GOAL

▸ Given a user-inputted county, predict salary and provide information about the job market in that area

```
[14:58 ~/Projects/Intuit python3 Predictor.py
Enter a county name: San Francisco

Average salary is : $115995.479257

Top rated employers in this area:
LiveRamp: 4.7
AppDynamics: 4.6
Facebook: 4.5
Guidewire: 4.4
Google: 4.4
Square: 4.3
Airbnb: 4.3
Uber: 4.2
Salesforce: 4.2
Dropbox: 4.2
```

HOW WE GOT OUR INFORMATION

▸ Census API, Census data downloads (CSV files)

▸ Glassdoor API

▸ Scraping from other site

DIFFICULTIES OF DATA

▸ Software developer density was between 3-25,000

▸ Had to normalize much of our density and population data, as population growth is exponential

▸ Some APIs blocked access to prevent botting

WHAT'S IN THE ALGORITHM

▸ Density of software developers per square mile of land

▸ Population

▸ Distance from center of the US

▸ Average salary of state

TEXT

LiveRamp: 4.7
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Square: 4.3
Airbnb: 4.3
Uber: 4.2
Salesforce: 4.2
Dropbox: 4.2
Pinterest: 4.1
Twitter: 4
Autodesk: 3.9
Splunk: 3.9
Trulia: 3.9
Quantcast: 3.9
Workday: 3.8
Electronic Arts: 3.8
Informatica: 3.8
Intuit: 3.8
Accenture: 3.7
Evernote: 3.7
Sun Microsystems: 3.6
Zynga: 3.5
Yelp: 3.5
SolarCity: 3.5
Oracle: 3.4
Charles Schwab: 3.4
IBM: 3.3
MobiTV: 3.3
Gracenote: 3.3
Walmart eCommerce: 3.2
StubHub: 3.1
GE Digital: 3
E*TRADE Financial: 2.9
EFI: 2.9
Visa Inc.: 2.8
Blackhawk Network: 2.8
Nextag: 2.7
Rearden Commerce: 2.3

Top rated employers in this area:
Facebook: 4.5
Google: 4.4
AppNexus: 4.3
MongoDB: 4.2
Knewton: 4.1
Ladders: 4
Microsoft: 3.9
Morgan Stanley: 3.7
Goldman Sachs: 3.7
Accenture: 3.7
Ericsson—Worldwide: 3.7
Bloomberg L.P.: 3.6
FactSet: 3.6
Cognizant Technology Solutions: 3.6
Commvault: 3.6
Misys: 3.6
Zocdoc: 3.6
Thomson Reuters: 3.5
J.P. Morgan: 3.5
Verizon Wireless: 3.5
Infosys: 3.5
New York Times: 3.4
Citi: 3.4
Bank of America: 3.4
UBS: 3.4
Amazon.com: 3.4
Tata Consultancy Services: 3.4
Verizon: 3.4
AT&T: 3.4
IBM: 3.3
CA Technologies: 3.3
S&P Global Market Intelligence: 3.3
Barclays: 3.3
Audible: 3.2
Medidata Solutions: 3.2
Wipro: 3.2
Amplify: 3.1
IGATE: 3.1
IAC: 3.1
e—Business International: 3

RESULTS

San Francisco

Predicted: $115,995.48

Actual: $110,554

San Diego

Predicted: $95,443.30

Actual: $92,016

Ventura

Predicted: $89,235.85

Actual: $87,279

Houston

Predicted: $68,313.08

Actual: $75,053

St. Louis

Predicted: $87,469.17

Actual: $75,000

Somserset

Predicted: $95,705.28

Actual: $94,946

DATA VALIDATION

▸ Payscale, Glassdoor

▸ College surveys

▸ Self-reported employer data (mostly public jobs)

EXTRA FEATURES

▸ Glassdoor data - get ratings, reviews, etc

```
params = {
    'v': "1",
    'format': 'json',
    't.p': '94453',
    't.k': 'eJHCDB4oK3a',
    'pn': 1,
    'ps': "100",
    'action': 'employers',
    'city': 'SanFrancisco,CA',
    'state':'',
    'q': 'Software',
    'userip': '136.152.142.39',
    'useragent': 'Mozilla/5.0'}
```

EXTRA FEATURES

▸ Any occupation, not just software development

▸ Cost of living calculator

▸ Include income/property/etc. taxes

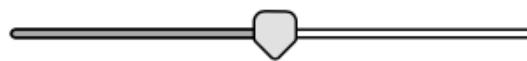▸ Add preferences for setting, demographics, etc.

Take control of your future.

🔑 *Make sure your finances are secure*

0 Years   20+ Years

⊙ Male

⊙ Female

| Occupation ▼ |

📍 | County ▼ |

Submit

☑ I Agree to Salary Predictor's Terms of Service

ℹ [Frequently asked questions](#)

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