



Job Market Insights for Data Scientists

# Case Study:

### Analyzing Job Market Data in Power BI

Exploring a real-world job posting dataset to uncover insights for a fictional recruitment company called DataSearch

Dashboard by Marco Stallmann (2022)

Skills



Compan



#### Applied skills:

- investigate and clean CSV-data to find out what skills are most in-demand for data scientists, data analysts, and data engineers (Power Query)
- use DAX formulas to calculate measures and build insightful visualizations
- create a business dashboard to answer questions for the DataSearch team

Created as part of the Datacamp.com
Power BI Fundamentals Course

## DATA SEARCH

Job Title	~
All	~
Job Position Level	~
All	~
Company Name	~
All	~
Company Size	~
All	~
Company Industry	~
All	~
Job Posting Date	~
01.01.2017 31.12.2021	
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Data Science Job Market Insights

### Jobs Overview

9556

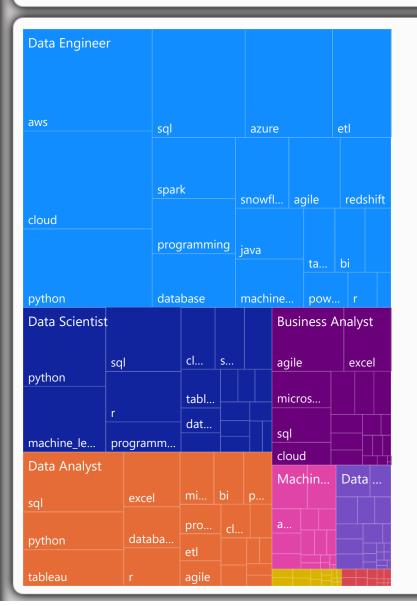
Posting Count

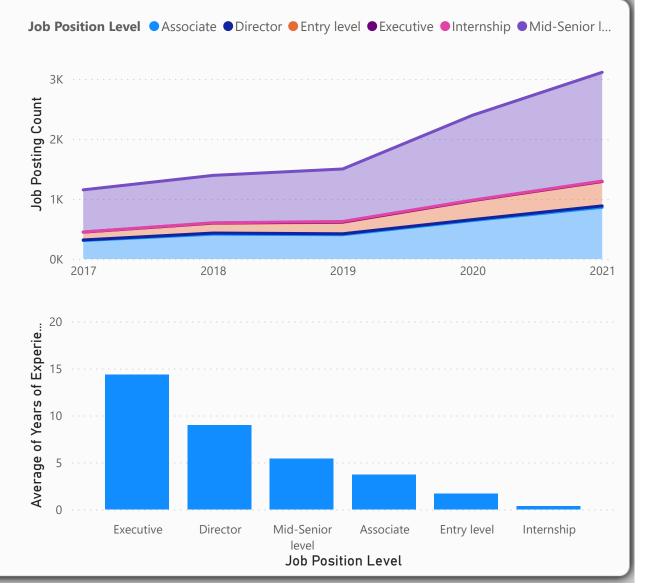
4,49

Average Years Experience



Home





## DATA SEARCH

Job Title	~
All	~
Job Position Level	~
All	~
Company Name	~
All	~
Company Size	~
All	~
Company Industry	~
All	$\vee$
Job Posting Date	~
01.01.2017 31.12.2021	
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Data Science Job Market Insights

### Skills Overview

166

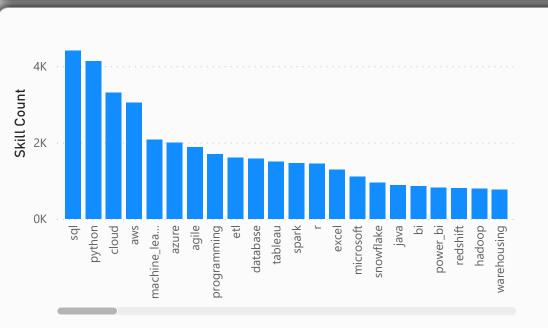
Distinct Count of Skills

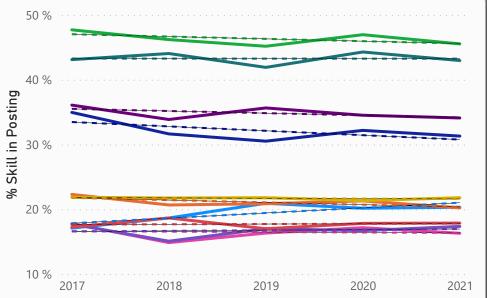
8561

Job Postings with Skills



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#### Percentage a Skill Included in Job Posting

Job Skills	Business Analyst	Data Analyst	Data Architect	Data Engineer	Data Science Manager	Data Scientist	Machine Learning Engineer	Research Scient
sql	18,27 %	73,13 %	90,23 %	52,40 %	73,91 %	43,37 %	21,55 %	10,00
python	4,78 %	45,99 %	36,74 %	52,66 %	95,65 %	58,83 %	80,21 %	40,00
cloud	12,00 %	11,92 %	47,91 %	65,86 %	21,74 %	18,96 %	37,46 %	25,00
aws	1,84 %	6,46 %	38,60 %	68,46 %	73,91 %	15,41 %	44,52 %	12,50
machine_learning	1,54 %	8,42 %	7,91 %	17,07 %	95,65 %	48,87 %	97,88 %	38,75
azure	1,84 %	3,91 %	11,63 %	49,10 %	8,70 %	6,80 %	9,89 %	13,75
agile	41,11 %	12,53 %	34,42 %	18,89 %		5,00 %	14,84 %	5,00
programming	3,48 %	14,61 %	31,63 %	23,83 %	56,52 %	20,41 %	23,67 %	36,25
etl	1,84 %	13,33 %	55,81 %	32,96 %	4,35 %	5,05 %	3,89 %	~
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## DATA SEARCH

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Company Industry	~
All	~
Job Posting Date	~
01.01.2017 31.12.2021	
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Avg Years Experience

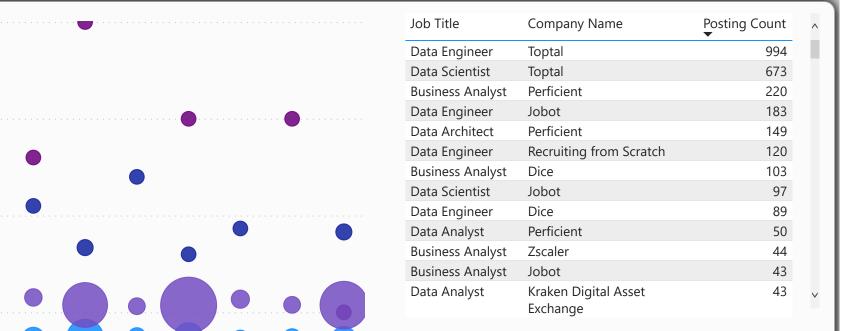
Data Science Job Market Insights

## Company Overview

Average Pay \$116K

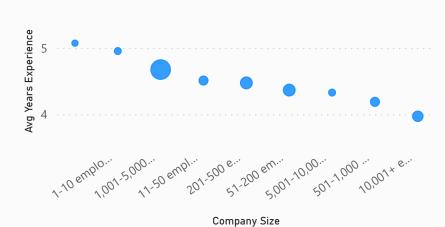


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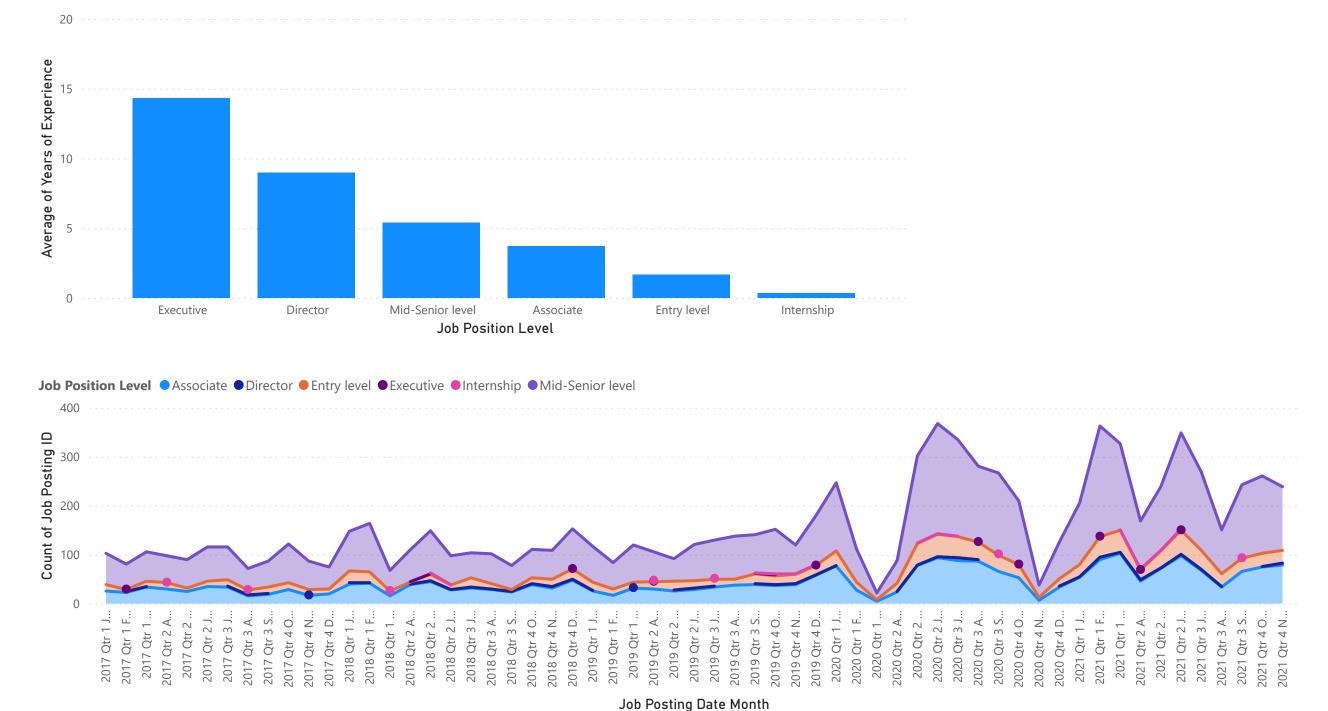


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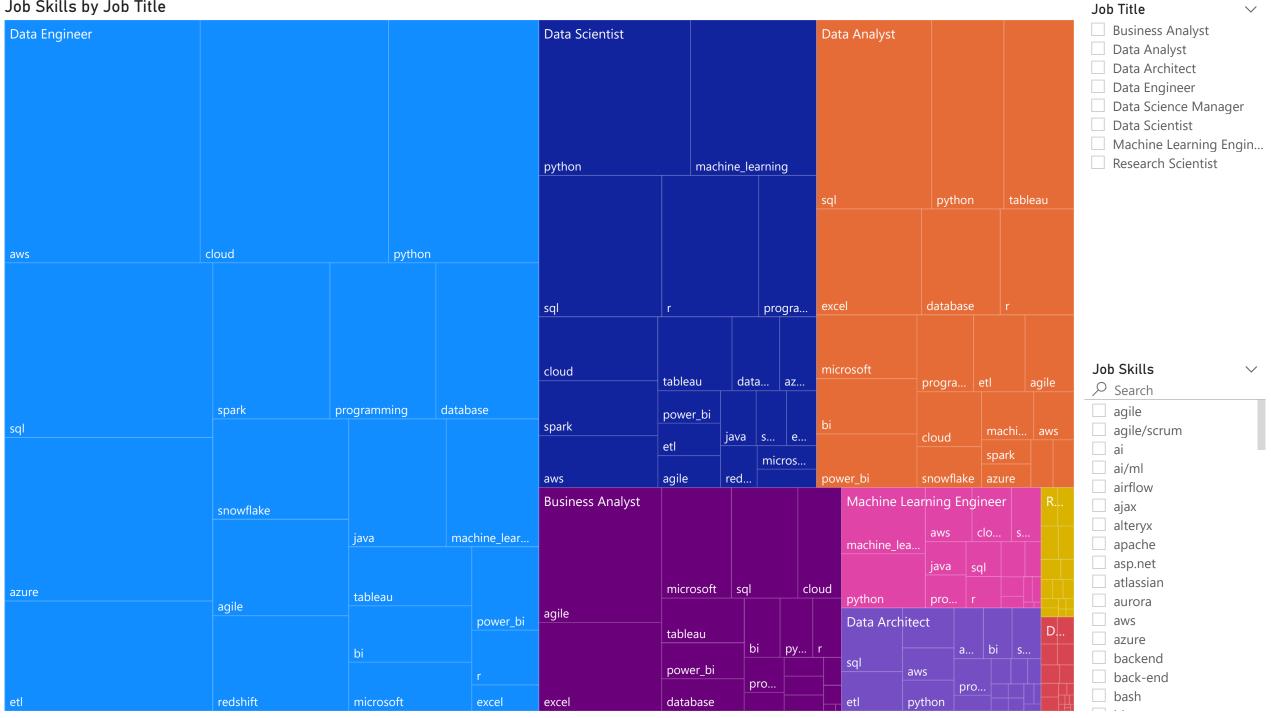
Company Industry



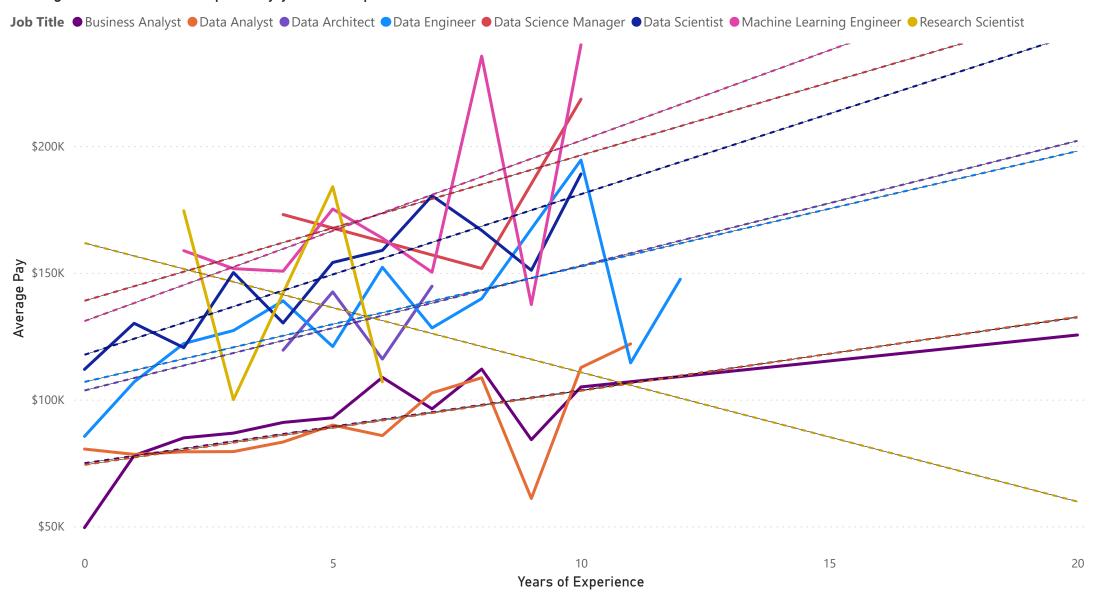
\$131,59K

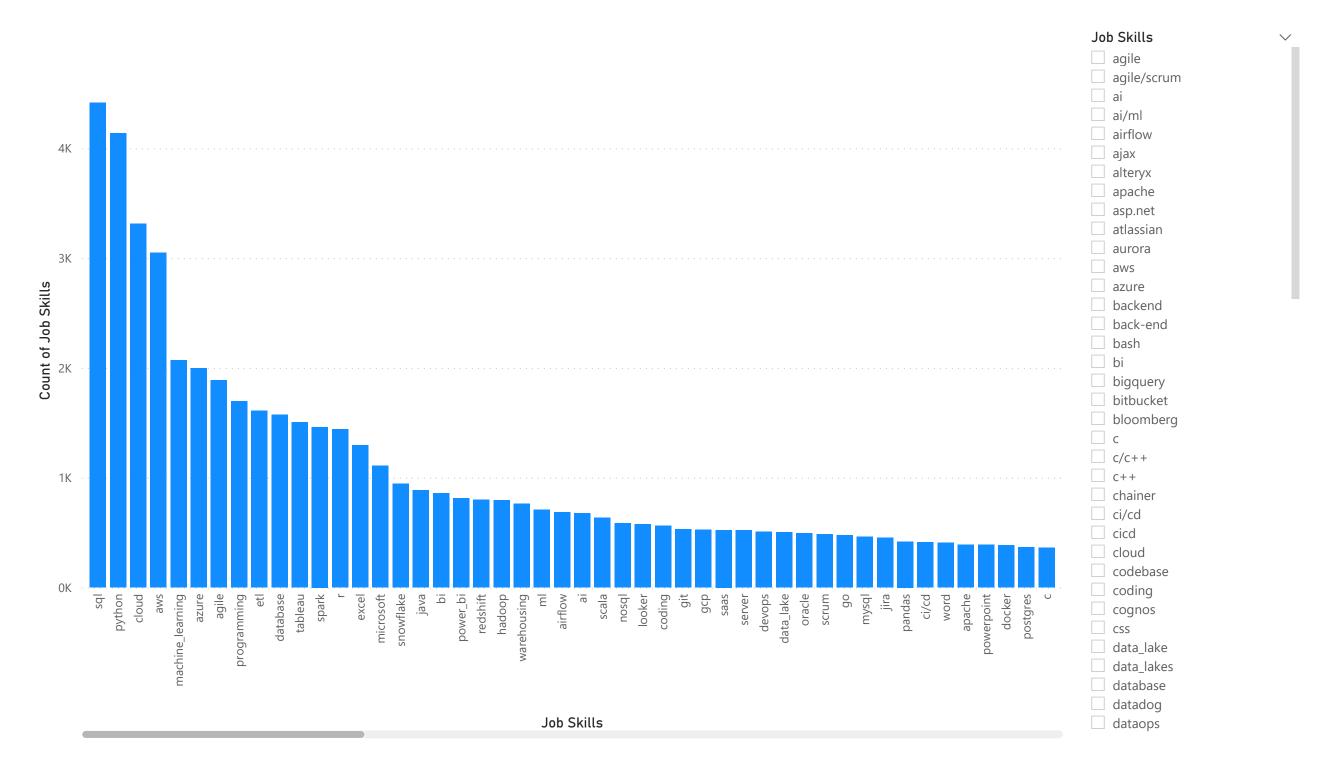


Job Skills by Job Title



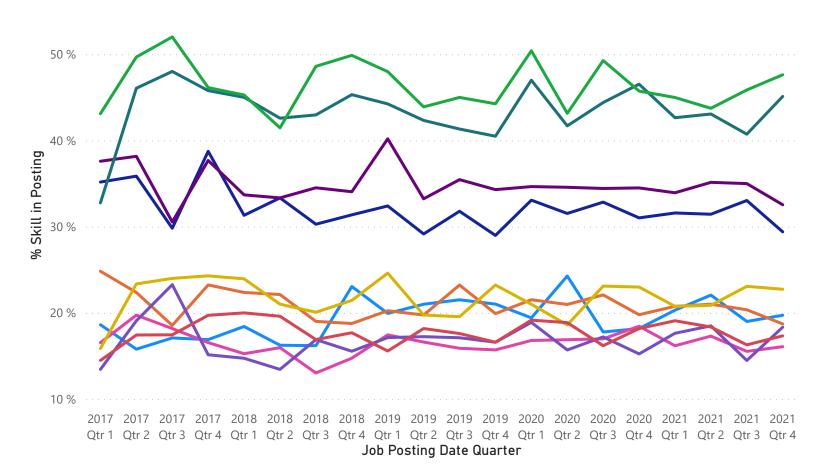
#### Average salaries of Data experts by years of experience (with trend)





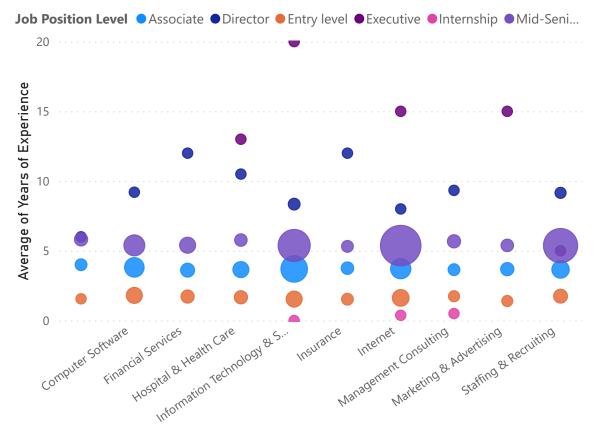
#### Likelihood of skills in Job Postings





Job Title	✓ Job Skills	~
Business Analyst	agile	
Data Analyst	agile/scrum	
Data Architect	ai	
Data Engineer	☐ ai/ml	
Data Science Manager	airflow	
Data Scientist	ajax	
Machine Learning Engineer	alteryx	

Job Skills	Business Analyst	Data Analyst	Data Architect	Data∧
sql	18,27 %	73,13 %	90,23 %	
python	4,78 %	45,99 %	36,74 %	
cloud	12,00 %	11,92 %	47,91 %	
aws	1,84 %	6,46 %	38,60 %	
machine_learning	1,54 %	8,42 %	7,91 %	
azure	1,84 %	3,91 %	11,63 %	
agile	41,11 %	12,53 %	34,42 %	
programming	3,48 %	14,61 %	31,63 %	
etl	1,84 %	13,33 %	55,81 %	
database	6,62 %	28,01 %	13,49 %	
tableau	9,16 %	44,31 %	9,77 %	
spark	0,20 %	4,04 %	33,95 %	
r	4,23 %	26,13 %	2,79 %	
excel	26,98 %	37,37 %	3,26 %	
microsoft	19,16 %	21,48 %	4,65 %	
snowflake	0,85 %	8,89 %	5,12 %	
java	1,24 %	3,30 %	4,65 %	
bi	5,28 %	18,72 %	33,95 %	
power_bi	7,37 %	18,05 %	5,58 %	
redshift	0,10 %	3,57 %	5,12 %	
hadoop	0,30 %	8,08 %	9,77 %	
warehousing	1,44 %	5,25 %	6,98 %	
ml	0,40 %	0,61 %	3,26 %	
airflow		2,63 %	28,37 %	
ai	3,09 %	4,11 %	3,26 %	
scala	0,15 %	2,76 %	1,86 %	
nosql	0,15 %	2,42 %	34,88 %	
looker	1,14 %	18,65 %	0,47 %	
coding	1,94 %	4,58 %	1,86 %	
git	1,10 %	3,23 %	27,91 %	
gcp	0,15 %	1,68 %	2,33 %	
saas	5,38 %	8,62 %	2,79 %	
server	2,64 %	5,66 %	4,19 %	
devops	1,89 %	0,94 %	33,02 %	
data_lake	0,20 %	4,38 %	47,44 %	<b>~</b>
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#### Company Industry

Job Title	Company Name	Posting Count
Data Engineer	Toptal	994
Data Scientist	Toptal	673
<b>Business Analyst</b>	Perficient	220
Data Engineer	Jobot	183
Data Architect	Perficient	149
Data Engineer	Recruiting from Scratch	120
Business Analyst	Dice	103
Total	11.	9556

