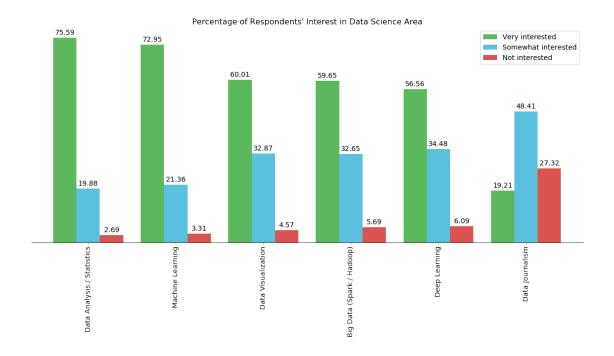
## Survey-Interest in Data Science Topics-Uday Pratap Singh

## June 25, 2019

```
In [1]: import pandas as pd
     import numpy as np
     import matplotlib.pyplot as plt
     %matplotlib inline
In [11]: df = pd.read csv('https://cocl.us/datascience survey data', index col=0)
In [12]: df.head()
Out[12]:
                             Very interested Somewhat interested \
      Big Data (Spark / Hadoop)
                                            1332
                                                              729
      Data Analysis / Statistics
                                          1688
                                                            444
      Data Journalism
                                         429
                                                          1081
      Data Visualization
                                         1340
                                                          734
      Deep Learning
                                        1263
                                                          770
                           Not interested
      Big Data (Spark / Hadoop)
                                            127
      Data Analysis / Statistics
                                          60
      Data Journalism
                                         610
      Data Visualization
                                         102
      Deep Learning
                                        136
In [13]: result = result.sort index(axis=1, ascending=False)
      result = df.sort values('Very interested', ascending=False)
      result
Out[13]:
                             Very interested Somewhat interested \
      Data Analysis / Statistics
                                                            444
                                          1688
      Machine Learning
                                         1629
                                                           477
      Data Visualization
                                         1340
                                                          734
      Big Data (Spark / Hadoop)
                                                              729
                                            1332
      Deep Learning
                                        1263
                                                          770
      Data Journalism
                                          429
                                                          1081
                           Not interested
      Data Analysis / Statistics
                                          60
      Machine Learning
                                          74
```

```
Data Visualization
                                         102
      Big Data (Spark / Hadoop)
                                             127
      Deep Learning
                                         136
      Data Journalism
                                         610
In [14]: #convert into percentage
      result = (result/2233)*100
      result.round(2)
Out[14]:
                              Very interested Somewhat interested \
      Data Analysis / Statistics
                                          75.59
                                                           19.88
      Machine Learning
                                         72.95
                                                           21.36
      Data Visualization
                                        60.01
                                                          32.87
      Big Data (Spark / Hadoop)
                                            59.65
                                                              32.65
      Deep Learning
                                        56.56
                                                          34.48
      Data Journalism
                                                          48.41
                                         19.21
                            Not interested
      Data Analysis / Statistics
                                          2.69
      Machine Learning
                                         3.31
      Data Visualization
                                        4.57
      Big Data (Spark / Hadoop)
                                            5.69
      Deep Learning
                                        6.09
      Data Journalism
                                        27.32
In [15]: ax = result.plot(kind='bar',
                figsize=(20, 8),
                width=0.8,
                color=['#5cb85c', '#5bc0de', '#d9534f'],
      ax.spines['left'].set visible(False)
      ax.spines['top'].set visible(False)
      ax.spines['right'].set visible(False)
      ax axes get yaxis() set visible(False)
      ax.tick params(labelsize=14)
      ax.legend(fontsize=14)
      ax.set title("Percentage of Respondents' Interest in Data Science Area", fontsize=16)
      for p in ax patches:
         ax.annotate(np.round(p.get height(),decimals=2),
                   (p.get x()+p.get width()/2., p.get height()),
                   ha='center',
                   va='center',
                   xytext = (0, 10),
                   textcoords='offset points',
                   fontsize = 14
      plt.show()
```



In []: