## Visualization

## April 12, 2017

```
In [1]: import pandas as pd
        from IPython.display import display
        %matplotlib inline
In [2]: # Display the data read from the file
        df = pd.read_csv('data+scientist_india.csv')
        df
Out [2]:
                                                                           Jobtitle
                        Jobkey
        0
             4d56dc8dbcb17c2e
                                                Data Scientist: Advanced Analytics
        1
             1fcc3e76efb71d80
                                                                     Data Scientist
        2
             8bb81ee54e2c5811
                                Data Scientist - OrgSolutions, McKinsey Solutions
        3
             1659078bc98c8660
                                                           Data Scientist (Intern)
        4
             e4239b0a79dc86d6
                                                                     Data Scientist
        5
             00764778f3941899
                                           RPA- Data Scientist / Machine learning
        6
             e18dabeea8e48fef
                                                         Machine Learning Engineer
        7
             ac6663a90377f9c5
                                                                     Data Scientist
             bb261c0c542f384e
                                                                     Data Scientist
             b8193f8772dd054d
                                                             Senior Data Scientist
             3513a964189c3b55
        10
                                           Data Analyst / Data Science (PRO Team)
        11
             7fa12a8131edbbfa
                                                                     Data Scientist
        12
             ae367db047859360
                                                                 Data Scientist II
        13
             868ffe242d332f70
                                                  IOT Data Scientist and Analytics
        14
             38d32e3a0940ea01
                                                        Manager - Data & Analytics
        15
             c3c219c86be3e331
                                                                      Data Engineer
             81e95f3b992c322c
                                                                 Sr Data Scientist
        17
             1dc272c43b7e6696
                                                                    Data Scientist
        18
             2e49466ea53825a6
                                  Sr Data & Information Architect, DIG IT-Finance
        19
             88a92f53e18cc1ac
                                     Data Scientist for a Funded Startup at Delhi
             659679d775126307
        20
                                               Data Scientist: Cognitive Computing
             4d91c4f48dff8cf1
        21
                                Senior Research Analyst - Global Financial Ins...
        22
             9a810205c40f8f29
                                                                     Data Scientist
             71f89200e0425516
                                Senior Research Engineer/Data Scientist Bangalore
        2.3
        24
             86eff5021e6fd3a9
                                                                     Data Scientist
        25
             1fcc3e76efb71d80
                                                                     Data Scientist
        26
             8bb81ee54e2c5811
                                Data Scientist - OrgSolutions, McKinsey Solutions
        27
             1659078bc98c8660
                                                           Data Scientist (Intern)
```

```
29
     00764778f3941899
                                    RPA- Data Scientist / Machine learning
. .
                   . . .
                                                                          . . .
470
     0ead7e2512b95844
                                                              Data Scientist
     0e13741559af327f
471
                                                              Data Scientist
472
     100a149c0e402f2b
                                                              Data Scientist
473
     d9de0986c9cdcd8d
                                                              Data Scientist
474
     2830c0996673ed99
                                                              Data Scientist
475
     88a92f53e18cc1ac
                              Data Scientist for a Funded Startup at Delhi
     659679d775126307
476
                                       Data Scientist: Cognitive Computing
477
     4d91c4f48dff8cf1
                        Senior Research Analyst - Global Financial Ins...
478
     9a810205c40f8f29
                                                              Data Scientist
479
     71f89200e0425516
                        Senior Research Engineer/Data Scientist Bangalore
480
     86eff5021e6fd3a9
                                                              Data Scientist
     62780ee985681ad2
481
                                                                R Programmer
482
     648c02ce8eaeac84
                                                              Data Scientist
483
     ed7b73cda16f722f
                                         Data Scientist (Machine Learning)
484
     edb504454a9f7d8f
                                                                R Programmer
485
     d79e42eefdbf4785
                                                              Data Scientist
486
     491263b98c974209
                                                              Data Scientist
487
     3074a76c043dbd41
                                                              Data Scientist
488
     a669444e7c10df2f
                                                              Data Scientist
489
     bfca376a30ca80c4
                                                              Data Scientist
490
     d5bd969722ca0123
                        Walk in for Laboratory Technician, Attendant &...
491
     d011bdda6a322413
                                            Graduate Engineer Trainee (IIT)
492
     353222bae3b82ae2
                                                              Data Scientist
493
     5426018deebb71e4
                                                              Data Scientist
494
     0ead7e2512b95844
                                                              Data Scientist
495
     0e13741559af327f
                                                              Data Scientist
496
     100a149c0e402f2b
                                                              Data Scientist
497
     d9de0986c9cdcd8d
                                                              Data Scientist
     2830c0996673ed99
498
                                                              Data Scientist
     b13d2635baad9d1c
499
                                                              Data Scientist
            City State Country
                                          FormattedLocation
0
              NaN
                    NaN
                              ΙN
                                                       India
       Bangalore
1
                                       Bangalore, Karnataka
                     KA
                              IN
2
       New Delhi
                     DL
                                            New Delhi, Delhi
                              ΙN
3
       Hyderabad
                                  Hyderabad, Andhra Pradesh
                     ΑP
                              IN
4
            Pune
                     MH
                              TN
                                           Pune, Maharashtra
5
       Bangalore
                                       Bangalore, Karnataka
                     KA
                              IN
6
       Hyderabad
                                  Hyderabad, Andhra Pradesh
                     AP
                              IN
7
       Hyderabad
                                  Hyderabad, Andhra Pradesh
                     AP
                              ΙN
                                        Chennai, Tamil Nadu
8
         Chennai
                     TN
                              ΙN
9
                                        Chennai, Tamil Nadu
         Chennai
                     TN
                              IN
10
         Gurgaon
                     HR
                              IN
                                            Gurgaon, Haryana
11
           Delhi
                     DL
                              IN
                                                Delhi, Delhi
12
       Bangalore
                                       Bangalore, Karnataka
                     KA
                              IN
```

Data Scientist

2.8

e4239b0a79dc86d6

13	Bangalore	KA	IN	Bangalore, Karnataka
14	Bangalore	KA	IN	Bangalore, Karnataka
15	Bangalore	KA	IN	Bangalore, Karnataka
16	Bangalore	KA	IN	Bangalore, Karnataka
17	Hyderabad	AP	IN	Hyderabad, Andhra Pradesh
18	Bangalore	KA	IN	Bangalore, Karnataka
19	Delhi	DL	IN	Delhi, Delhi
20	NaN	NaN	IN	India
21	New Delhi	DL	IN	New Delhi, Delhi
22	Bangalore	KA	IN	Bangalore, Karnataka
23	Bangalore	KA	IN	Bangalore, Karnataka
24	NaN	NaN	IN	India
25	Bangalore	KA	IN	Bangalore, Karnataka
26	New Delhi	DL	IN	New Delhi, Delhi
27	Hyderabad	AP	IN	Hyderabad, Andhra Pradesh
28	Pune	MH	IN	Pune, Maharashtra
29	Bangalore	KA	IN	Bangalore, Karnataka
	Dangarore	• • •	• • •	
470	Hyderabad	AP	IN	Hyderabad, Andhra Pradesh
471	Mumbai	MH	IN	Mumbai, Maharashtra
472	Navi Mumbai	MH	IN	Navi Mumbai, Maharashtra
473	NaN	NaN	IN	, India
474	Guwahati	AS	IN	Guwahati, Assam
475	Delhi	DL	IN	Delhi, Delhi
476	NaN	NaN	IN	India
477	New Delhi	DL	IN	New Delhi, Delhi
478	Bangalore	KA	IN	Bangalore, Karnataka
479	Bangalore	KA	IN	Bangalore, Karnataka
480	NaN	NaN	IN	India
481	Noida	UP	IN	Noida, Uttar Pradesh
482	Delhi	DL	IN	Delhi, Delhi
483	NaN	NaN	IN	India
484	Noida	UP	IN	Noida, Uttar Pradesh
485		_		,
	Gurgaon	HR	IN	Gurgaon, Haryana
486	Pune	MH	IN	Pune, Maharashtra
487	Bangalore	KA	IN	Bangalore, Karnataka
488	Bangalore	KA	IN	Bangalore, Karnataka
489	Pune	MH	IN	Pune, Maharashtra
490	NaN	NaN	IN	India
491	Navi Mumbai	MH	IN	Navi Mumbai, Maharashtra
492	Gurgaon	HR	IN	Gurgaon, Haryana
493	Bangalore	KA	IN	Bangalore, Karnataka
494	Hyderabad	AP	IN	Hyderabad, Andhra Pradesh
495	Mumbai	MH	IN	Mumbai, Maharashtra
496	Navi Mumbai	MH	IN	Navi Mumbai, Maharashtra
497	NaN	NaN	IN	India
498	Guwahati	AS	IN	Guwahati, Assam
499	Chennai	TN	IN	Chennai, Tamil Nadu

```
Date
     Mon, 27 Mar 2017 20:01:40 GMT
0
1
     Thu, 30 Mar 2017 10:16:06 GMT
2
     Mon, 13 Feb 2017 17:35:02 GMT
3
     Mon, 03 Apr 2017 08:23:39 GMT
4
     Fri, 24 Mar 2017 05:58:13 GMT
     Wed, 22 Mar 2017 07:43:59 GMT
5
6
     Fri, 17 Mar 2017 08:20:57 GMT
7
     Thu, 16 Feb 2017 17:34:35 GMT
     Wed, 15 Feb 2017 06:20:10 GMT
8
9
     Wed, 15 Feb 2017 06:20:04 GMT
     Thu, 09 Mar 2017 18:06:35 GMT
10
11
     Tue, 21 Mar 2017 13:18:38 GMT
12
     Thu, 23 Mar 2017 10:29:09 GMT
13
     Thu, 16 Feb 2017 11:06:14 GMT
14
     Tue, 11 Apr 2017 10:18:23 GMT
15
     Thu, 23 Mar 2017 10:15:16 GMT
16
     Thu, 06 Apr 2017 10:20:32 GMT
17
     Wed, 01 Feb 2017 10:15:49 GMT
     Fri, 31 Mar 2017 10:17:13 GMT
18
     Sat, 11 Feb 2017 16:01:35 GMT
19
20
     Mon, 27 Mar 2017 20:08:29 GMT
21
     Fri, 31 Mar 2017 18:48:15 GMT
22
     Sat, 08 Apr 2017 04:39:32 GMT
23
     Tue, 21 Mar 2017 21:49:50 GMT
24
     Wed, 01 Mar 2017 11:58:47 GMT
25
     Thu, 30 Mar 2017 10:16:06 GMT
26
     Mon, 13 Feb 2017 17:35:02 GMT
27
     Mon, 03 Apr 2017 08:23:39 GMT
28
     Fri, 24 Mar 2017 05:58:13 GMT
29
     Wed, 22 Mar 2017 07:43:59 GMT
. .
470
     Wed, 22 Feb 2017 10:52:02 GMT
471
     Mon, 13 Mar 2017 10:18:46 GMT
     Tue, 04 Apr 2017 07:23:45 GMT
472
473
     Thu, 02 Feb 2017 22:35:47 GMT
474
     Mon, 10 Apr 2017 10:44:09 GMT
475
     Sat, 11 Feb 2017 16:01:35 GMT
476
     Mon, 27 Mar 2017 20:08:29 GMT
477
     Fri, 31 Mar 2017 18:48:15 GMT
478
     Sat, 08 Apr 2017 04:39:32 GMT
479
     Tue, 21 Mar 2017 21:49:50 GMT
480
     Wed, 01 Mar 2017 11:58:47 GMT
     Wed, 22 Mar 2017 09:58:10 GMT
481
482
     Sat, 01 Apr 2017 05:11:07 GMT
483
     Wed, 29 Mar 2017 05:05:49 GMT
484
     Thu, 16 Mar 2017 10:03:16 GMT
```

```
485
    Tue, 11 Apr 2017 08:34:08 GMT
486
     Sat, 01 Apr 2017 05:11:06 GMT
    Wed, 29 Mar 2017 05:24:17 GMT
487
488
    Thu, 06 Apr 2017 10:31:15 GMT
489
    Fri, 31 Mar 2017 05:15:31 GMT
490
    Mon, 10 Apr 2017 06:07:01 GMT
491
    Mon, 10 Apr 2017 17:49:25 GMT
492
    Fri, 24 Mar 2017 05:45:32 GMT
493
    Mon, 27 Mar 2017 19:55:39 GMT
494
    Wed, 22 Feb 2017 10:52:02 GMT
495
    Mon, 13 Mar 2017 10:18:46 GMT
496
    Tue, 04 Apr 2017 07:23:45 GMT
497
    Thu, 02 Feb 2017 22:35:47 GMT
498
    Mon, 10 Apr 2017 10:44:09 GMT
499
    Sat, 18 Mar 2017 06:11:29 GMT
                                                Snippet \
0
     Will be able to manage and help to grow the Da...
1
     As a data scientist, you'd be working towards ...
2
     As one of the fastest-growing parts of our fir...
     Work on a small data science team in charge of ...
3
4
     Build mathematical models using the data; Crea...
5
     Job Description for Machine Learning and Data ...
6
     Create language models from petabytes of text ...
7
     POC/ POV / IP in Data Science and Big Data Ana...
8
    Must have solid understanding of statistical m...
9
     Strong understanding of Algorithms, Data Struc...
10
     Job Description We are looking for a Data Scie...
11
     As a Data Scientist, you will: Using best-in-...
12
     Data Scientist II. Quantitative analysis, data...
13
     What you'll be doing - Use streaming analytics...
     Statistical analyses, advanced data visualizat...
14
15
     Understands logical and physical data models, ...
16
     Previous experience working with large data se...
17
     We are looking for hands-on data scientists to...
     Implement Data warehouse & amp; Big/Small data ...
18
     Data Scientist Required Location:. We are hiri...
19
20
     Streaming Data Analytics. Experience in marsha...
21
     Data Scientists are creative problem solvers w...
     Experience in applying everything from logisti...
22
23
     Senior Research Engineer / Data Scientist. We ...
24
     The Data Scientist & amp; Data Warehouse Expert...
25
     As a data scientist, you'd be working towards ...
     As one of the fastest-growing parts of our fir...
26
27
    Work on a small data science team in charge of ...
28
    Build mathematical models using the data; Crea...
29
     Job Description for Machine Learning and Data ...
```

. .

```
473
    Data mining techniques. Paysafe is currently s...
474
     Zaloni's Bedrock Data Management Platform™ is ...
475
    Data Scientist Required Location:. We are hiri...
476
     Streaming Data Analytics. Experience in marsha...
477
    Data Scientists are creative problem solvers w...
478
    Experience in applying everything from logisti...
479
     Senior Research Engineer / Data Scientist. We ...
480
     The Data Scientist & amp; Data Warehouse Expert...
481
    As a Data Scientist responsible for R programm...
482
     Java, Scala, C , JavaScript, Python, R, SQL, J...
483
    We are looking for an exceptional data analyst...
484
    As a Data Scientist responsible for R programm...
485
    Work on large data sets of structured, semi-st...
486
    The primary responsibility would be to use sta...
487
     Strong background in Natural Language Processi...
488
     Be a data enthusiast and a data skeptic; Have ...
    Machine Learning, Times Series, Data Mining, M...
489
    NICED Recruitment 2017 - Walk in for Laborator...
490
491
     Job Responsibilities: 1. To contribute in the...
492
     Solve new business problems through analytical...
493
    Big Data Tools:. Conducts advanced data analys...
494
    ProKarma is currently hiring for Data Scientis...
495
    We are looking for two data scientists. Master...
496
    Data Scientists at SMARTe work on solving prob...
497
    Data mining techniques. Paysafe is currently s...
498
     Zaloni's Bedrock Data Management Platform™ is ...
499
     Develop analytical models to answer high-level...
                                                    URL
                                                          Latitude
                                                                     Longitud
0
    http://www.indeed.co.in/viewjob?jk=4d56dc8dbcb...
                                                                NaN
                                                                           Ná
1
     http://www.indeed.co.in/viewjob?jk=1fcc3e76efb...
                                                                      77.5989
                                                         12.975275
2
    http://www.indeed.co.in/viewjob?jk=8bb81ee54e2...
                                                                      77.2197
                                                         28.634615
3
                                                                      78.4725
    http://www.indeed.co.in/viewjob?jk=1659078bc98...
                                                         17.373627
    http://www.indeed.co.in/viewjob?jk=e4239b0a79d...
                                                                      73.8516
4
                                                         18.519230
5
    http://www.indeed.co.in/viewjob?jk=00764778f39...
                                                         12.975275
                                                                      77.5989
6
    http://www.indeed.co.in/viewjob?jk=e18dabeea8e...
                                                                      78.4725
                                                         17.373627
7
    http://www.indeed.co.in/viewjob?jk=ac6663a9037...
                                                         17.373627
                                                                      78.4725
8
    http://www.indeed.co.in/viewjob?jk=bb261c0c542...
                                                                      80.2747
                                                         13.085165
9
    http://www.indeed.co.in/viewjob?jk=b8193f8772d...
                                                                      80.2747
                                                         13.085165
10
    http://www.indeed.co.in/viewjob?jk=3513a964189...
                                                         28.464285
                                                                      77.0329
    http://www.indeed.co.in/viewjob?jk=7fa12a8131e...
                                                                      77.2142
11
                                                         28.664835
12
    http://www.indeed.co.in/viewjob?jk=ae367db0478...
                                                         12.975275
                                                                      77.5989
13
    http://www.indeed.co.in/viewjob?jk=868ffe242d3...
                                                         12.975275
                                                                      77.5989
                                                                      77.5989
14
    http://www.indeed.co.in/viewjob?jk=38d32e3a094...
                                                         12.975275
15
     http://www.indeed.co.in/viewjob?jk=c3c219c86be...
                                                         12.975275
                                                                      77.5989
```

ProKarma is currently hiring for Data Scientis...

We are looking for two data scientists. Master...

Data Scientists at SMARTe work on solving prob...

470

471

472

```
http://www.indeed.co.in/viewjob?jk=81e95f3b992...
                                                                       77.5989
16
                                                          12.975275
17
     http://www.indeed.co.in/viewjob?jk=1dc272c43b7...
                                                          17.373627
                                                                       78.4725
18
     http://www.indeed.co.in/viewjob?jk=2e49466ea53...
                                                          12.975275
                                                                       77.5989
19
     http://www.indeed.co.in/viewjob?jk=88a92f53e18...
                                                          28.664835
                                                                       77.2142
     http://www.indeed.co.in/viewjob?jk=659679d7751...
20
                                                                 NaN
                                                                            Ná
21
     http://www.indeed.co.in/viewjob?jk=4d91c4f48df...
                                                                       77.2197
                                                          28.634615
22
     http://www.indeed.co.in/viewjob?jk=9a810205c40...
                                                          12.975275
                                                                       77.5989
23
     http://www.indeed.co.in/viewjob?jk=71f89200e04...
                                                          12.975275
                                                                       77.5989
24
     http://www.indeed.co.in/viewjob?jk=86eff5021e6...
                                                                 NaN
                                                                            Ná
25
     http://www.indeed.co.in/viewjob?jk=1fcc3e76efb...
                                                          12.975275
                                                                       77.5989
26
     http://www.indeed.co.in/viewjob?jk=8bb81ee54e2...
                                                                       77.2197
                                                          28.634615
27
     http://www.indeed.co.in/viewjob?jk=1659078bc98...
                                                                       78.4725
                                                          17.373627
28
     http://www.indeed.co.in/viewjob?jk=e4239b0a79d...
                                                                       73.8516
                                                          18.519230
                                                                       77.5989
     http://www.indeed.co.in/viewjob?jk=00764778f39...
29
                                                          12.975275
. .
470
     http://www.indeed.co.in/viewjob?jk=0ead7e2512b...
                                                          17.373627
                                                                       78.4725
471
     http://www.indeed.co.in/viewjob?jk=0e13741559a...
                                                          19.013737
                                                                       72.8461
                                                                       73.0549
472
     http://www.indeed.co.in/viewjob?jk=100a149c0e4...
                                                          19.115385
473
     http://www.indeed.co.in/viewjob?jk=d9de0986c9c...
                                                                 NaN
                                                                            Ná
474
     http://www.indeed.co.in/viewjob?jk=2830c099667...
                                                          26.184067
                                                                       91.7472
                                                                       77.2142
475
     http://www.indeed.co.in/viewjob?jk=88a92f53e18...
                                                          28.664835
     http://www.indeed.co.in/viewjob?jk=659679d7751...
476
                                                                 NaN
477
     http://www.indeed.co.in/viewjob?jk=4d91c4f48df...
                                                          28.634615
                                                                       77.2197
478
     http://www.indeed.co.in/viewjob?jk=9a810205c40...
                                                                       77.5989
                                                          12.975275
479
     http://www.indeed.co.in/viewjob?jk=71f89200e04...
                                                          12.975275
                                                                       77.5989
     http://www.indeed.co.in/viewjob?jk=86eff5021e6...
480
                                                                 NaN
                                                                            Ná
481
     http://www.indeed.co.in/viewjob?jk=62780ee9856...
                                                                       77.3296
                                                          28.579670
     http://www.indeed.co.in/viewjob?jk=648c02ce8ea...
482
                                                           28.664835
                                                                       77.2142
483
     http://www.indeed.co.in/viewjob?jk=ed7b73cda16...
                                                                 NaN
                                                                            Na
484
     http://www.indeed.co.in/viewjob?jk=edb504454a9...
                                                          28.579670
                                                                       77.3296
                                                                       77.0329
485
     http://www.indeed.co.in/viewjob?jk=d79e42eefdb...
                                                          28.464285
486
     http://www.indeed.co.in/viewjob?jk=491263b98c9...
                                                          18.519230
                                                                       73.8516
487
     http://www.indeed.co.in/viewjob?jk=3074a76c043...
                                                          12.975275
                                                                       77.5989
488
     http://www.indeed.co.in/viewjob?jk=a669444e7c1...
                                                                       77.5989
                                                          12.975275
489
     http://www.indeed.co.in/viewjob?jk=bfca376a30c...
                                                                       73.8516
                                                          18.519230
490
     http://www.indeed.co.in/viewjob?jk=d5bd969722c...
                                                                 NaN
491
     http://www.indeed.co.in/viewjob?jk=d011bdda6a3...
                                                                       73.0549
                                                          19.115385
492
     http://www.indeed.co.in/viewjob?jk=353222bae3b...
                                                                       77.0329
                                                          28.464285
493
     http://www.indeed.co.in/viewjob?jk=5426018deeb...
                                                                       77.5989
                                                          12.975275
494
     http://www.indeed.co.in/viewjob?jk=0ead7e2512b...
                                                          17.373627
                                                                       78.4725
495
     http://www.indeed.co.in/viewjob?jk=0e13741559a...
                                                                       72.8461
                                                          19.013737
496
     http://www.indeed.co.in/viewjob?jk=100a149c0e4...
                                                                       73.0549
                                                          19.115385
497
     http://www.indeed.co.in/viewjob?jk=d9de0986c9c...
                                                                 NaN
                                                                            Ná
498
     http://www.indeed.co.in/viewjob?jk=2830c099667...
                                                          26.184067
                                                                       91.7472
499
     http://www.indeed.co.in/viewjob?jk=b13d2635baa...
                                                          13.085165
                                                                       80.2747
```

 ${\tt FormattedRelativeTime}$ 

0 14 days ago

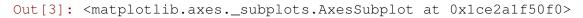
1	12	days	ago
2	30+	days	ago
3	8	days	ago
4	18	days	ago
5	20	days	ago
6	25	days	ago
7	30+	days	ago
8	30+	days	ago
9	30+	days	ago
10	30+	days	
11	21	days	ago
12	19		ago
13	30+	days	ago
		days	ago
14		nours	ago
15	19	days	ago
16	5	days	ago
17	30+	days	ago
18	11	days	ago
19	30+	days	ago
20	14	days	ago
21	10	days	ago
22	3	days	ago
23	20	days	ago
24	30+	days	ago
25	12	days	ago
26	30+	days	ago
27	8	days	ago
28	18	days	ago
29	20	days	ago
		_	
470	30+	days	ago
471	29	days	ago
472	7	days	ago
473	30+	days	ago
474		L day	
475	30+	days	ago
476	14	days	ago
477	10	days	
478	3	days	ago
479	20		ago
		days	ago
480	30+	days	ago
481	20	days	ago
482	10	days	ago
483	13	days	ago
484	26	days	ago
485		nours	ago
486	10	days	ago
487	13	days	ago

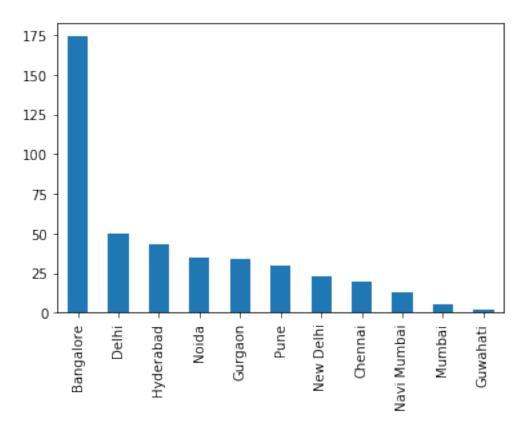
```
488
                5 days ago
489
               11 days ago
490
                 1 day ago
491
              23 hours ago
               18 days ago
492
493
               14 days ago
494
              30+ days ago
495
               29 days ago
496
                7 days ago
497
              30+ days ago
498
                 1 day ago
               24 days ago
499
```

[500 rows x 12 columns]

In [3]: #Data Science Jobs based on Cities

df['City'].value\_counts().plot(kind = 'bar')





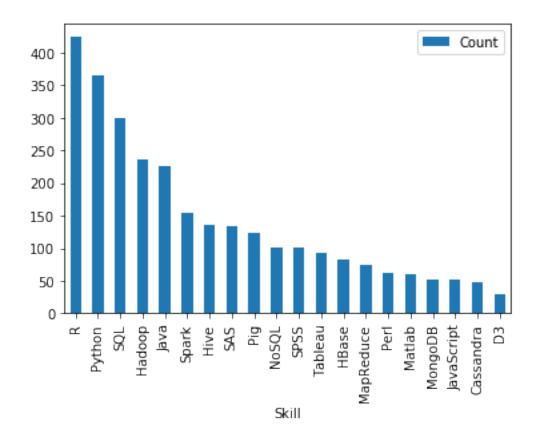
In [4]: #Required Skills for data Scientist

```
df_skills = pd.read_csv('skills_data+scientist_india.csv')
        (df_skills)
Out[4]:
                 Skill Count
        0
                Hadoop
                           236
        1
                           365
                Python
        2
                           424
                      R
        3
                           137
                  Hive
        4
                            83
                 HBase
        5
                  Perl
                            62
        6
               Tableau
                            94
        7
                  Spark
                           155
        8
                    SQL
                           299
        9
                   Java
                           226
        10
             MapReduce
                            74
        11
                Matlab
                            61
        12
                           123
                    Pig
        13
                    SAS
                           134
        14
                   SPSS
                           101
        15
                 NoSQL
                           102
        16
                            52
               MongoDB
        17
                Mahout
                            15
                            52
        18
            JavaScript
        19
             Cassandra
                            47
        20
                  Ruby
                            20
        21
                 Excel
                            20
                            18
        22
                  Scala
        23
                     D3
                            30
In [5]: # Top 10 skills looked for ny companies
        df_skills=df_skills.sort(['Count'], ascending=[False])
        df skills.head(10)
C:\Users\I322343\AppData\Local\Continuum\Anaconda3\lib\site-packages\ipykernel\__ma
  app.launch_new_instance()
Out [5]:
             Skill Count
        2
                       424
                 R
        1
            Python
                       365
        8
                       299
               SQL
                       236
        0
            Hadoop
        9
              Java
                       226
        7
             Spark
                      155
        3
              Hive
                       137
        13
               SAS
                       134
```

Pig

NoSQL

```
In [6]: df_skills.head(20).plot(kind = 'bar', x='Skill', y='Count')
Out[6]: <matplotlib.axes._subplots.AxesSubplot at 0x1ce29e932b0>
```



In [7]: #Consolidated method to do all clean up and visualization

def job\_vis(csv\_file):
 df\_skills = pd.read\_csv(csv\_file)

 print('Skills required for a data scientist are: ')
 display(df\_skills['Skill'])

 print('Top 10 skills looked for by companies WRT job postings are: ')
 df\_skills=df\_skills.sort\_values(['Count'], ascending=[False])
 display(df\_skills.head(10))

 print("Let's see this data in bar graph")
 df\_skills.head(20).plot(kind = 'bar', x='Skill', y='Count')

In []: job\_vis('skills\_data+scientist\_india.csv')

In [1]: import os
 os.environ

Out[1]: environ({'ACLOCAL\_PATH': 'C:\\Program Files\\Git\\mingw64\\share\\aclocal;