

Fintech Hiring trends in the largest banks in the US

1. Authors

Bhavya Haridas - Northeastern University

Harshitha S Gadadhar - Northeastern University

Saumil Shah - Northeastern University

Nikita Gawde - Northeastern University

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2.Introduction

- Financial technology, often termed as FinTech, is the technology innovation which is competing with the traditional financial methods on the delivery of the services.
- Most companies in the banking sector are using FinTech to improve the customer service and increase the revenue growth thus providing end to end financial services using the Internet.
- Some of the Fintech applications include the use of technologies like mobile banking, cryptocurrency and investing services , trade and risk management.
- In our experiment we are analysing the the hiring trends in FinTech industries and understand if a particular skill is given preference while generating job applications in this sector.

3.Data Collection and Processing

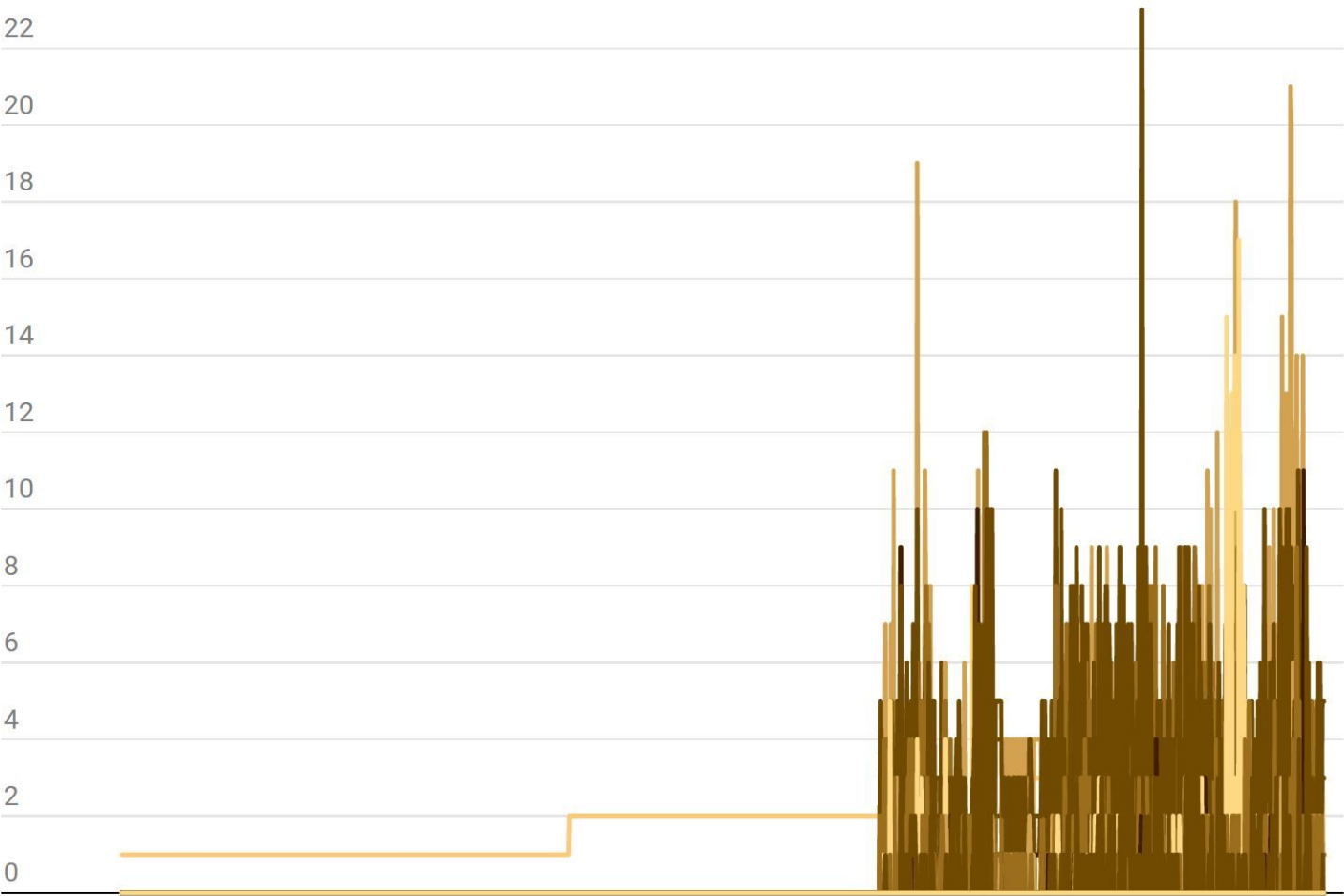
- In order to understand the industry and upcoming technologies of Fintech we studied 4 reports summarized by the World Economic Forum(WEF).
- The data was extracted from the reports and cleaned . From the cleaned text the keywords are selected based on the following 3 procedures.
 - a) Word count
 - b) Text Rank
 - c) TF/IDF
- 3 csv files were generated containing the top 100 keywords of FinTech from the above procedures.
- We analyzed two leading companies in the FinTech industry, namely,Charles Schwab Bank and PNC Financial Services Group Inc. in order to obtain information about the Job postings available in each of them.
- The online job postings were crawled using BeautifulSoup to obtain further details.
- Each job posting is parsed and separately matched with the 3 keyword files extracted in the first section. The data set is stored as csv files with the prescribed headers.

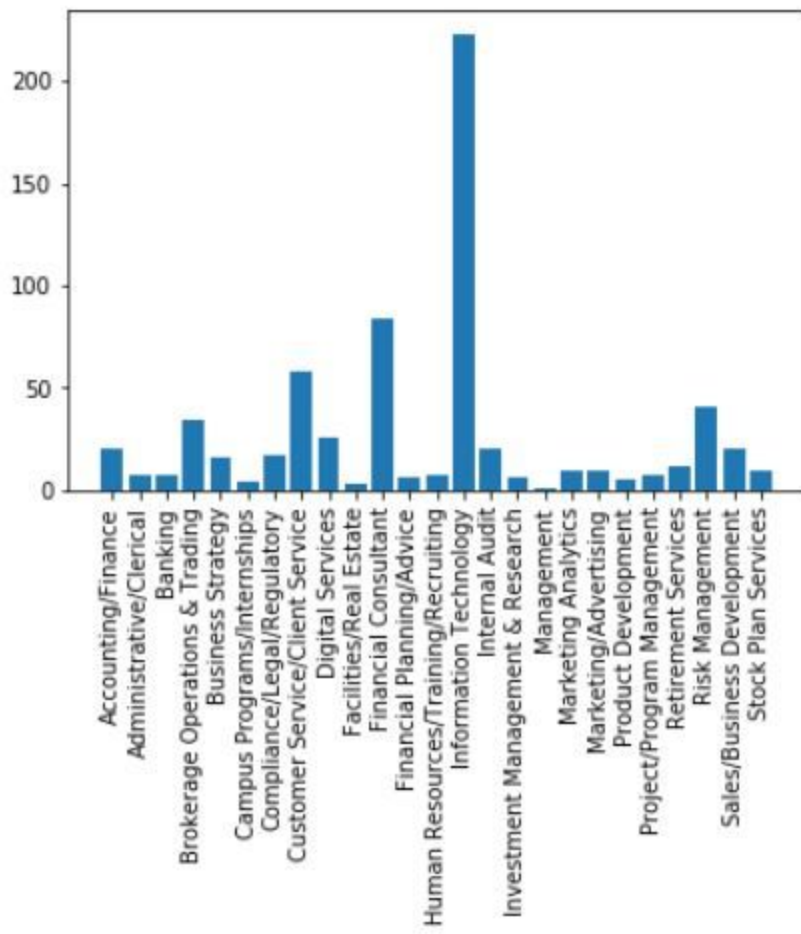
4. Data Analyzing and Inference

- The compiled csv data files are analyzed using the matplotlib library and Data wrapper to generate visual representation of the data scraped..
- This visualization is used to draw insights of the hiring trends .
- The visualization graphs presented depicts:
 - the proportion of the categories in which the companies hire.
 - the number of jobs offered in a one location.
 - Popular keywords used by companies while advertising their posting.

	A	B	C	D
1	ListId	Keyword Id	Word	
2	1	2	services	
3	1	3	digital	
4	1	22	global	
5	1	1	financial	
6	1	6	world	
7	1	12	risk	
8	1	21	asset	
9	1	25	Trading	
10	1	36	legal	
11	2	32	legal	
12	2	50	financial	
13	2	58	leadership	
14	3	61	analytical	
15	3	68	blockchain	
16				

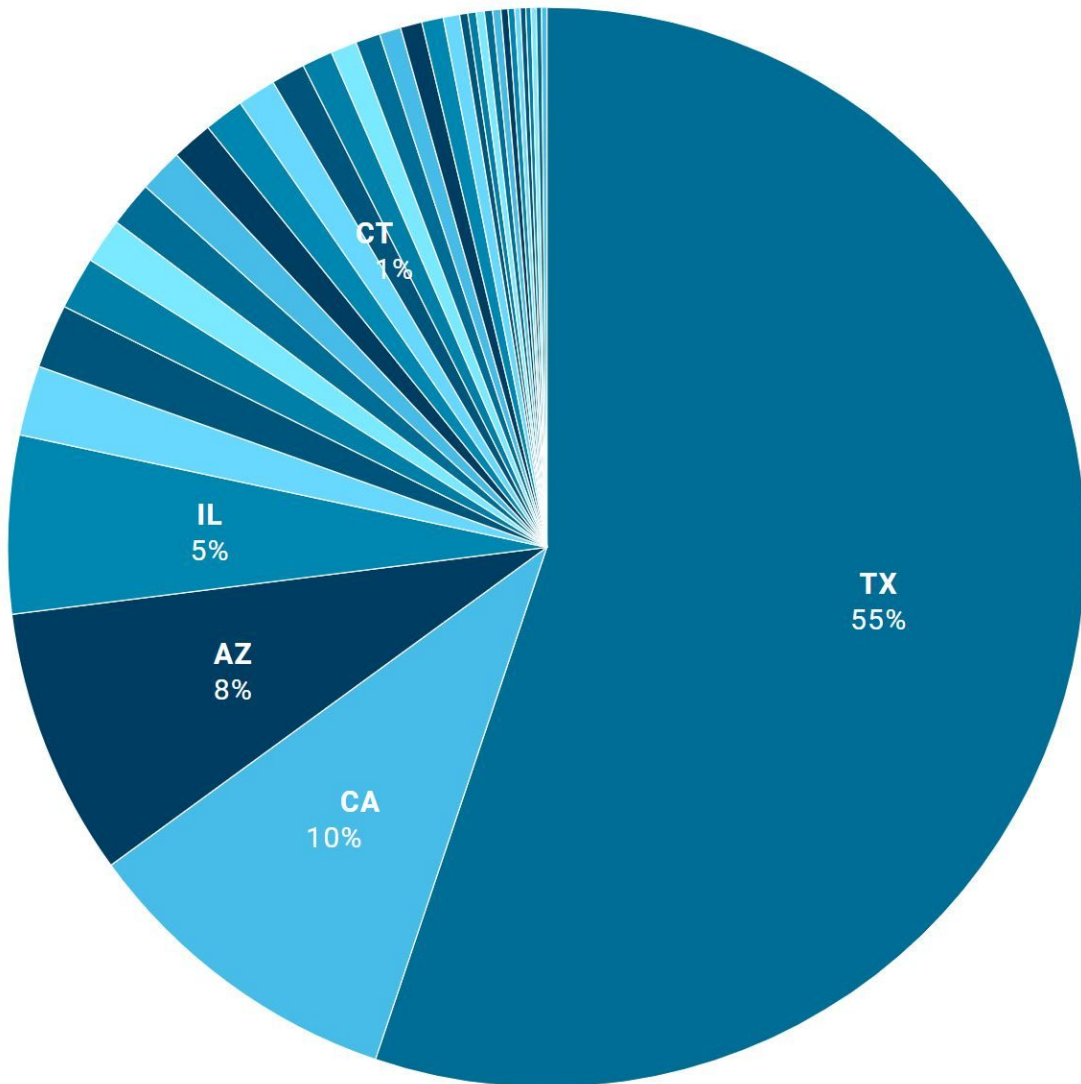
Buzz words





[Geographical Distribution of Jobs]

TX CA AZ IL NY WA NC FL VA MA NJ MN
GA CT IN OH PA OR MD MI LA NE IA RI
ME NH AK NV AL NM KY WI VT TN



5. Inferences

- FinTech industry shows an increased inclination towards hiring Information Technology followed by Financial Consultants and Customer Service technicians.
- South-eastern states and New England states have most number of job openings.