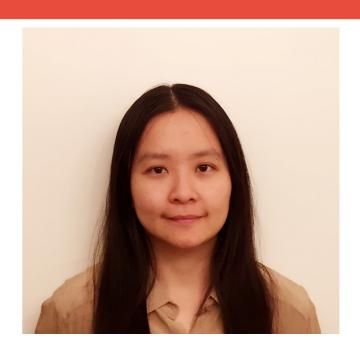
# The Most Affordable Destinations for Data Scientists

Xiao Huang

1/10/20



#### Overview

#### **TOOLS**

EC2 Web scraper

BeautifulSoup parser

Postgres SQL

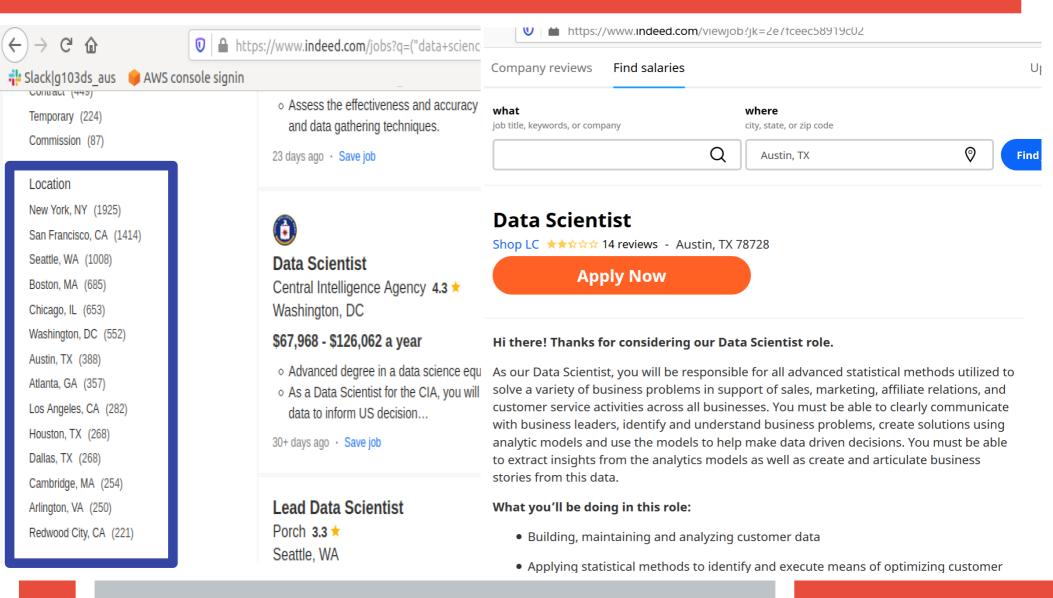
Python matplot stats

#### **DATA**

indeed.com

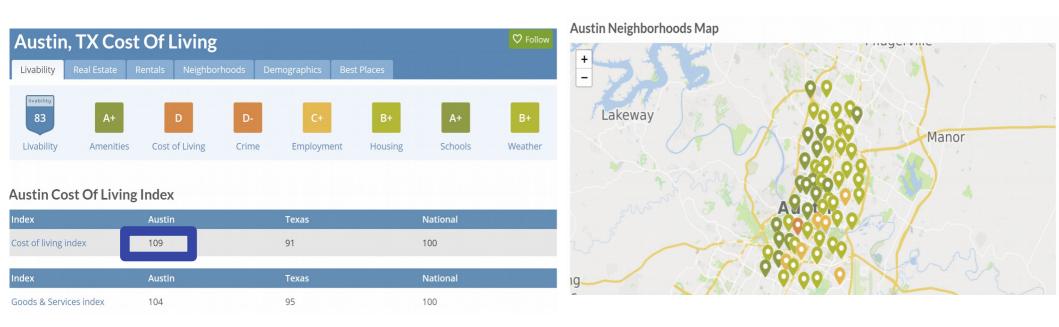
areavibes.com

# Data source: Popular Cities on Indeed



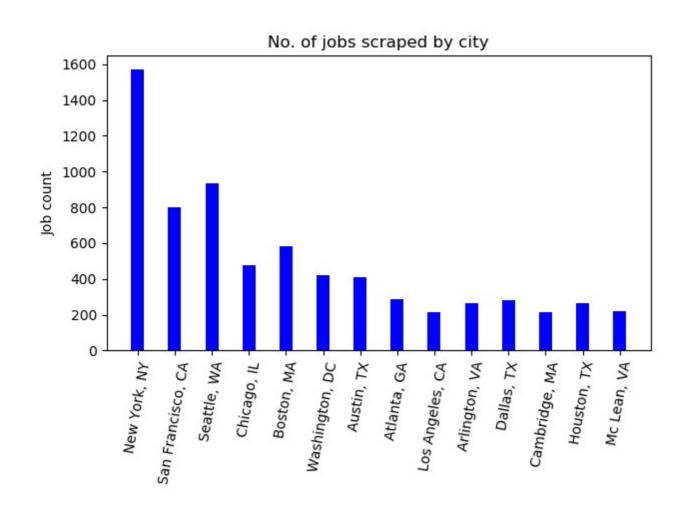
#### **Data source: Living Cost on Areavibes**

What's considered: groceries, housing, utilities, transportation, goods & services and health care What's not considered: tax

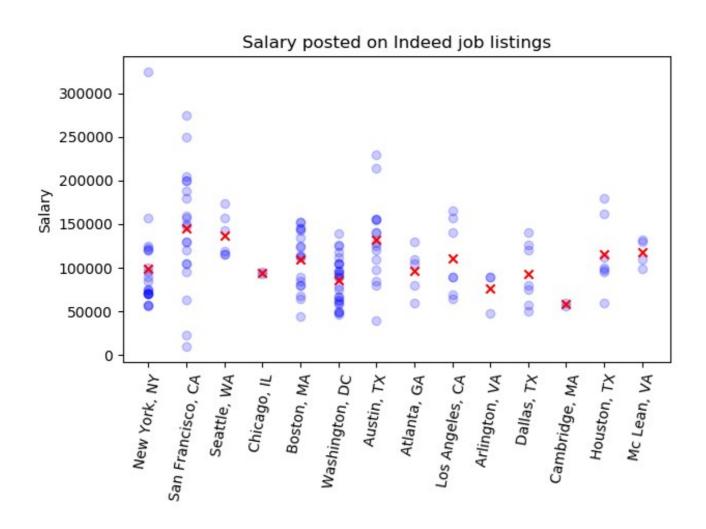


Source: The Austin, TX cost of living data displayed above is derived from the Council for Community and Economic Research (C2ER) for 2019.

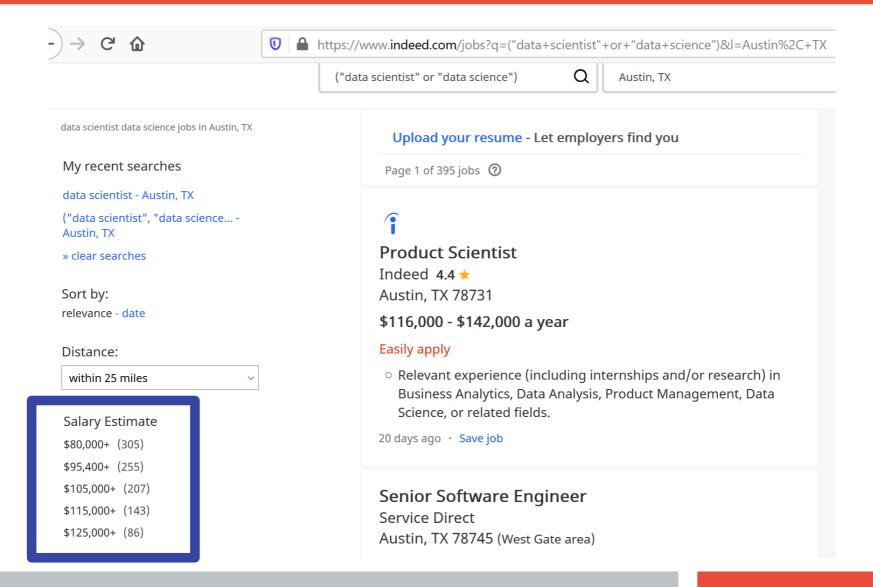
#### Data source: Indeed Job Listing



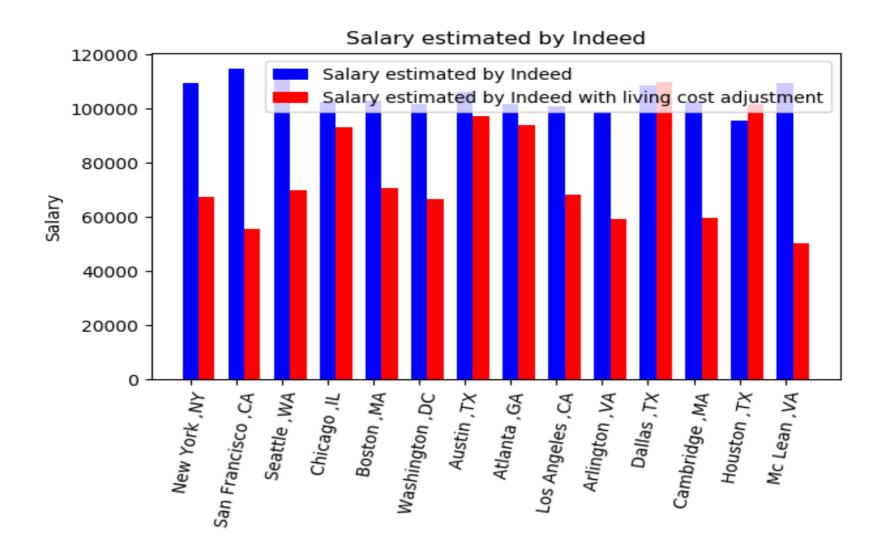
# **Challenge: Sparse Data**



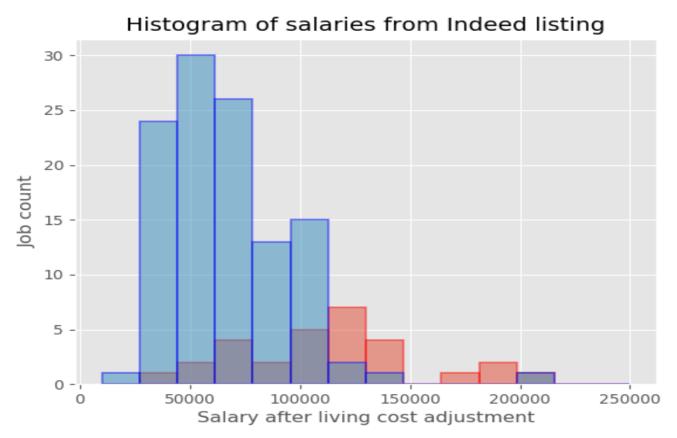
#### **Additional source: Indeed**



# **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.