.859305	0.996351

```

In [32]: plt.figure(figsize=(9,9))
sns.set()
ax = sns.scatterplot(x="offense", y="defense", data=df_score)
ax.axhline(y=0, color='grey', linewidth=1)
ax.axvline(x=0, color='grey', linewidth=1)
ax.set_xlim(-2,2.5)
for line in range(0,df_score.shape[0]):
    ax.text(df_score.offense[line]+0.05, df_score.defense[line],
            df_score.team[line], horizontalalignment='left', size='small', color='black')

```



Teams like AC Milan, Internazionale (Inter Milan) and Salernitana seem to have a decent performance but still we are indecisive as to see which team has a good SPI because either team has a good Offense but at the same time its Defence is not up to the mark. Let's analyze on a different league like the Spanish Primera Division.

```
In [33]: df_S = df[df['league']=='Spanish Primera Division']
df_S = df_S[['date', 'team1', 'team2', 'spi1', 'spi2', 'score1', 'score2']]
```

```
In [34]: df_S.head()
```

```
Out[34]:
```

	date	team1	team2	spi1	spi2	score1	score2
2273	8/12/2022	Osasuna	Sevilla FC	63.69	71.45	2.0	1.0
2349	8/13/2022	Celta Vigo	Espanyol	69.06	59.72	2.0	2.0
2365	8/13/2022	Real Valladolid	Villarreal	59.80	77.14	0.0	3.0
2393	8/13/2022	Barcelona	Rayo Vallecano	84.44	63.56	0.0	0.0
2472	8/14/2022	Cadiz	Real Sociedad	62.62	74.77	0.0	1.0

```
In [35]: df_S.shape
```

Out[35]: (380, 7)

```
In [36]: # Select the goal and goal lost for each team, rename the columns and stack them together
df_S1 = df_S[['date', 'team1', 'score1', 'score2']]
df_S2 = df_S[['date', 'team2', 'score2', 'score1']]
df_S1.columns=['date', 'team', 'offense', 'defense']
df_S2.columns=['date', 'team', 'offense', 'defense']
```

```
In [37]: frames = [df_S1, df_S2]
df_S3 = pd.concat(frames)
df_S3.shape
```

Out[37]: (760, 4)

```
In [38]: # Calculate a simple offense and defense index for each team.
df_score2 = df_S3.groupby(['team'], as_index=False).mean()
```

```
In [39]: df_score2
```

```
Out[39]:
```

	team	offense	defense
0	Almeria	1.210526	1.526316
1	Athletic Bilbao	1.388889	1.055556
2	Atletico Madrid	1.473684	0.842105
3	Barcelona	2.055556	0.333333
4	Cadiz	0.736842	1.526316
5	Celta Vigo	0.944444	1.611111
6	Elche	0.631579	2.052632
7	Espanyol	1.210526	1.526316
8	Getafe	0.842105	1.368421
9	Girona FC	1.368421	1.526316
10	Mallorca	0.789474	0.947368
11	Osasuna	0.947368	0.947368
12	Rayo Vallecano	1.333333	1.222222
13	Real Betis	1.111111	0.777778
14	Real Madrid	2.235294	0.941176
15	Real Sociedad	1.555556	1.000000
16	Real Valladolid	0.736842	1.473684
17	Sevilla FC	1.105263	1.368421
18	Valencia	1.388889	1.166667
19	Villarreal	1.166667	0.722222


```
In [40]: df_score2[['offense', 'defense']] = preprocessing.StandardScaler().fit_transform(df_score2[['offense', 'defense']])
df_score2['defense'] = df_score2['defense']*(-1)
```

```
In [41]: df_score2
```

```
Out[41]:
```

	team	offense	defense
0	Almeria	-0.002682	-0.851433
1	Athletic Bilbao	0.435354	0.364836
2	Atletico Madrid	0.643600	0.916313
3	Barcelona	2.072602	2.230790
4	Cadiz	-1.165991	-0.851433
5	Celta Vigo	-0.656146	-1.070513
6	Elche	-1.424504	-2.211238
7	Espanyol	-0.002682	-0.851433
8	Getafe	-0.907478	-0.443492
9	Girona FC	0.385087	-0.851433
10	Mallorca	-1.036734	0.644352
11	Osasuna	-0.648965	0.644352
12	Rayo Vallecano	0.298916	-0.065768
13	Real Betis	-0.246833	1.082511
14	Real Madrid	2.514017	0.660350
15	Real Sociedad	0.844666	0.508371
16	Real Valladolid	-1.165991	-0.715453
17	Sevilla FC	-0.261195	-0.443492
18	Valencia	0.435354	0.077767
19	Villarreal	-0.110396	1.226046

```
In [42]: plt.figure(figsize=(9,9))
sns.set()
ax = sns.scatterplot(x="offense", y="defense", data=df_score2)
ax.axhline(y=0, color='grey', linewidth=1)
ax.axvline(x=0, color='grey', linewidth=1)
ax.set_xlim(-2,2.5)
for line in range(0,df_score2.shape[0]):
    ax.text(df_score2.offense[line]+0.05, df_score2.defense[line],
            df_score2.team[line], horizontalalignment='left', size='small', color='b')
```



Here we can see that Barcelona is the decisive winner in both Offence and Defence. Real Madrid has the best Offence but its defence is not up to the mark. Atletico Madrid is looking at a second spot after Barcelona.

Here shows normalizing data instead of standarizing. It will limit value between 0 and 1. I would minus data with 0.5 to make sure data center at 0.

```
In [43]: df_score2 = df_S3.groupby(['team'], as_index=False).mean()
```

```
In [44]: df_score2[['offense', 'defense']] = preprocessing.MinMaxScaler().fit_transform(df_score2[['offense', 'defense']])
```

Out[44]:

	team	offense	defense
0	Almeria	0.361004	0.693878
1	Athletic Bilbao	0.472222	0.420068
2	Atletico Madrid	0.525097	0.295918
3	Barcelona	0.887924	0.000000
4	Cadiz	0.065637	0.693878
5	Celta Vigo	0.195088	0.743197
6	Elche	0.000000	1.000000
7	Espanyol	0.361004	0.693878
8	Getafe	0.131274	0.602041
9	Girona FC	0.459459	0.693878
10	Mallorca	0.098456	0.357143
11	Osasuna	0.196911	0.357143
12	Rayo Vallecano	0.437580	0.517007
13	Real Betis	0.299013	0.258503
14	Real Madrid	1.000000	0.353541
15	Real Sociedad	0.576148	0.387755
16	Real Valladolid	0.065637	0.663265
17	Sevilla FC	0.295367	0.602041
18	Valencia	0.472222	0.484694
19	Villarreal	0.333655	0.226190

```
In [45]: df_score2['defense'] = df_score2['defense']*(-1)+0.5
df_score2['offense'] = df_score2['offense']-0.5
df_score2
```

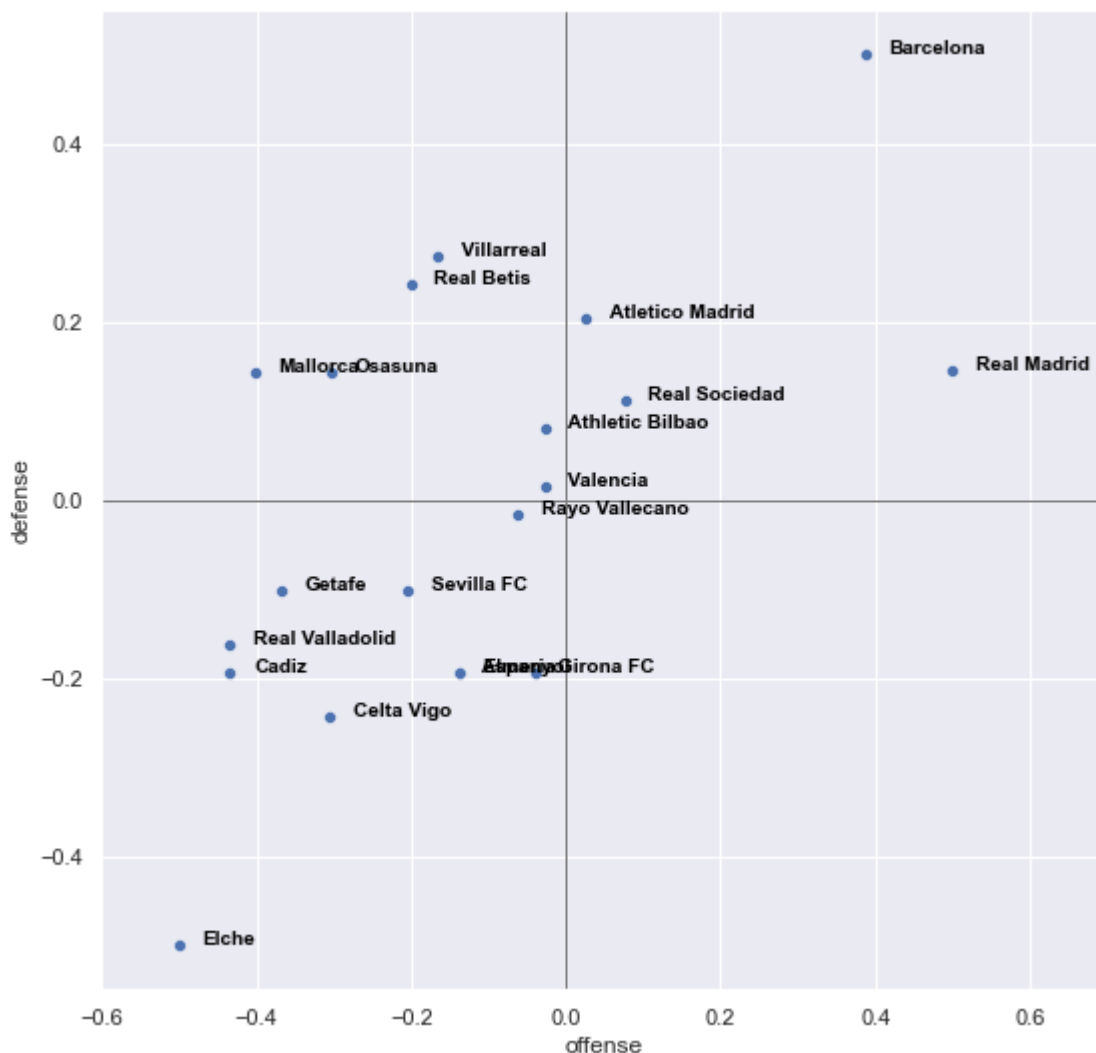
Out[45]:

	team	offense	defense
0	Almeria	-0.138996	-0.193878
1	Athletic Bilbao	-0.027778	0.079932
2	Atletico Madrid	0.025097	0.204082
3	Barcelona	0.387924	0.500000
4	Cadiz	-0.434363	-0.193878
5	Celta Vigo	-0.304912	-0.243197
6	Elche	-0.500000	-0.500000
7	Espanyol	-0.138996	-0.193878
8	Getafe	-0.368726	-0.102041
9	Girona FC	-0.040541	-0.193878
10	Mallorca	-0.401544	0.142857
11	Osasuna	-0.303089	0.142857
12	Rayo Vallecano	-0.062420	-0.017007
13	Real Betis	-0.200987	0.241497
14	Real Madrid	0.500000	0.146459
15	Real Sociedad	0.076148	0.112245
16	Real Valladolid	-0.434363	-0.163265
17	Sevilla FC	-0.204633	-0.102041
18	Valencia	-0.027778	0.015306
19	Villarreal	-0.166345	0.273810

```

In [46]: plt.figure(figsize=(9,9))
sns.set()
ax = sns.scatterplot(x="offense", y="defense", data=df_score2)
ax.axhline(y=0, color='grey', linewidth=1)
ax.axvline(x=0, color='grey', linewidth=1)
ax.set_xlim(-0.6,0.7)
for line in range(0,df_score2.shape[0]):
    ax.text(df_score2.offense[line]+0.03, df_score2.defense[line],
            df_score2.team[line], horizontalalignment='left', size='small', color='b')

```



Then I want to create a heatmap to show the overall scores between each teams.

```
In [47]: teams = df_S.team1.unique() #Select distinct teams
```

```
In [48]: teams.sort()
```

```
In [49]: df_score3 = df_S.groupby(['team1', 'team2'], as_index=False)['score1', 'score2'].sum() #total scores of games
```

C:\Users\basiab1\AppData\Local\Temp\ipykernel_4824\1083691764.py:1: FutureWarning: Indexing with multiple keys (implicitly converted to a tuple of keys) will be deprecated, use a list instead.

```
df_score3 = df_S.groupby(['team1', 'team2'], as_index=False)['score1', 'score2'].sum()
#total scores of games
```

```
In [50]: df_score3.head()
```

Out[50]:

	team1	team2	score1	score2
0	Almeria	Athletic Bilbao	0.0	0.0
1	Almeria	Atletico Madrid	1.0	1.0
2	Almeria	Barcelona	0.0	0.0
3	Almeria	Cadiz	0.0	0.0
4	Almeria	Celta Vigo	3.0	1.0

```
In [51]: df_score3a = df_S.groupby(['team1', 'team2'], as_index=False)['score1'].count() #game co
```

```
In [52]: df_score3b = df_score3a.rename(columns={"score1": "count"})
```

```
In [53]: df_score3c = pd.merge(df_score3, df_score3b, how='left', left_on=['team1', 'team2'], r
```

```
In [54]: df_score3c['score'] = (df_score3c['score1'] - df_score3c['score2'])/df_score3c['count']
```

```
In [55]: df_score3c = df_score3c.dropna()
```

```
In [56]: df_score3c.head()
```

Out[56]:

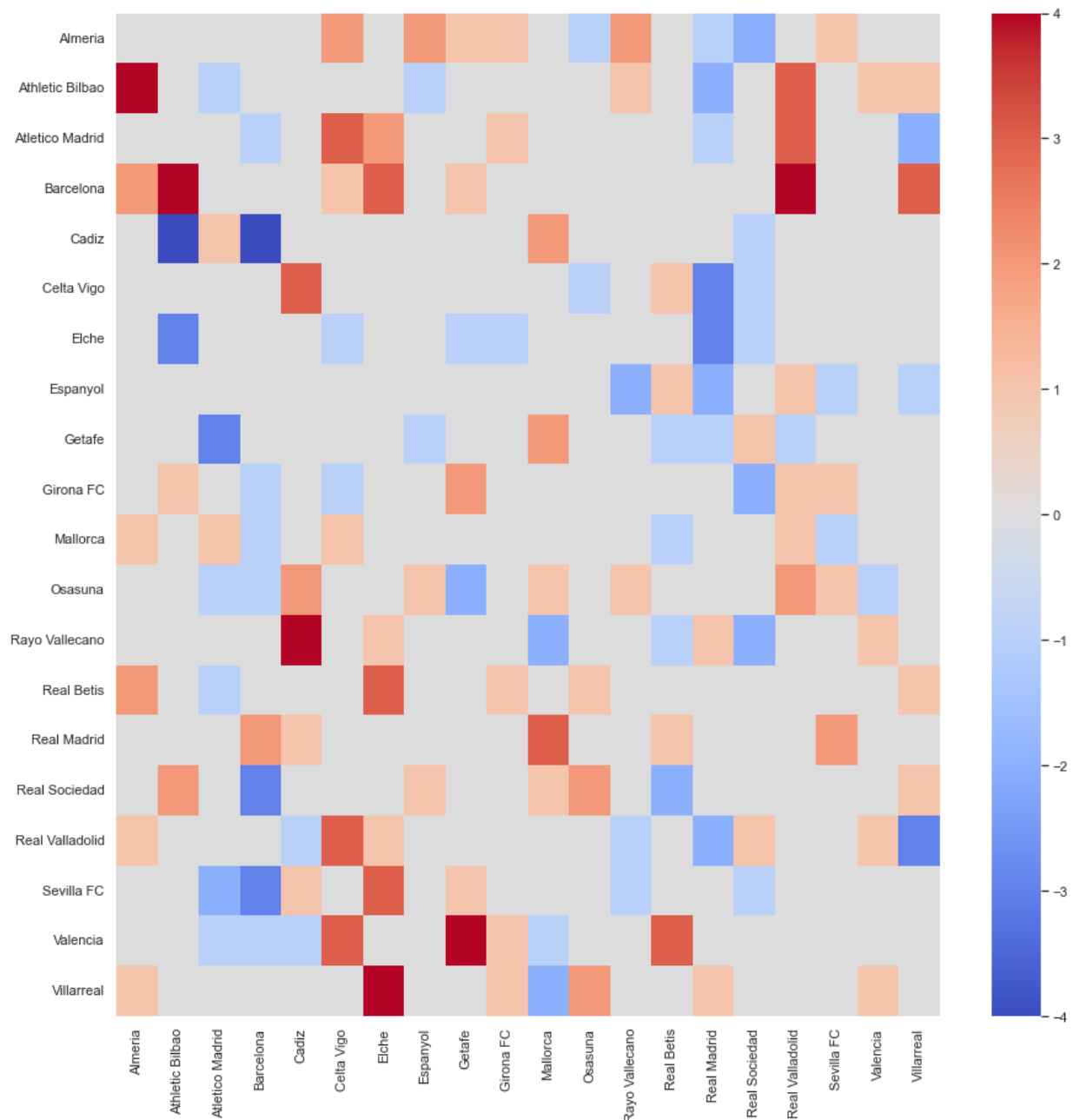
	team1	team2	score1	score2	count	score
1	Almeria	Atletico Madrid	1.0	1.0	1	0.0
4	Almeria	Celta Vigo	3.0	1.0	1	2.0
6	Almeria	Espanyol	3.0	1.0	1	2.0
7	Almeria	Getafe	1.0	0.0	1	1.0
8	Almeria	Girona FC	3.0	2.0	1	1.0

```
In [57]: L = teams.shape[0]
```

```
In [58]: score_matrix = pd.DataFrame(np.zeros([L,L])) #use loop to create a matrix to save the
```

```
In [59]: for i in range(df_score3c.shape[0]):
    team_a = df_score3c.iloc[i,].team1
    team_b = df_score3c.iloc[i,].team2
    score = df_score3c.iloc[i,].score
    ind1 = int(np.where(teams == team_a)[0])
    ind2 = int(np.where(teams == team_b)[0])
    score_matrix.iloc[ind1,ind2] = score
```

```
In [60]: plt.figure(figsize=(15,15))
    hmap = sns.heatmap(score_matrix, cmap="coolwarm", xticklabels=teams, yticklabels=teams,
    plt.show()
```



Warmer color means better score. The row will show the scores with each team. If the row shows a lot of warm color, means this team can usually out score the others. This graph indicates Barcelona, Atletico Madrid, and Real Madrid are the top teams, while Elche, Espanyol, and Getafe are on the other end.