

Analyse my LinkedlN network using Python

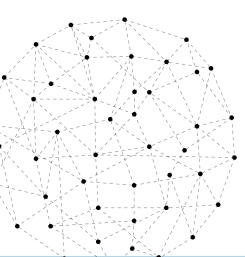




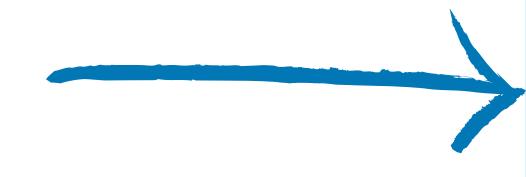
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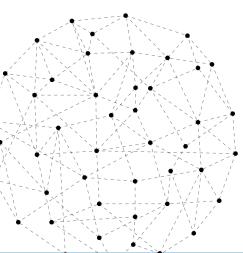




Specifically, I imported the connections data. we will now import and check the data:

```
[ ] # import libraries
    import pandas as pd
    import numpy as np
    import plotly.express as px
[ ] # import and view the data
    connections_df = pd.read_csv('sample_data/Connections.csv')
    connections_df.head(10)
[ ] connections_df.info()
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 708 entries, 0 to 707
    Data columns (total 6 columns):
                        Non-Null Count Dtype
         Column
         First Name
                        703 non-null
                                        object
         Last Name
                        703 non-null
                                        object:
         Email Address 22 non-null
                                        object
                        675 non-null
                                        object
         Company
         Position
                        676 non-null
                                        object:
         Connected On 708 non-null
                                        object
    dtypes: object(6)
    memory usage: 33.3+ KB
```





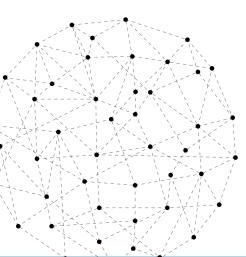






Connected On indicates the date I connected to that person, I will convert that column into a date-time and visualize it with Plotly

```
connections_df ["Connected On"] = pd.to_datetime(connections_df ["Connected On"])
connections_df ["Connected On"]
      2022-09-29
      2022-09-15
      2022-09-15
      2022-09-11
      2022-09-09
703
      2020-07-28
      2020-07-28
      2020-07-28
705
      2020-07-28
706
      2020-07-28
Name: Connected On, Length: 708, dtype: datetime64[ns]
```



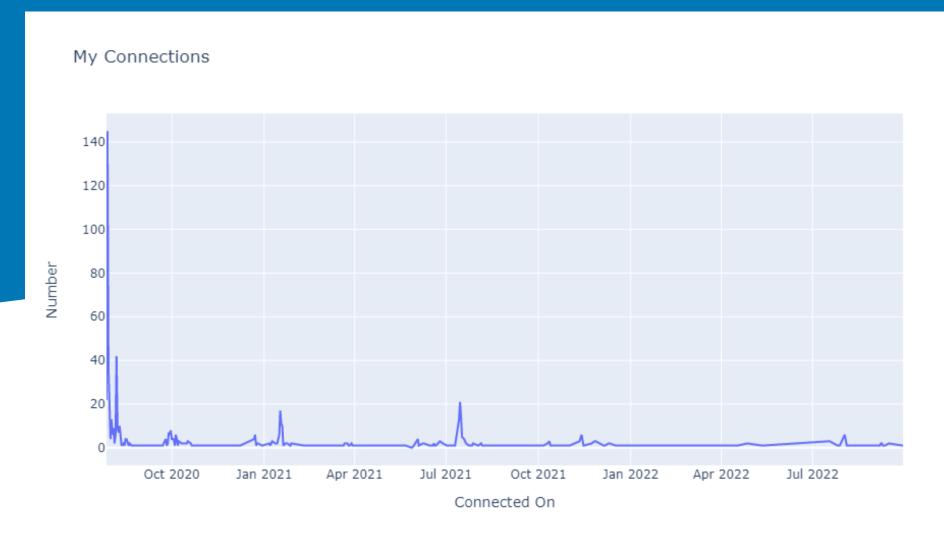


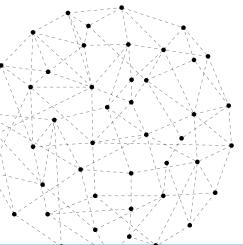






Number of Connections



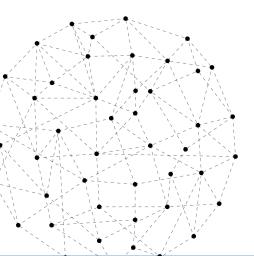






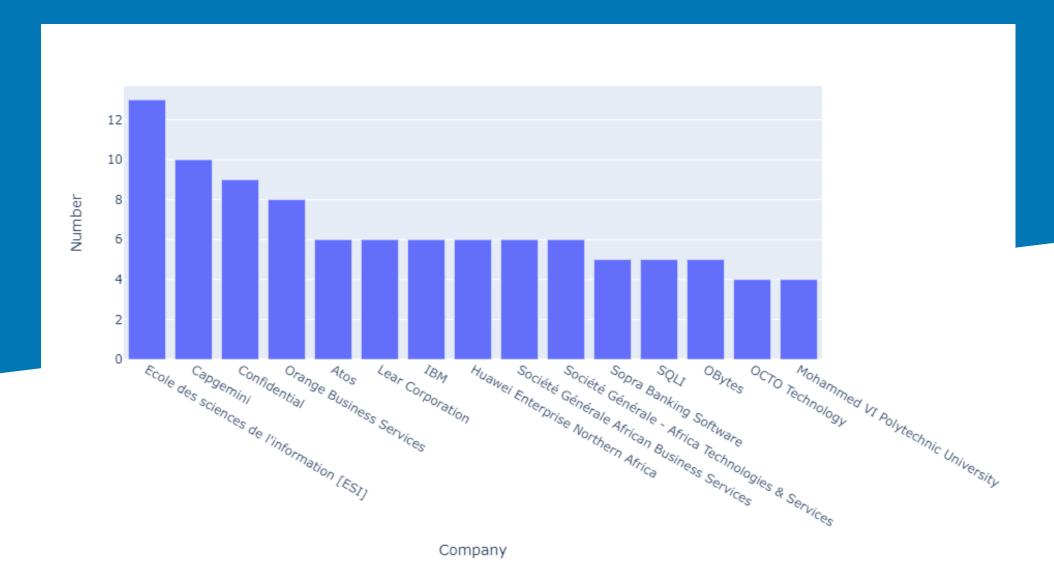
```
fig2 = px.bar(company_groupby[:15],
    x='Company',
    y='First Name',
    labels={'First Name': 'Number'})
```

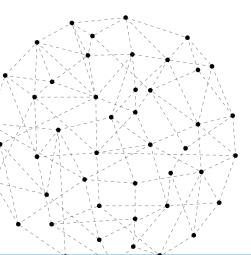
Bar Graph







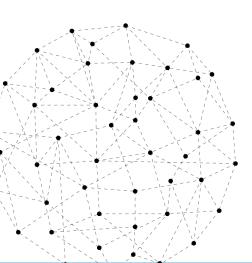




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Treemap

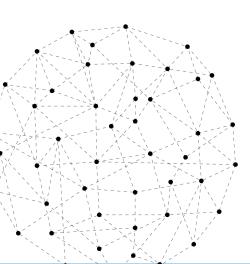


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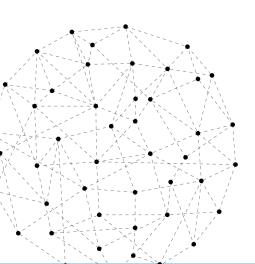


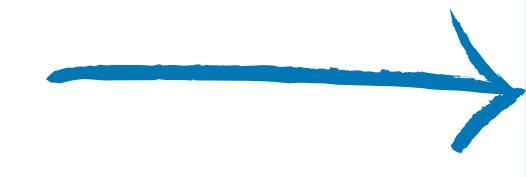






With a treemap, it is easier to compare the proportion of one company related to the others!
It looks like the majority of my network are from my School "Ecole des Sciences de l'Information [ESI]". The second-largest percentage is from Capgemini, Confideniel and Orange.

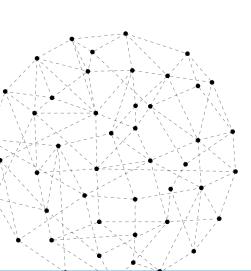








Bar Graph

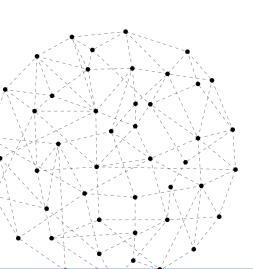












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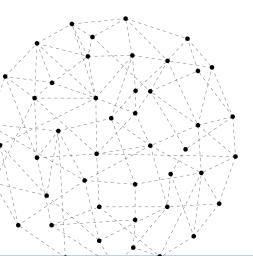


It is great that the top common positions in my network are my target groups for networking "data scientist".

Some people might have titles start with "data scientist" but also have more words in their titles.

Let's find out all the positions with words start with "Data scientist":

```
position = connections_df.Position.str.lower()
position.str.startswith('data scientist').sum()
35
```









Let's visualise the top common positions with wordcloud ;)

```
positions = ' '.join(connections_df[~connections_df.Position.str.lower().isnull()].Position.unique())
from wordcloud import WordCloud, STOPWORDS, ImageColorGenerator
import matplotlib.pyplot as plt
%matplotlib inline
def make_wordcloud(new_text):
    ''''function to make wordcloud'''
    wordcloud = WordCloud(width = 800, height = 800,
                min_font_size = 10,
                background_color='black',
                colormap='Set2',
                collocations=False).generate(new_text)
    fig7 = plt.figure(figsize = (8, 8), facecolor = None)
    plt.imshow(wordcloud, interpolation='bilinear')
    plt.axis("off")
    plt.tight_layout(pad = 0)
    plt.show()
    return fig7
```





