The Most Affordable Destinations for Data Scientists

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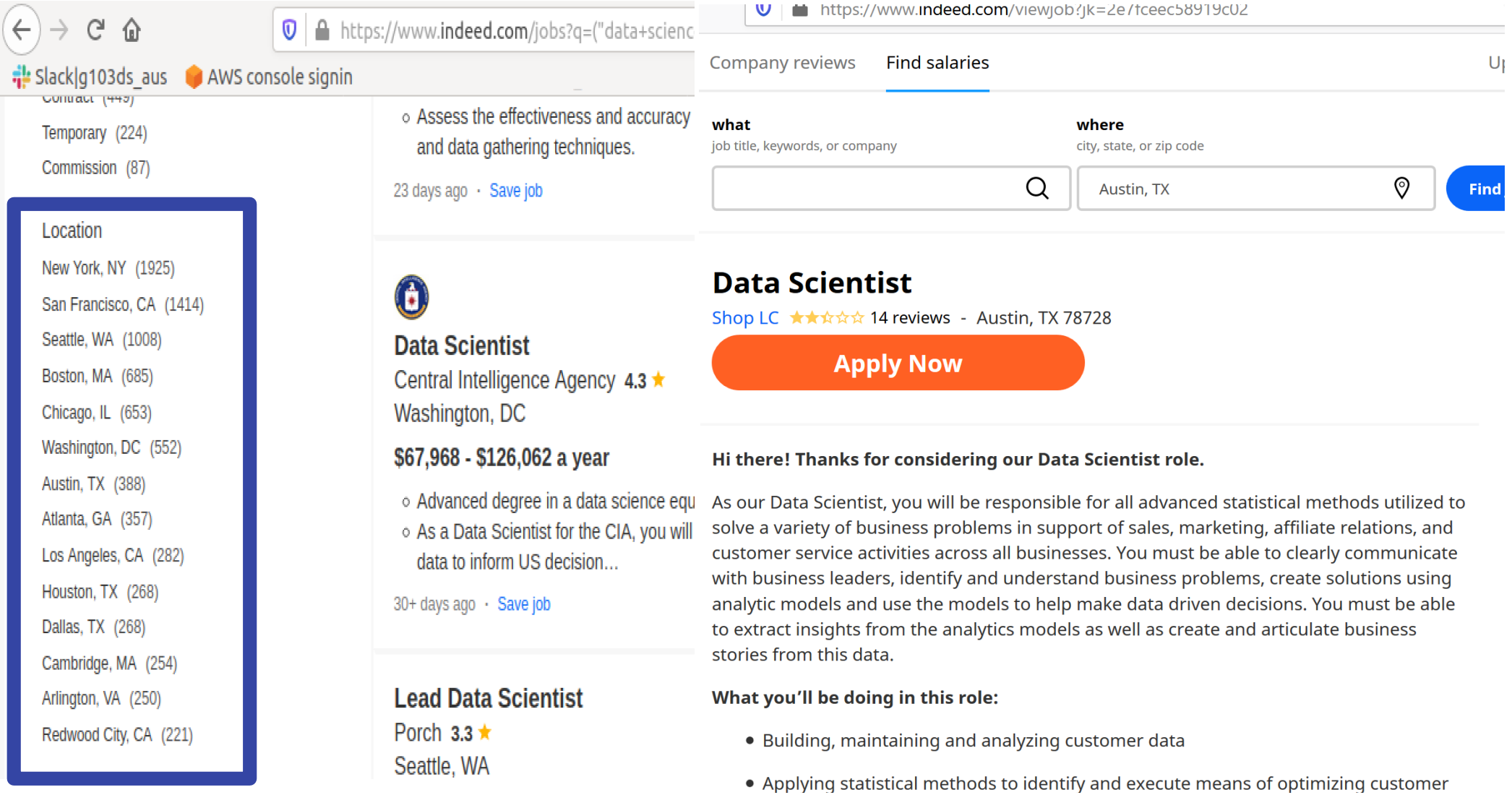
1/10/20

Overview

TOOLS	DATA
EC2 Web scraper BeautifulSoup parser Postgres SQL Python matplot stats	indeed.com areavibes.com

Data source: Popular Cities on Indeed



Data source: Living Cost on Areavibes

What's considered: groceries, housing, utilities, transportation, goods & services and health care

What's not considered: housing price & tax,

Austin, TX Cost Of Living

Follow

Livability | Real Estate | Rentals | Neighborhoods | Demographics | Best Places

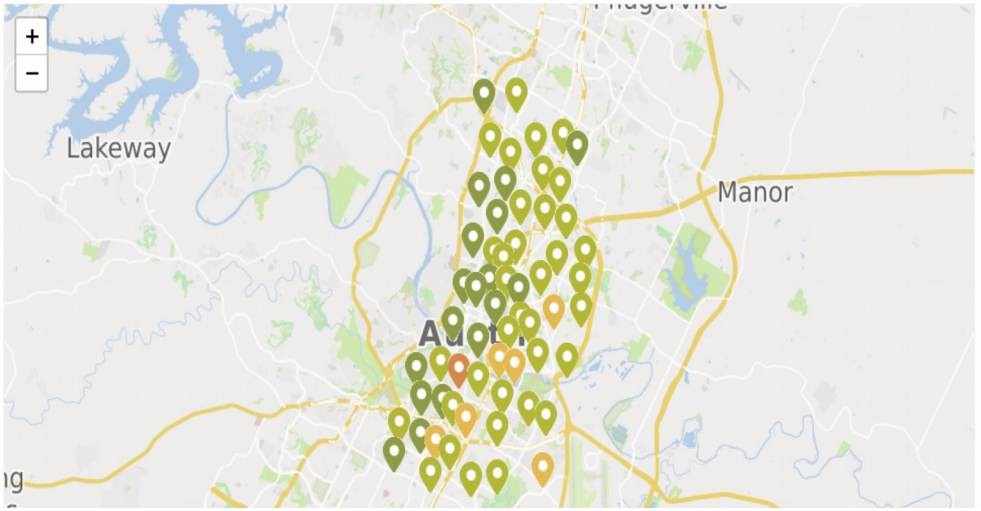
Livability	Amenities	Cost of Living	Crime	Employment	Housing	Schools	Weather
83	A+	D	D-	C+	B+	A+	B+

Austin Cost Of Living Index

Index	Austin	Texas	National
Cost of living index	109	91	100

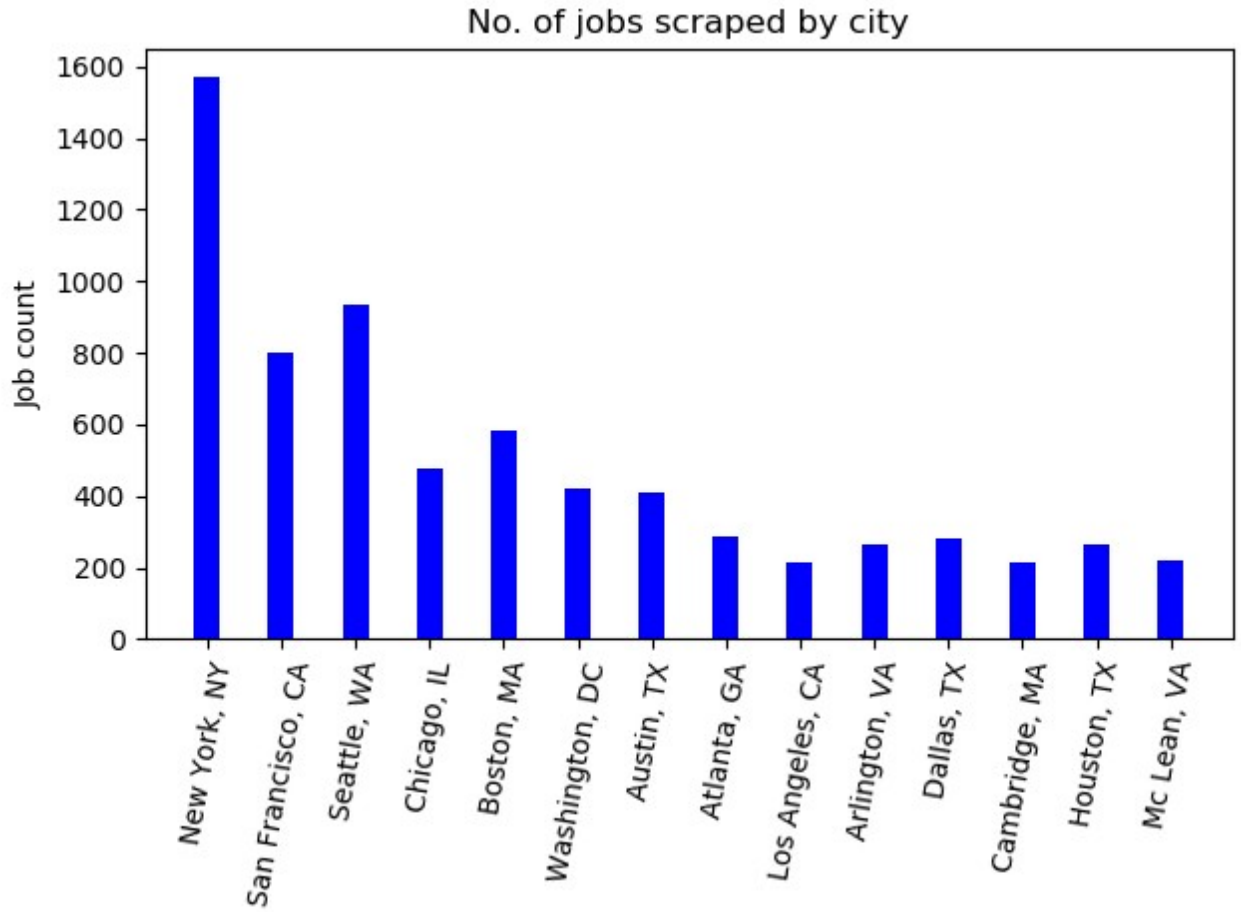
Index	Austin	Texas	National
Goods & Services index	104	95	100

Austin Neighborhoods Map

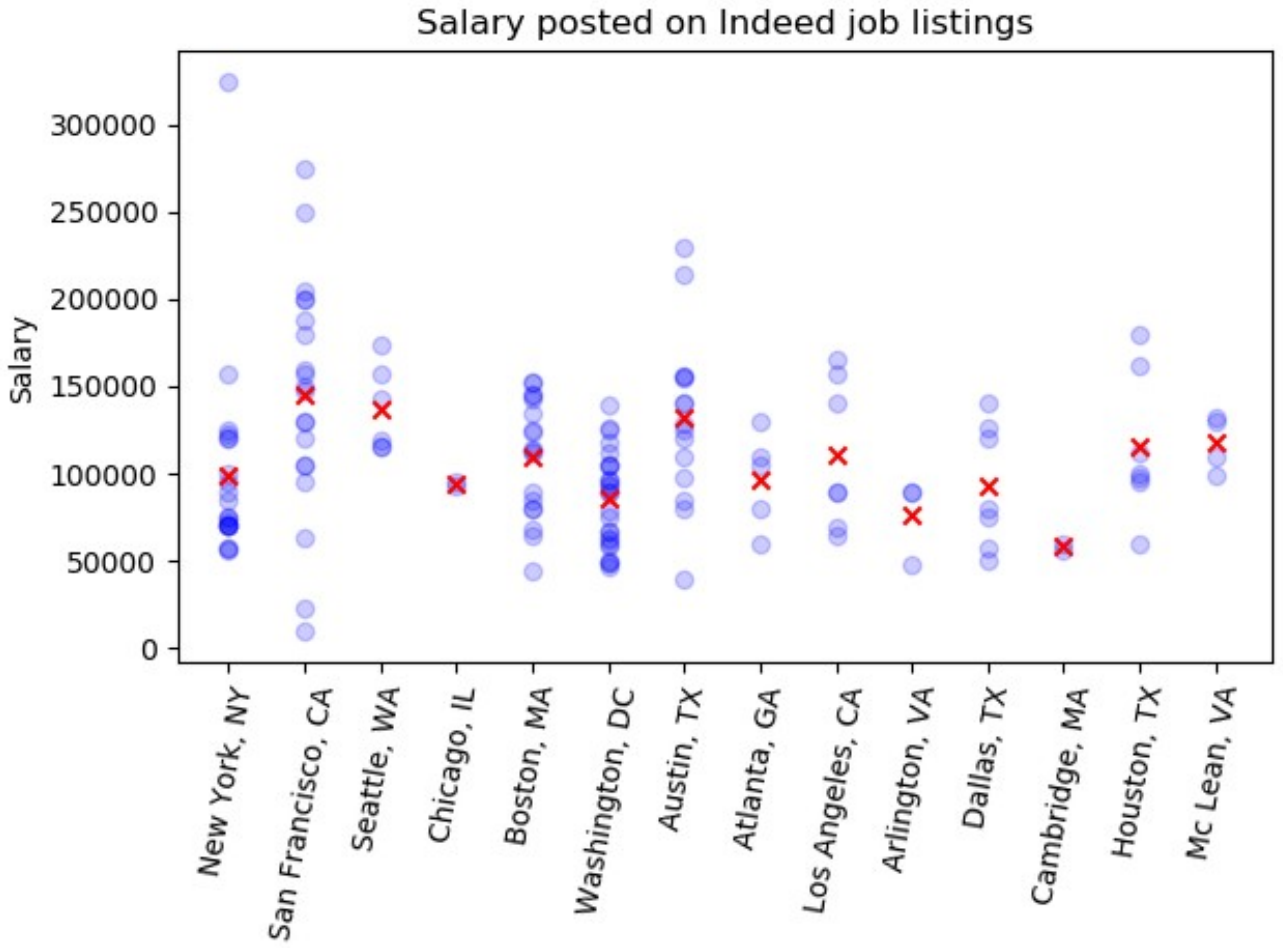


Source: The Austin, TX cost of living data displayed above is derived from the Council for Community and Economic Research (C2ER) for 2019.

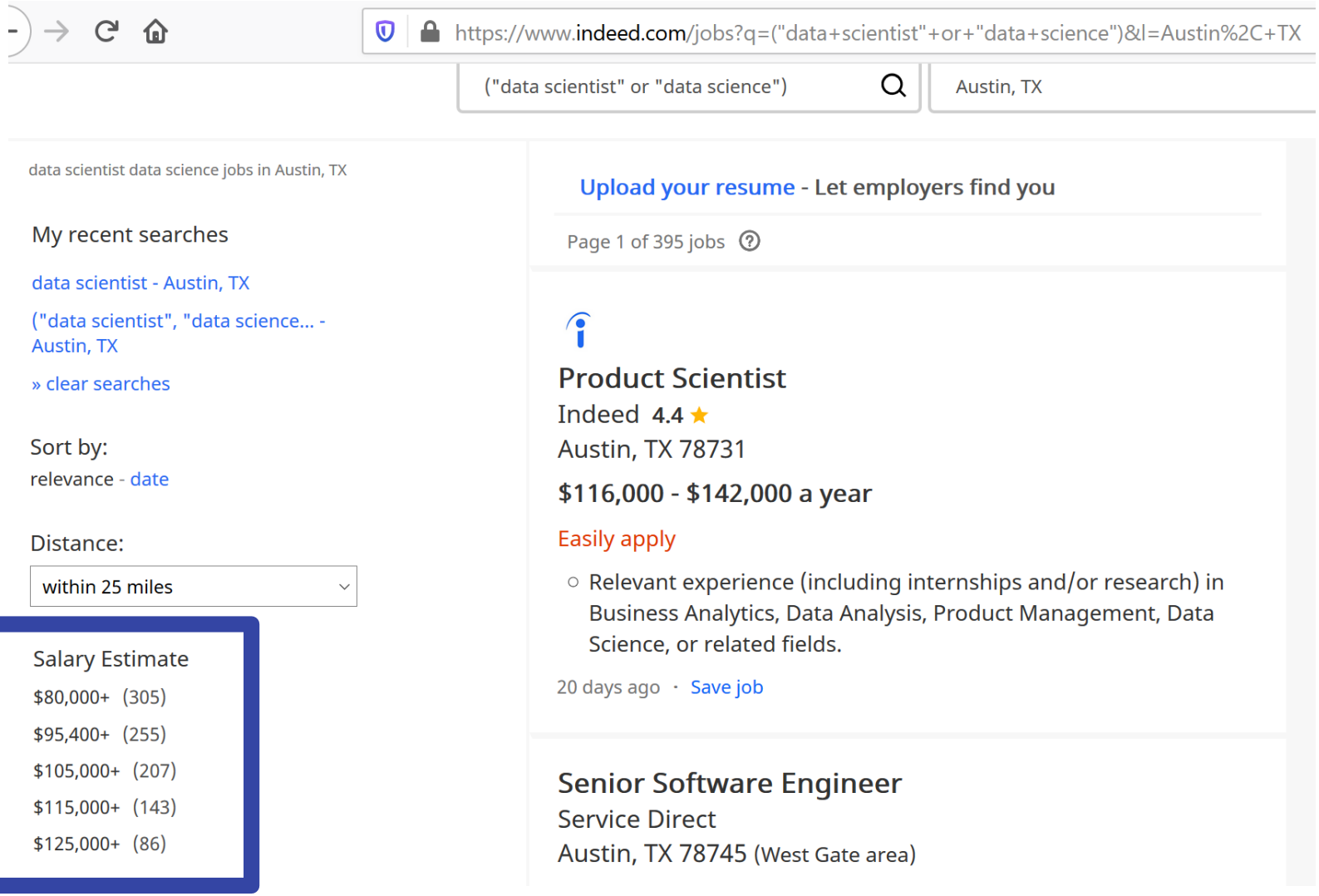
Data source: Indeed Job Listing



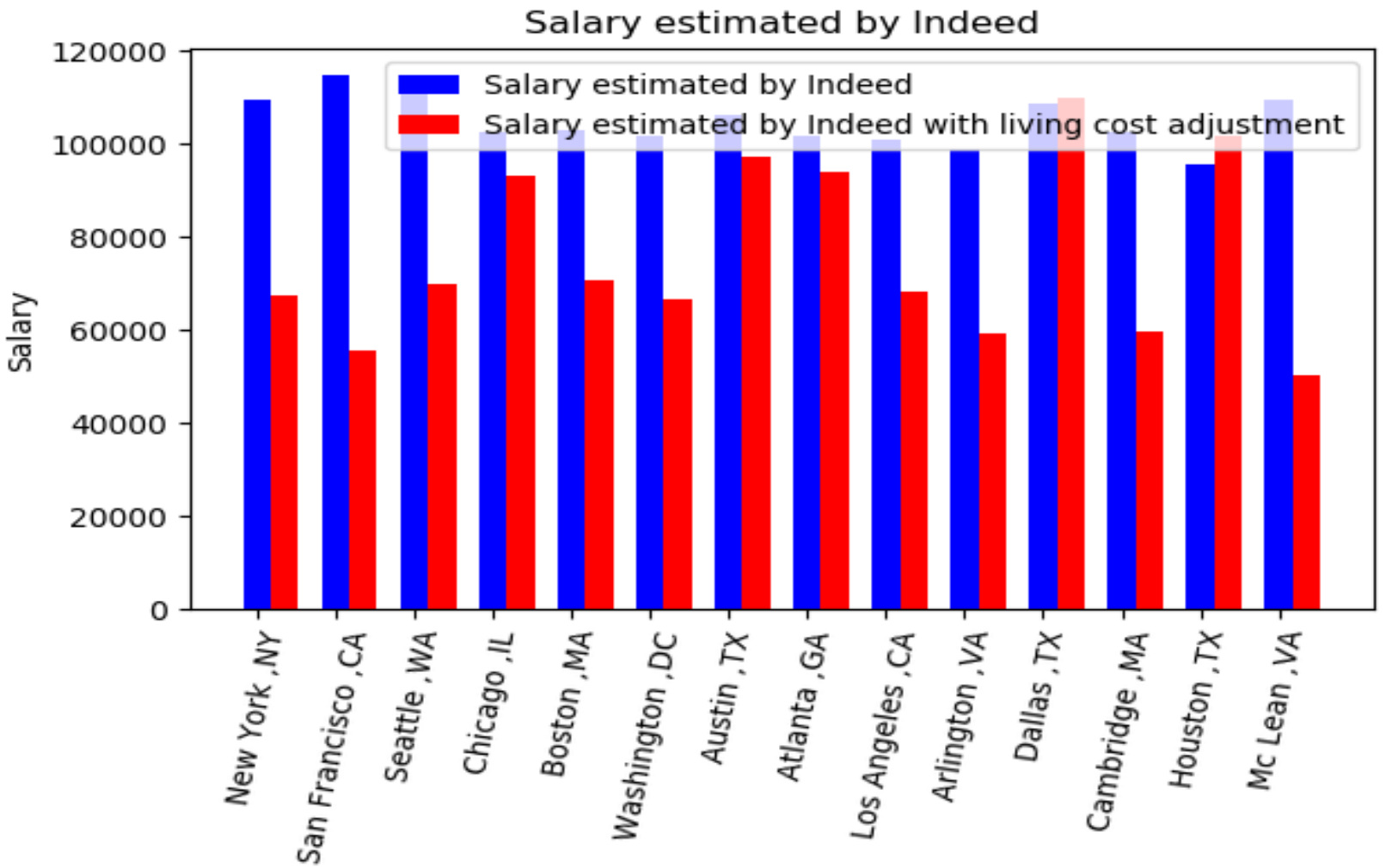
Challenge: Sparse Data



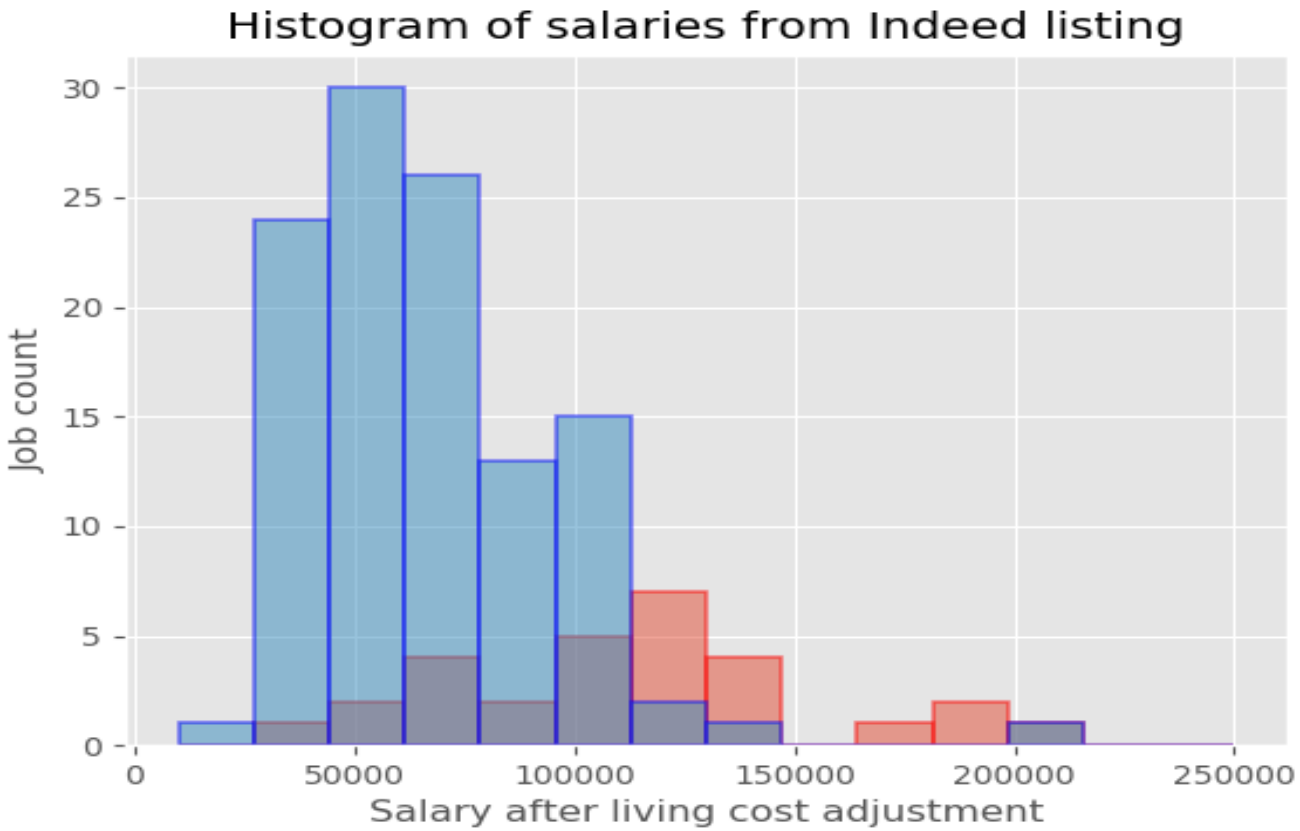
Additional source: Indeed



EDA: Combining Salary and Living Cost



Hypothesis testing: TX vs Outside



H0: TX = Non_TX Ha: TX> Non_TX one tail t test p value= 1e-06
H0: TX- Non_TX= 34k Ha: TX-Non_TX > 34K One tail t test p value = 0.041
95% confidence interval for difference of mean = (30950, 65105)

Conclusion and future study

Conclusion:

Popular destinations for data scientists in Texas are more affordable than those outside Texas. (Ask for 34k more for the similar position)

Future study:

1) Consider other factors like weather, crime, amenities and etc.

2) Analyzing the detailed description to find correlation within and between qualifications and the types of industries.