

Data Jobs Landscape: **Market Insights and** **Opportunities**

D4E52 – Team 4





\$1,000,000,000 / year



Customer retention



Churn Rate



Data Scientist: The Sexiest Job of the 21st Century

Meet the people who can coax treasure out of messy, unstructured data. by Thomas H. Davenport and DJ Patil



INSIGHTS ▾

LATEST NEWS

MAGAZINES

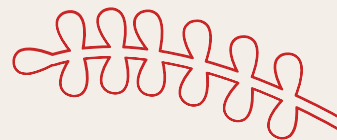
INDUSTRY ▾

GEOGRAPHIES ▾

Data Science Career is the hottest and most demanded topic in the market among the youth in 2022

Data science includes advanced analytics techniques and scientific principles to extract valuable information from data for business decision-making, strategic planning, and other uses. Data science uses complex

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Sexiest career ever!
Is it just a myth?

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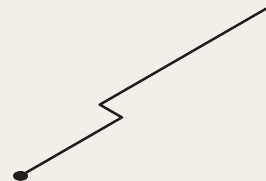
Data Insights

What did we find out from the dataset?

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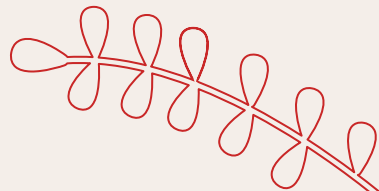
Take-home values for job seekers?





01 Objectives

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01. Objectives



● Data Job Landscape

Trends in Data Job Recruitment

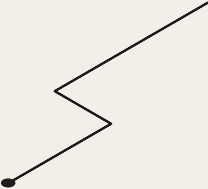
Top Industries

Top Employers

Top Skill requirement

● Insights for Job Seekers

Elements to take into consideration when Data Talents look for a new career jump

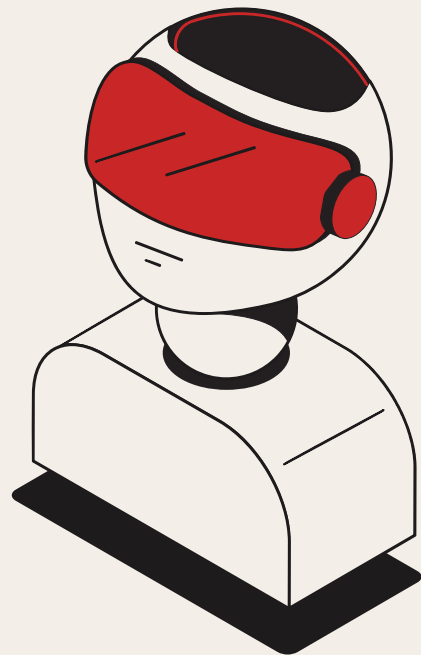


Dataset

3900 job listings for data-related positions in the
USA

- Hiring Company
- Job Title
- Job Level
- Salary Estimate
- Location
- Job Description

and more.



02. About the Dataset

#	Column	Non-Null Count	Dtype
0	Job Title	3909 non-null	object
1	Job Description	3909 non-null	object
2	Rating	3500 non-null	Float64
3	Company Name	3909 non-null	object
4	Headquarters	3669 non-null	object
5	Size	3680 non-null	object
6	Founded	2932 non-null	Int64
7	Type of ownership	3680 non-null	object
8	Industry	3909 non-null	object
9	Sector	3909 non-null	object
10	Easy Apply	3909 non-null	bool
11	Average Salary	3850 non-null	float64
12	Location City	3909 non-null	object
13	Location State	3909 non-null	object
14	Python Requirement	3909 non-null	object
15	SQL Requirement	3909 non-null	object
16	Scala Requirement	3909 non-null	object
17	Java Requirement	3909 non-null	object
18	C++ Requirement	3909 non-null	object
19	Job Level	3909 non-null	object

dtypes: Float64(1), Int64(1), bool(1), float64(1), object(16)

03. Approach

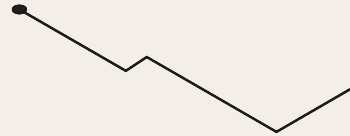
Descriptive Analytics

- Data Pre-processing
- Data Visualization
- Data Summary and Insights

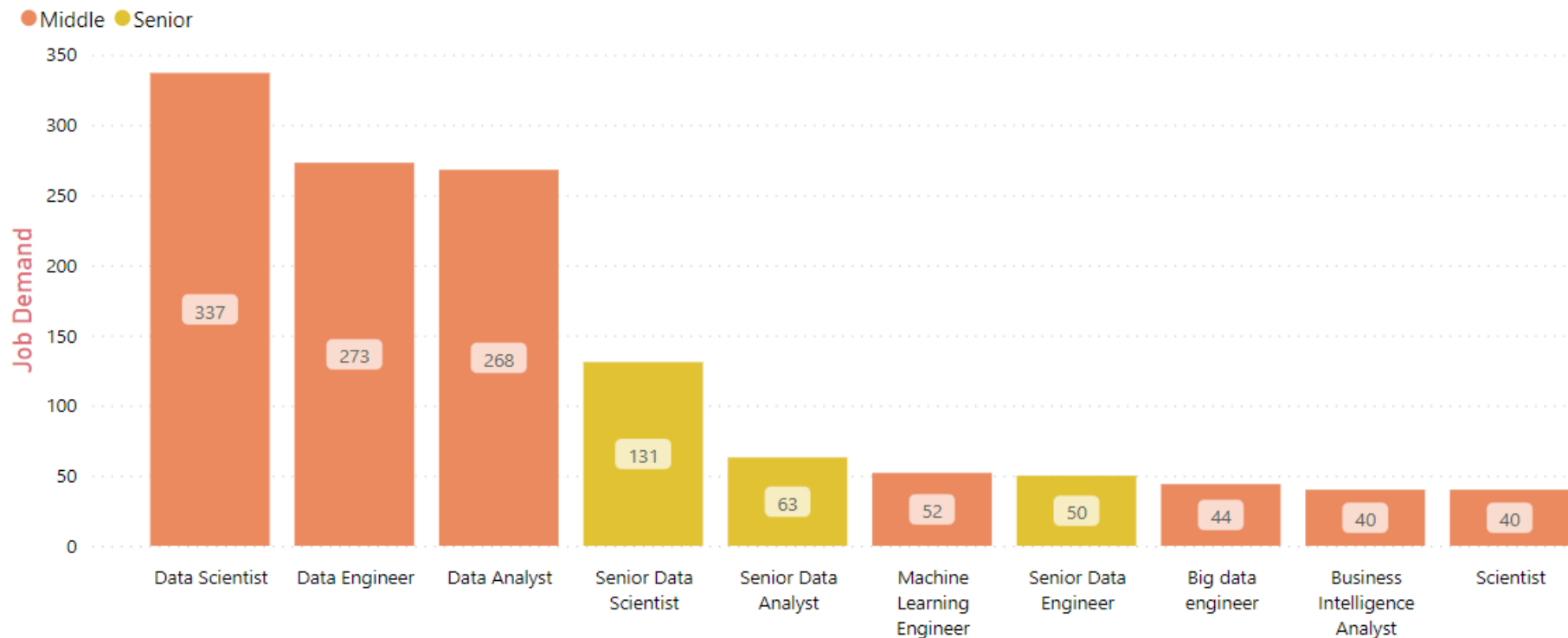




04. Data Insights

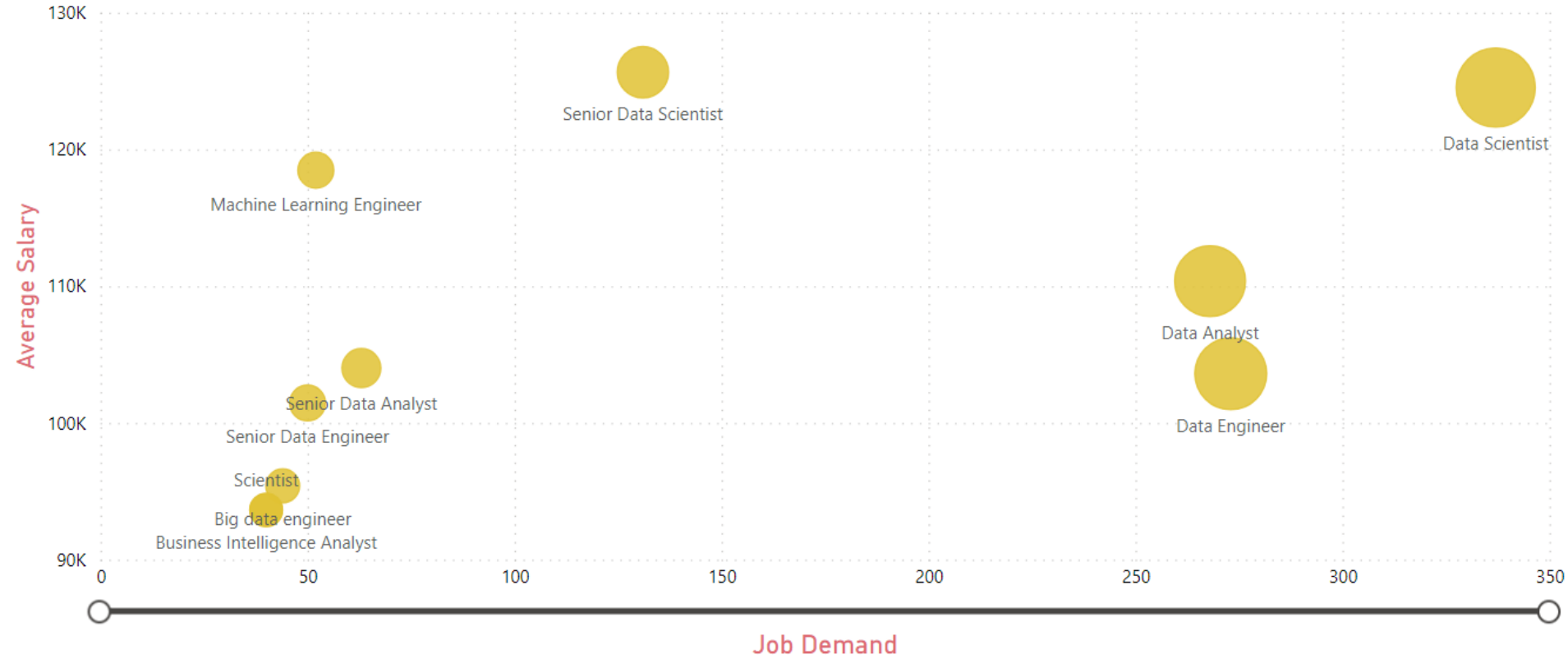


Job Demands for Data Talents



Extreme high demands for **Data Scientist, Data Engineer & Data Analyst** talents, mostly at **Middle to Senior Level**

Demands and Salary by Job Categories



Top-paid Jobs: **Data Scientist**, **Senior Data Scientist**, **Machine Learning Engineer**

Data Job Salary in comparison with other tech roles

Software engineer salary in United States

How much does a Software Engineer make in the United States?

Average base salary ?

\$114,826

Per year ▾

Location

Product owner salary in United States

How much does a Product Owner make in the United States?

Average base salary ?

\$107,288

Per year ▾

Location

Business analyst salary in United States

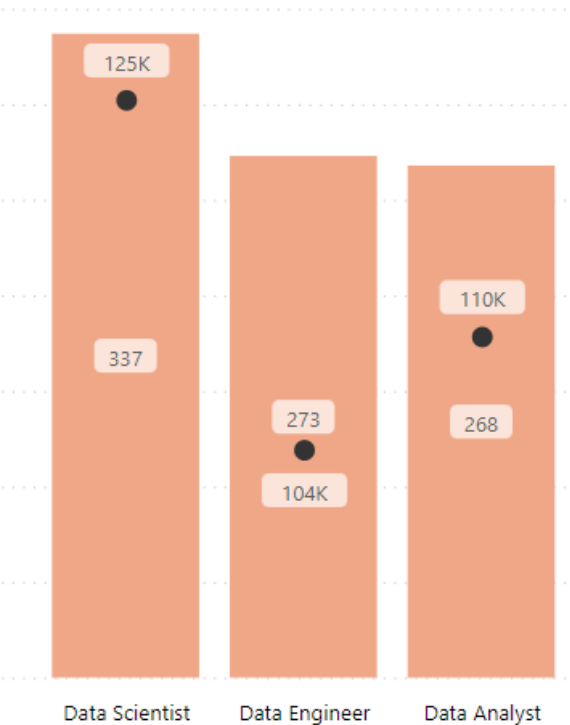
How much does a Business Analyst make in the United States?

Average base salary ?

\$84,115

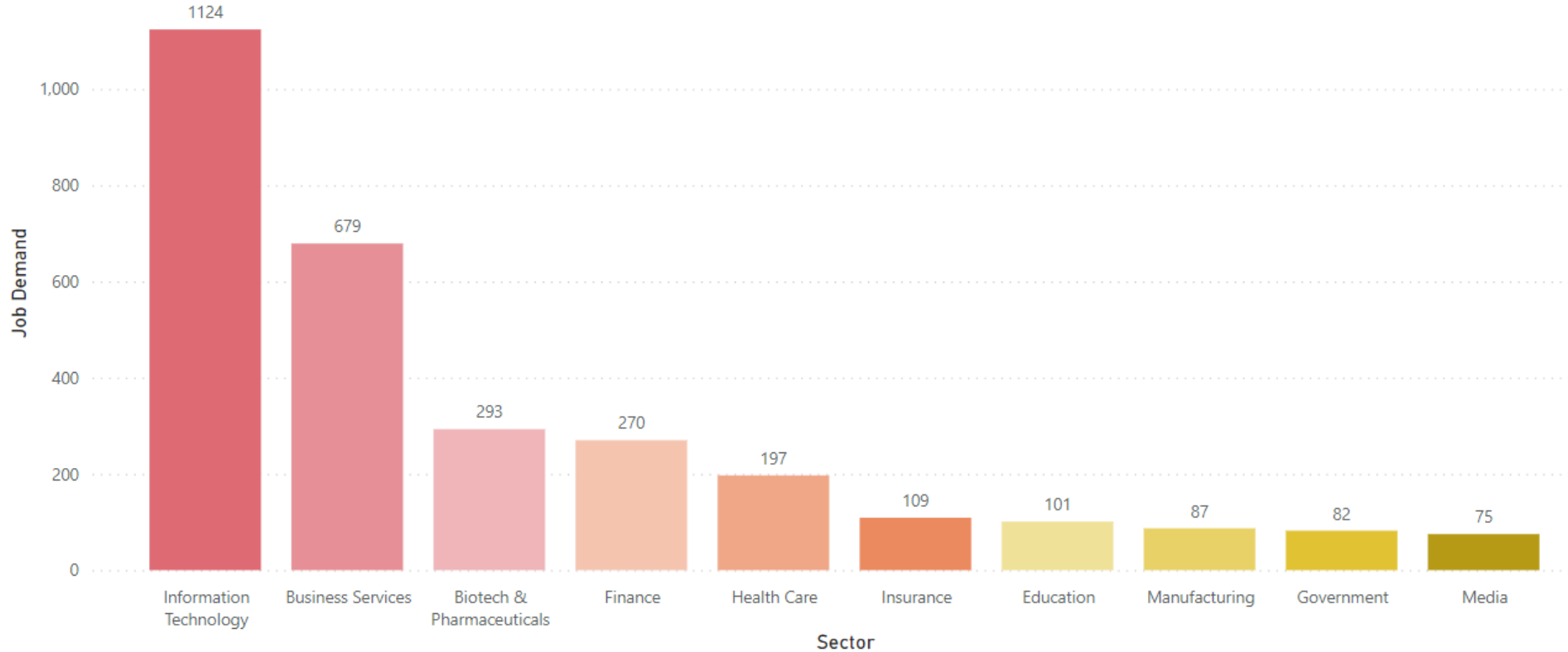
Per year ▾

Location



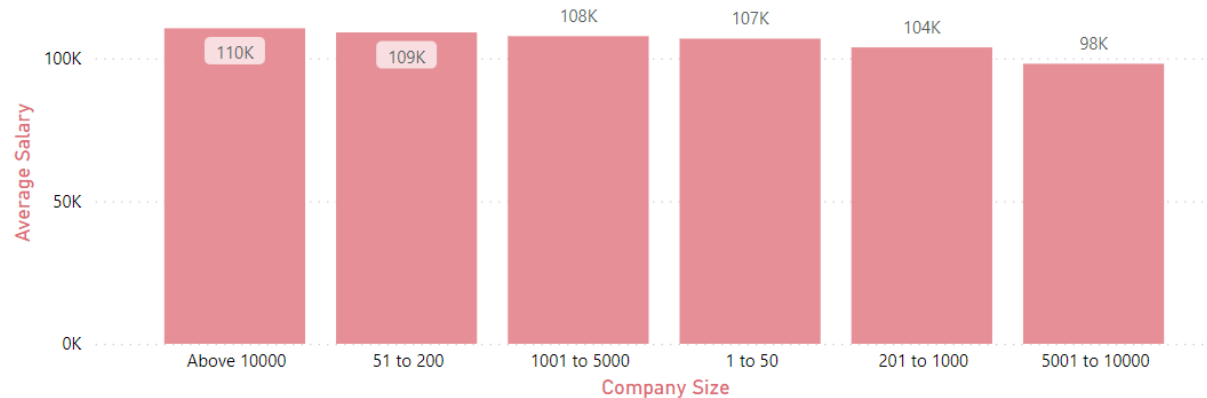
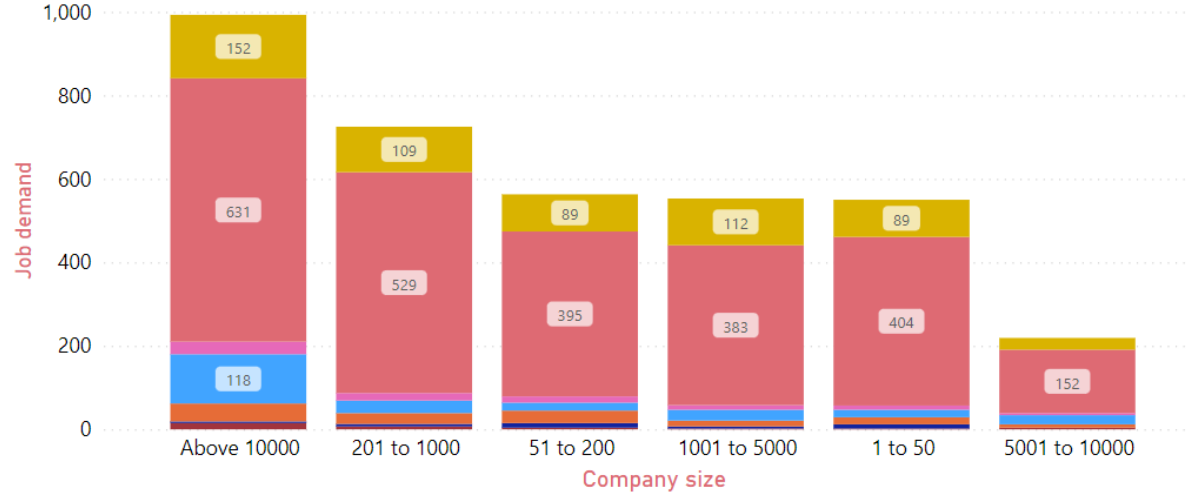
Job Demand by Sectors

Domain knowledge of an industry can indeed add significant value to the performance of data talents.



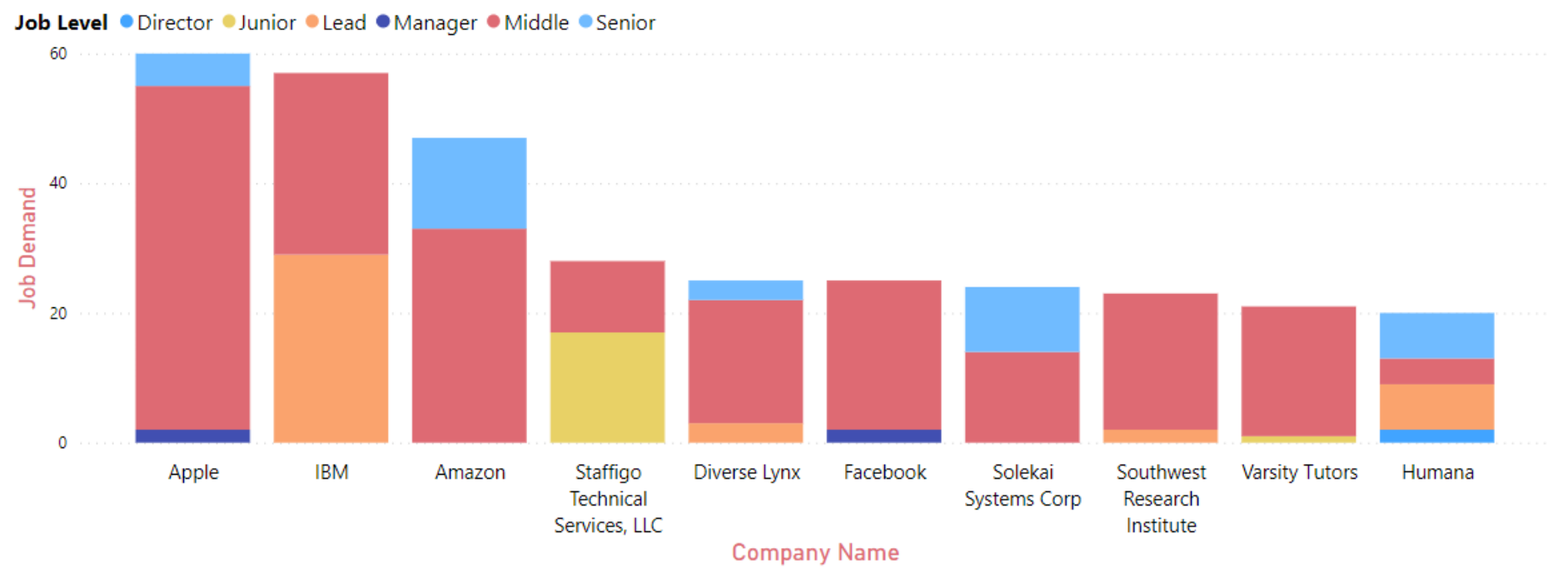
Job Demands and Salary by Company Size

Job Level ● Director ● Entry ● Junior ● Lead ● Manager ● Middle ● Senior



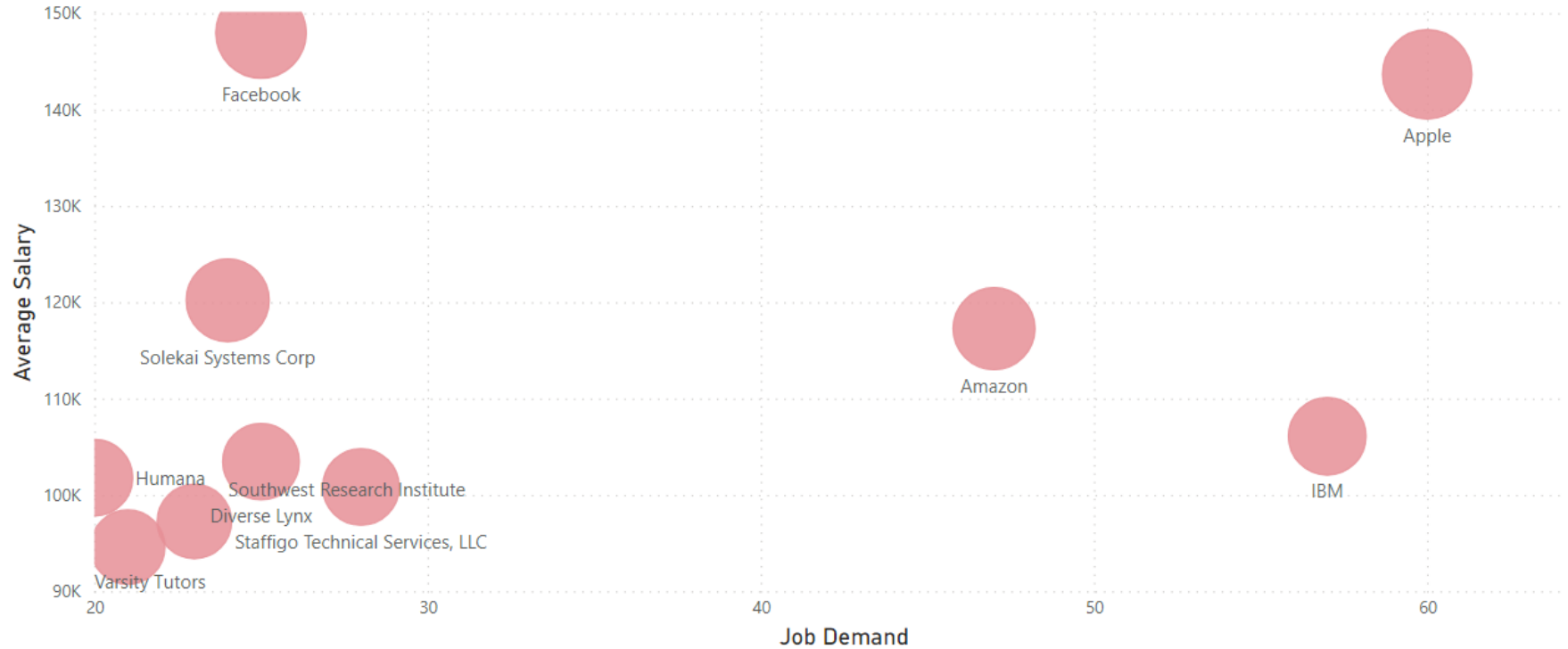
- Large firms (>10,000 ee) show great hiring demands across all levels.
- Salaries vary regardless of the size of the company.

Job Demand by Companies



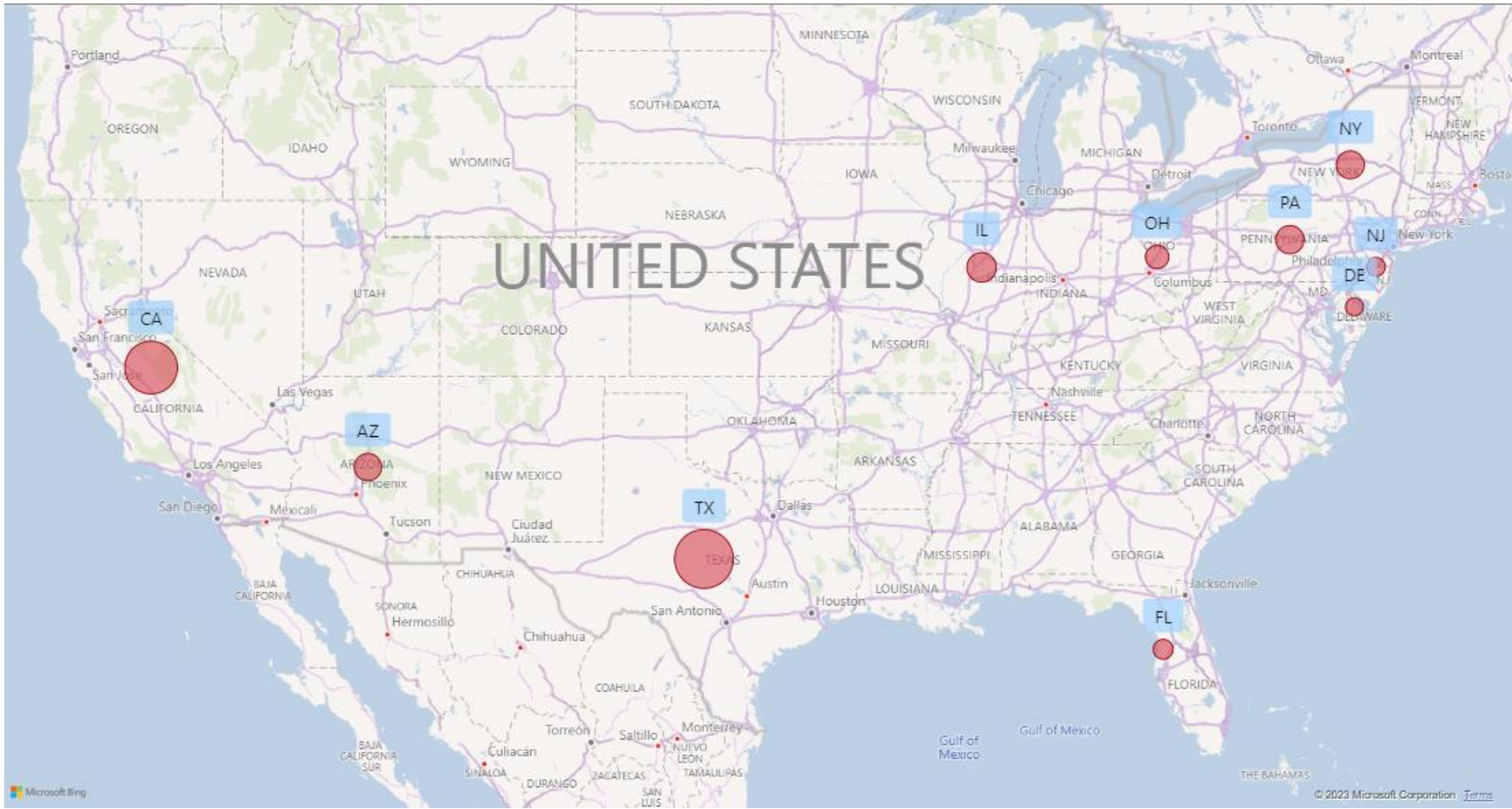
- Multiple job opportunities could be found at Apple, IBM & Amazon
- Staffigo is the most potential employer for junior-level candidates

Job Demand & Salary by Companies

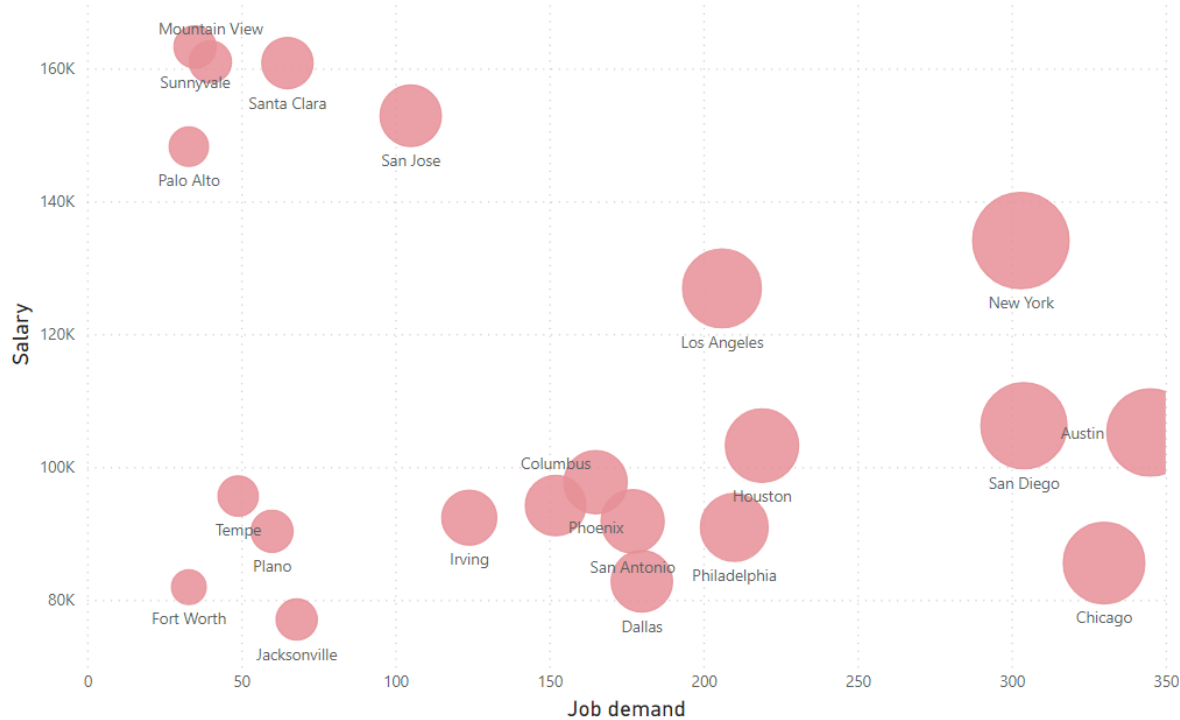


- **Apple** and **Facebook** remain to be Top Employers that offer competitive salaries

Job Demand by Location

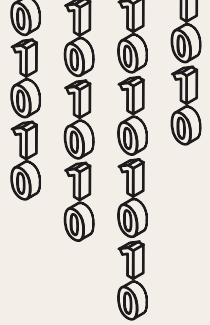


Job Demands and Salary by Location



- Austin, Chicago, San Diego, New York, and Houston show great demand for data talent at all levels.
- There is an extremely competitive market in San Jose, Santa Clara, Mountain View, and Sunnyvale (California).

Job Requirement



Tech skills

Clean & manipulate large datasets



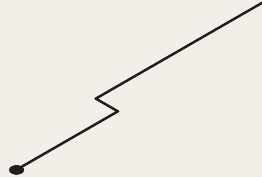
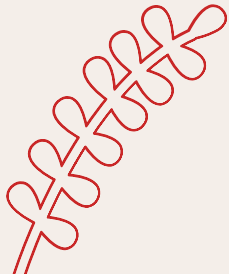
Statistical & Analytical Thinking

Identify patterns, trends & extract insights



Domain Knowledge

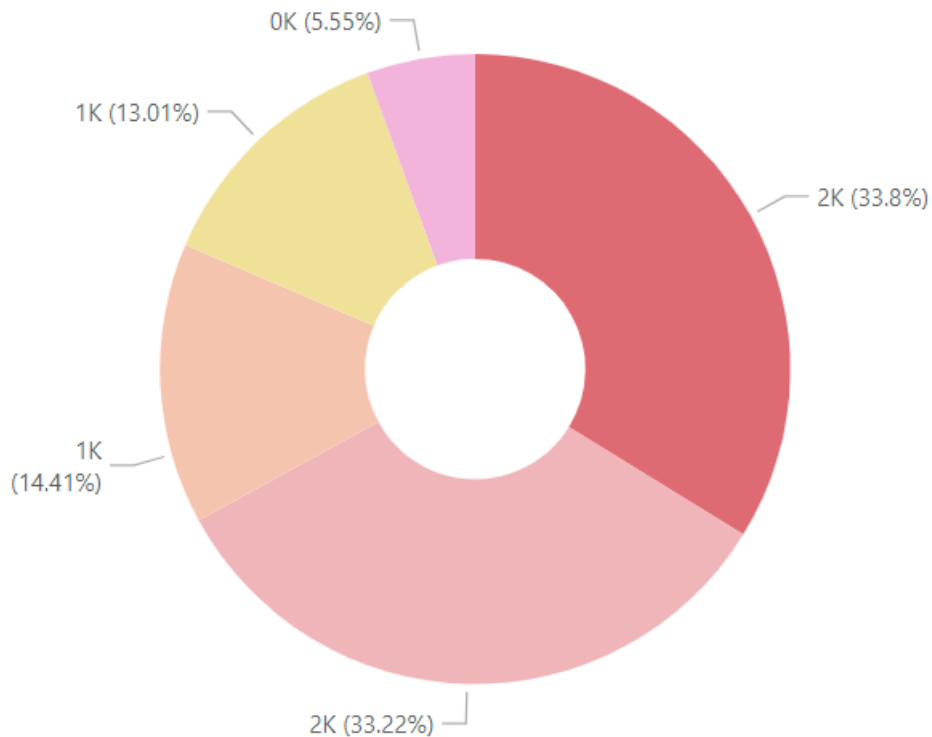
Allow for context-specific analysis and insights



Skill Requirement

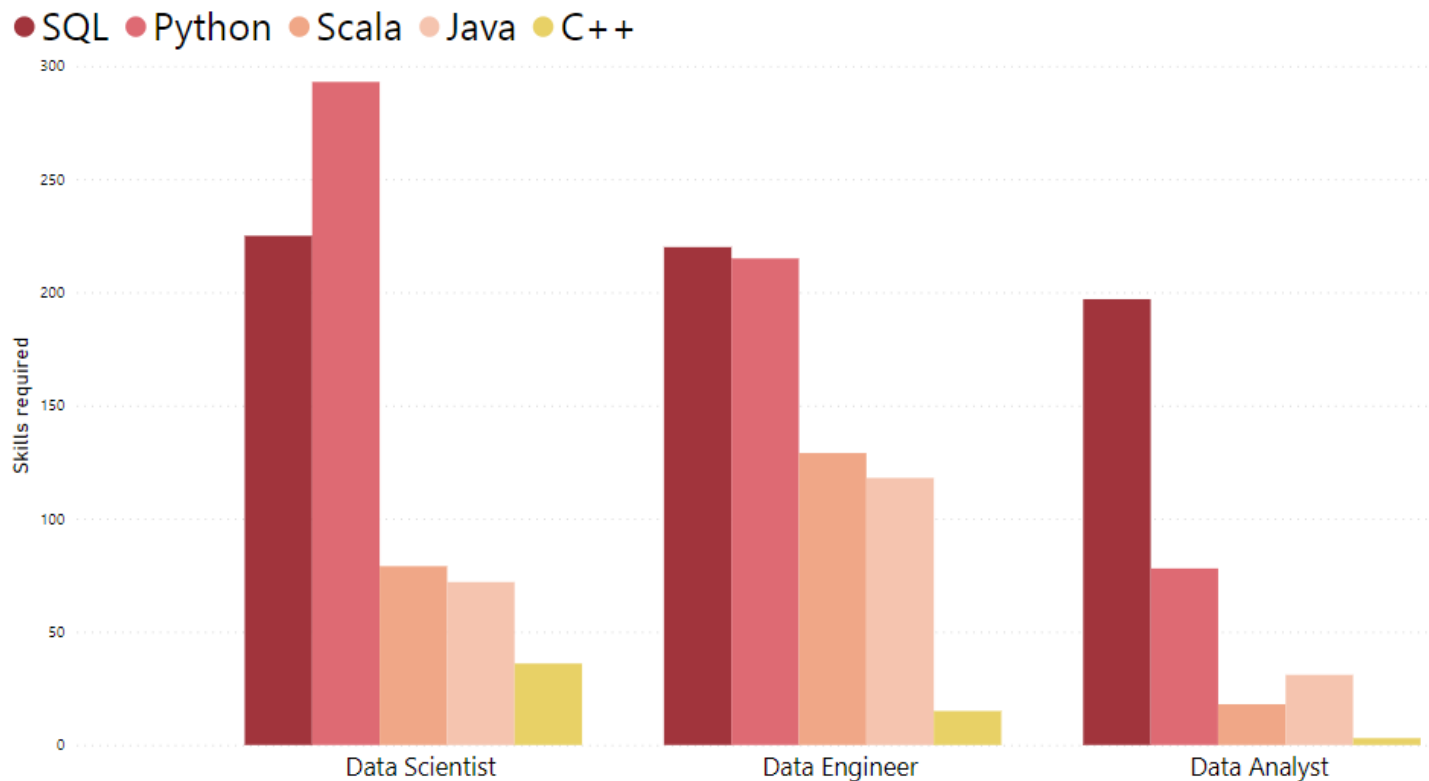
● Python ● SQL ● Scala ● Java ● C++

**Top sought-after
programming languages:
SQL, Python, Scala**



Skill Requirement by Job Categories

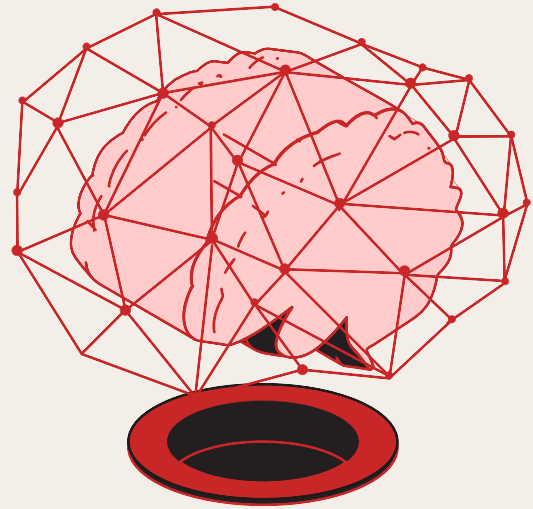
- Python is the most in-demand skill for Data Science
- For DE & DA, SQL is among the most essential skills



Conclusion

Are data talents in great demand?

Absolutely!



Conclusion

Top Employers

Company Name	Job Demand (post/year)	Average Salary (\$/year)	Rating
Apple	60	143658	4.10
IBM	57	106089	3.70
Amazon	47	117261	3.90
Staffigo Technical Services, LLC	28	100833	5.00
Diverse Lynx	25	103460	3.90
Facebook	25	147957	4.50

Conclusion



01. Job Market Highlight

- **Top paid career**

Data Scientist
(\$125k/ year)

- **Top skills**

SQL & Python

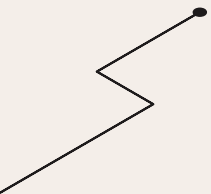
- **Top employers**

Apple & Meta

- **Top locations**

New York, Los
Angeles & California

- **Top sectors**



IT, Business Services
(Consulting, Staffing)
& Biotech

02. Elevating your career

- **Salary-affected Factors**

- Experience level
- Skills
- Companies
- Working location

- **To get your dream job**

- Constantly-updating Competencies
- Well-invested Portfolio



Thank you!

We'd love to hear your feedback!

