Glassdoor Job Postings: Data Science

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Motivating Question

What are the best options or recommendations to find a job in the data science field?

Data

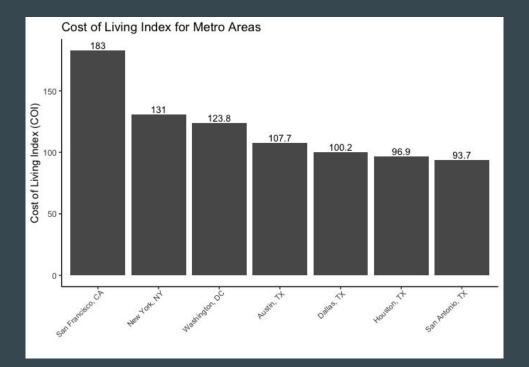
- Sources:
 - o Glassdoor
 - o Google Maps API
 - Advisorsmith
- Data Collection:
 - Search: "Data Scientist"
 - Locations: San Francisco, New York,Washington D.C., Texas

- Processing:
 - Combine data sets
 - Missing Values
 - Mislabeled Values
 - Feature Engineering
- Final Data Set:
 - o 3,287 observations of 28 variables

city	s	state	job_title	industry ‡	company \$	min_salary ‡	max_salary ‡	rating ‡
Maspeth		NY	Diesel Mechanic	Construction, Repair & Ma	Kingdom Associates	46298	55893	3.5
New York		NY	Principal, Sr. Consultant - Creative Te	Telecommunications	TEECOM	64829	104769	4.1
San Francisco		CA	Senior Data Scientist – Underwriting	Business Services	Faire	151875	170407	4.3
San Francisco		CA	Data Scientist	Government	GovTech	78594	147225	3.6
San Francisco		CA	Data Scientist	Information Technology	Triplebyte	145000	225000	3.6
San Francisco		CA	Data Scientist	Information Technology	Notion Labs	105765	142959	5.0
San Francisco		CA	Staff Machine Learning Engineer	Information Technology	Tapjoy	137705	224163	3.5
San Francisco		CA	Senior Data Scientist	Information Technology	Autodesk	163578	182543	4.0

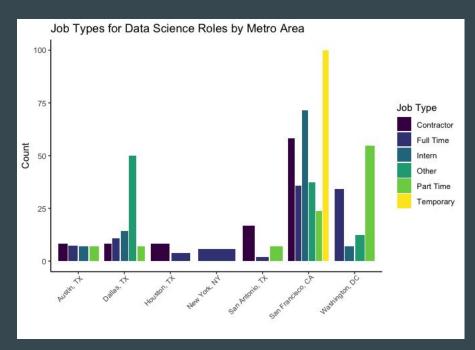
Feature Engineering

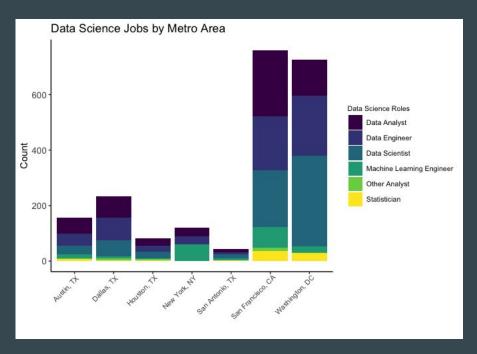
- Metro Area Feature
- Scaled Salary Feature:
 - Scaled_salary = salary/(COI/100)
- Job Category Feature



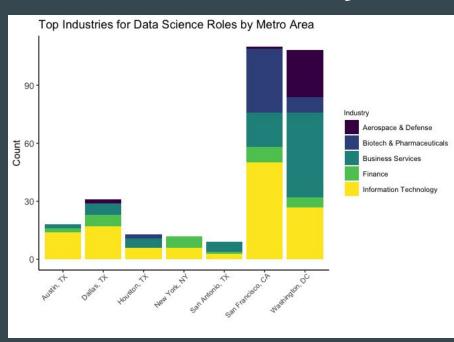
Job Category Location	Data Analyst	Data Engineer	Data Scientist	Machine Learning Engineer	Other Analyst	Statistician	Location Total
Austin, TX	57	44	31	13	3	8	156
Dallas, TX	76	83	56	9	6	3	233
Houston, TX	26	20	26	2	5	2	81
New York, NY	30	30	0	60	0	0	120
San Antonio, TX	12	7	15	8	0	2	44
San Francisco, CA	238	194	205	74	13	36	760
Washington, DC	130	214	327	24	1	29	725
Job Category Total	569	592	660	190	28	80	2119

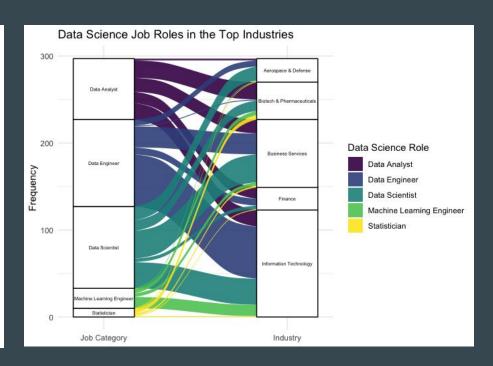
EDA Results - Data Science Roles



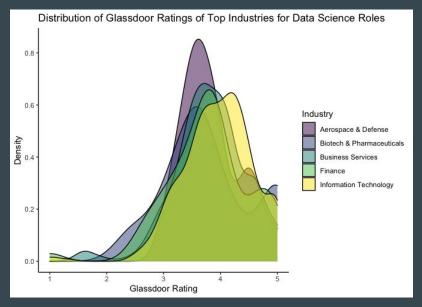


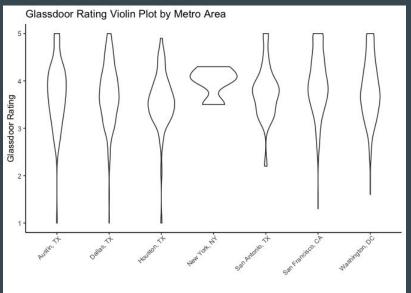
EDA Results - Industry



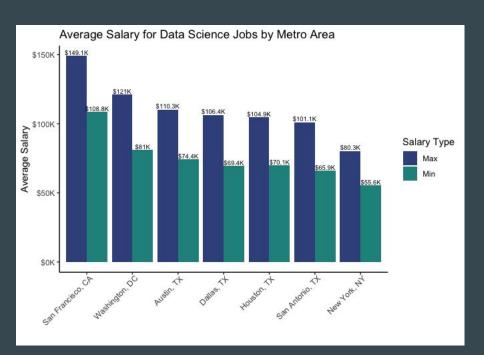


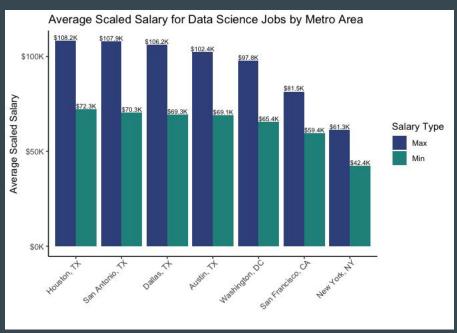
EDA Results - Glassdoor Rating



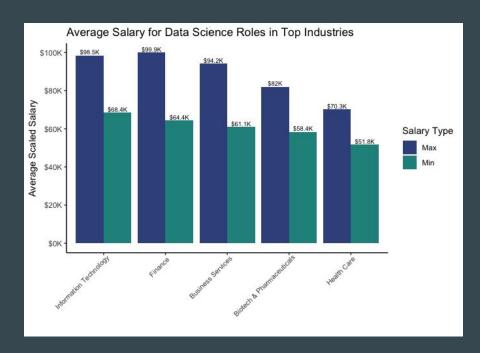


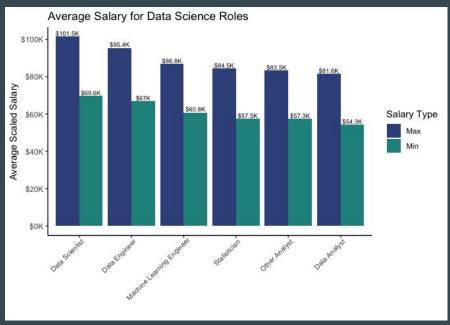
EDA Results - Salary



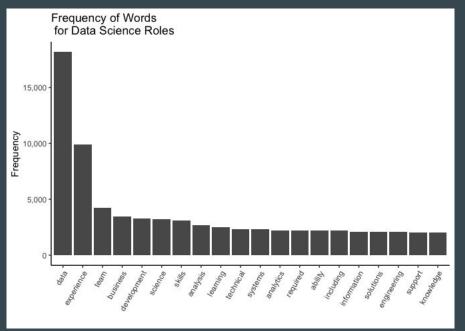


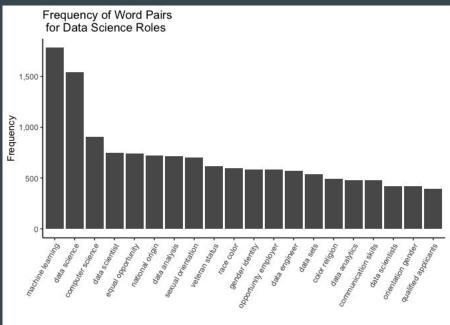
EDA Results - Salary (Cont.)





Text Analysis





Conclusion

This project is meant to help candidates looking for a career in the data science field. From choosing the right industry and searching for data science related jobs, this analysis is aimed to make the job searching process easier.

- Location SF and DC
- Job categories Data Analyst, Data Engineer, Data Scientist
- Industry Information Technology

Limitations, Improvements, and Next Steps

Data collection issues

Scope of included locations

Nature of company ratings