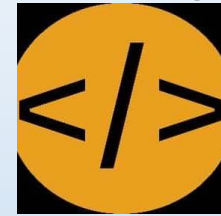


Code and create bootcamp *Capstone project*



DATA ANALYSIS:GROUP 5

OCTOBER, 2025

GROUP NAME:TEAM INFO SCOUTS.
GROUP TOPIC: DS JOB HR ANALYTICS

MEMBERS:

EDEH OGECHUKWU EVELYN-CCB/DA/060 ~ (*group captain*)

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OKOYE CHIBUIKE LIVINUS-CCB/DA/056

JOB DESCRIPTION:

- The dataset represents job listings for Data Science and Analytics roles from multiple companies

The goal is to help the HR analytics team and career advisory units understand:

- What factors influence salary estimates and company ratings.
- Which industries and locations offer the best opportunities, and
- How company attributes like size, founding year, and ownership affect job prospects.

Proposed Solution Overview:

- Team info scouts aims to clean and analyze the “DS Jobs dataset” using Excel and SQL to reveal key factors influencing salaries, ratings, and job trends, and more importantly to present insights visually.

Approach (SQL + Excel)

**SQL: Cleaning +salary parsing
+ group aggregations.**

**EXCEL: Visualization + KPI
dashboards+ interactive
slicers.**

**Combined quantitative &
visual story telling for HR
decision making.**

Row Labels	Average salary	Average rating	City	Job count	Average salary
Startup	123774.19	4.21	Boston	24	122583.33
Established	123706.02	3.72	Chicago	22	121318.18
Mid_age	119337.13	3.95	New York	50	136680
Grand Total	366817.34	11.88	San Francisco	69	119224.64
			Washington	27	138555.56
			Grand Total	192	638361.71
Industry	Sum of average_salary	Sum of avg_rating	Industry	Average salary	Average rating
Accounting	124666.67	4.17	Publishing	271500	4.7
Advertising & Marketing	117608.7	3.8	Health, Beauty, & Fitne	203750	4
Aerospace & Defense	132695.65	3.78	Food & Beverage Store	183000	3.7
Architectural & Engineering Services	154833.33	3.6	Hotels, Motels, & Reso	183000	3.5
Banks & Credit Unions	127562.5	3.69	State & Regional Agenc	183000	3.2
Biotech & Pharmaceuticals	122871.21	3.68	Wholesale	177000	2.63
Cable, Internet & Telephone Providers	99500	2.9	Other Retail Stores	167333.33	3.67
Chemical Manufacturing	128166.67	3.37	Architectural & Engine	154833.33	3.6
Colleges & Universities	117833.33	3	Electrical & Electronic I	145500	3.47
Computer Hardware & Software	120219.3	4.24	Transportation Equipm	140000	4.6
Construction	74750	3.4	Research & Developme	136205.88	3.87
Consulting	131052.63	3.91	Aerospace & Defense	132695.65	3.78
Consumer Electronics & Appliances Store	129500	3.5	Video Games	132666.67	4.47
Consumer Products Manufacturing	119000	3.6	Express Delivery Servic	132000	3.2
Department, Clothing, & Shoe Stores	107000	3.5	Federal Agencies	131437.5	3.97
Electrical & Electronic Manufacturing	145500	3.47	Consulting	131052.63	3.91
Energy	110800	3.7	Consumer Electronics &	129500	3.5
Enterprise Software & Network Solution:	119918.6	4.09			

Executive Summary

Average Salary
\$123,663.69

Average Rating
3.8



500 + Data Science & Analytics job listings analysed

Objective : understand salary & rating drivers, top industries & location

Average salary \approx **\$123k**

Average rating \approx 3.8

Tech & Finance = best combination of pay + rating

Established firms pay \approx 20 % more than startups

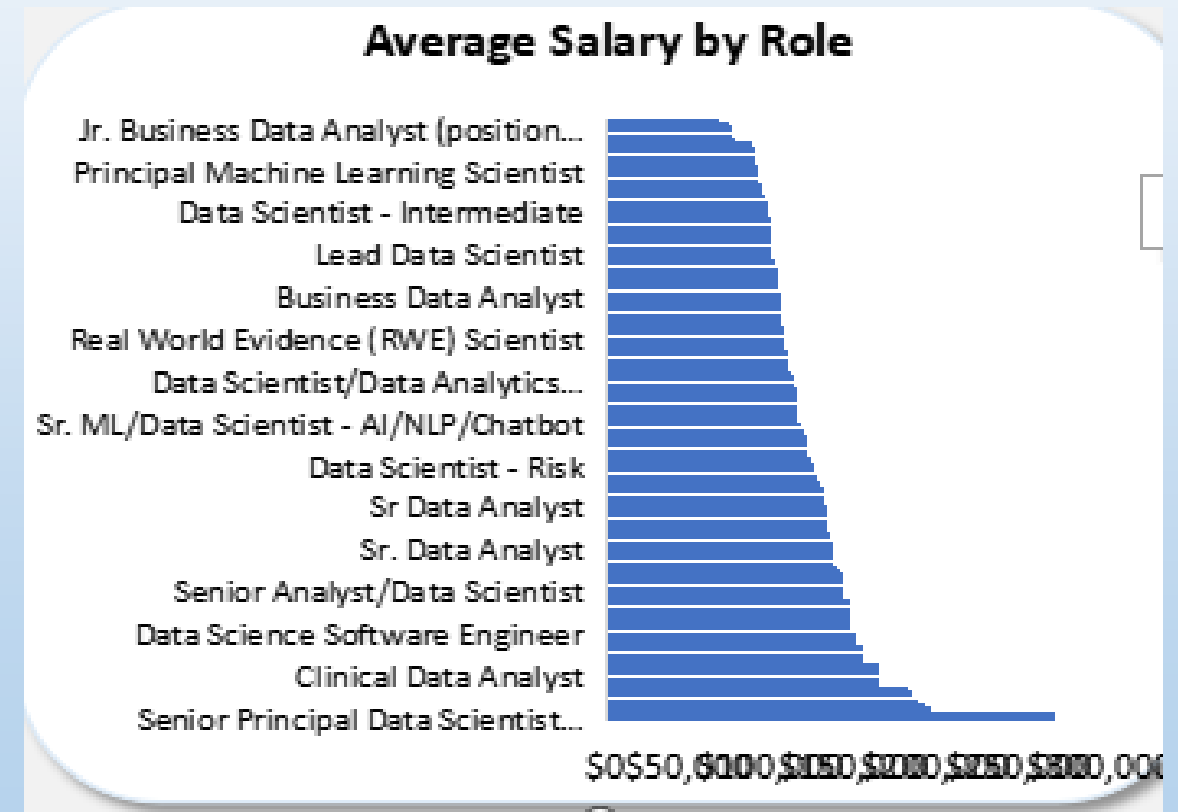
Problem 1:

Question: *Which job tittles have highest average salary estimates?*

Top 5 ROLES by Average Salaries:

- 1) Senior Data Scientist- **\$271k**
- 2) ML Engineer- **\$197k**
- 3) Data Science Manager- **\$188k**
- 4) Data Engineer- **\$164k**
- 5) Data Scientist- **\$154k**

Chart



Problem 2:

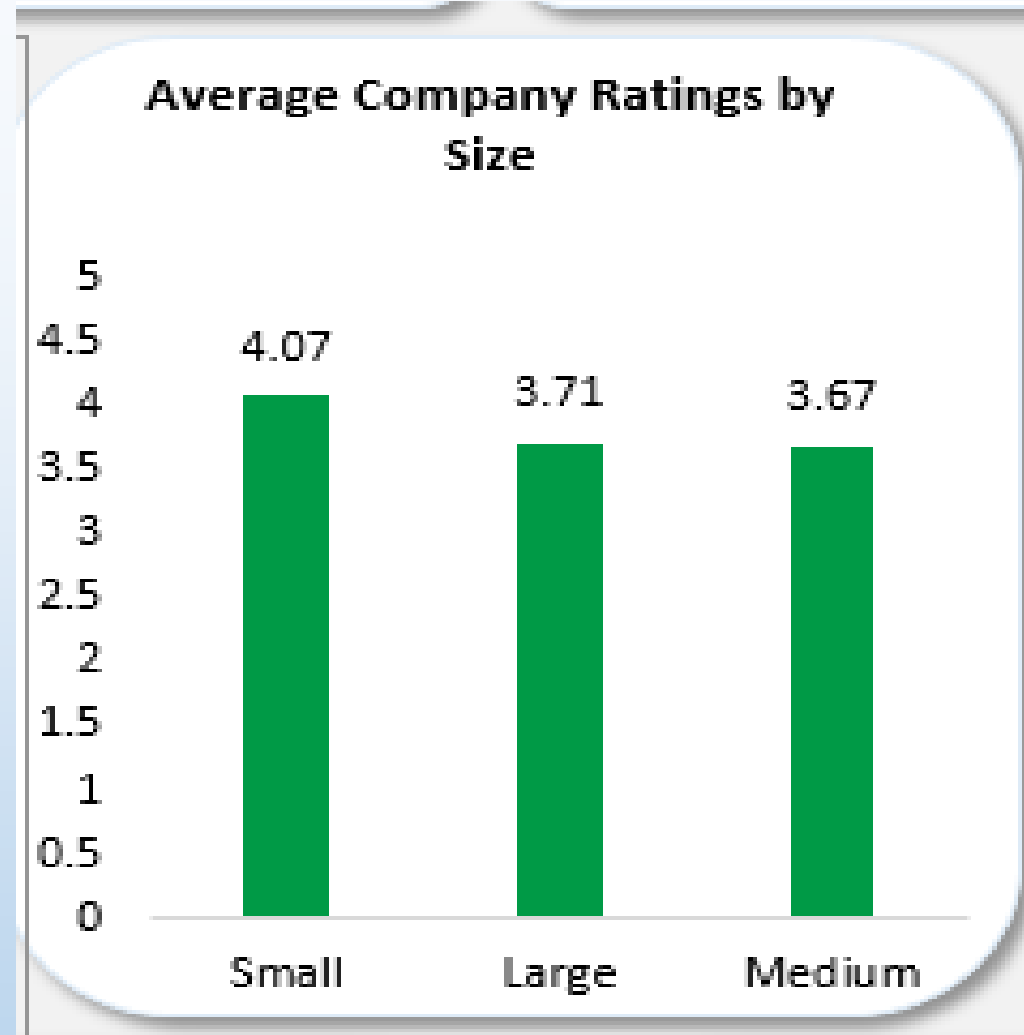
Question: *Do larger companies tend to have higher Glassdoor ratings?*

Company sizes vs Ratings:

Large Companies(>5000 Employees) _3.71

Medium Companies (500-5000 Employees)_3.67

Small Companies(<500 Employees)_4.07



Problem 3:

Question: *Do larger companies tend to have higher Glassdoor ratings?*

Industry & Sector Analysis

Publishing -

Health , Beauty ,& Fitness –

Food and Beverages Stores

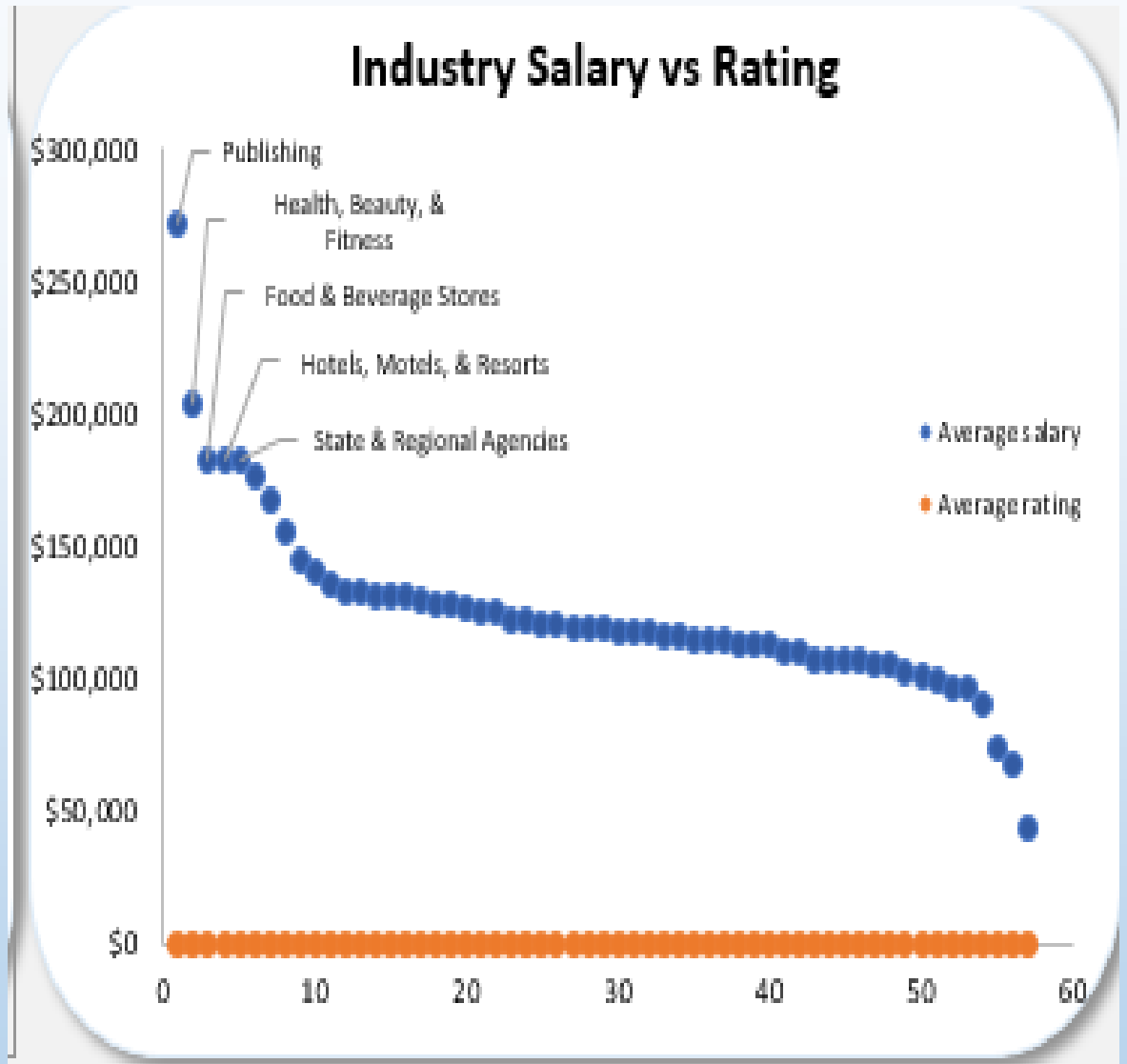
Hotels, Motels,& Resorts -

State & Regional Agencies –

Whole sale –

Architectural &Engineering -

Aerospace & Defense -



Problem 4:

Question: *which U.S. cities offer the most Data science job opportunities and best pay?*

Location & market opportunities

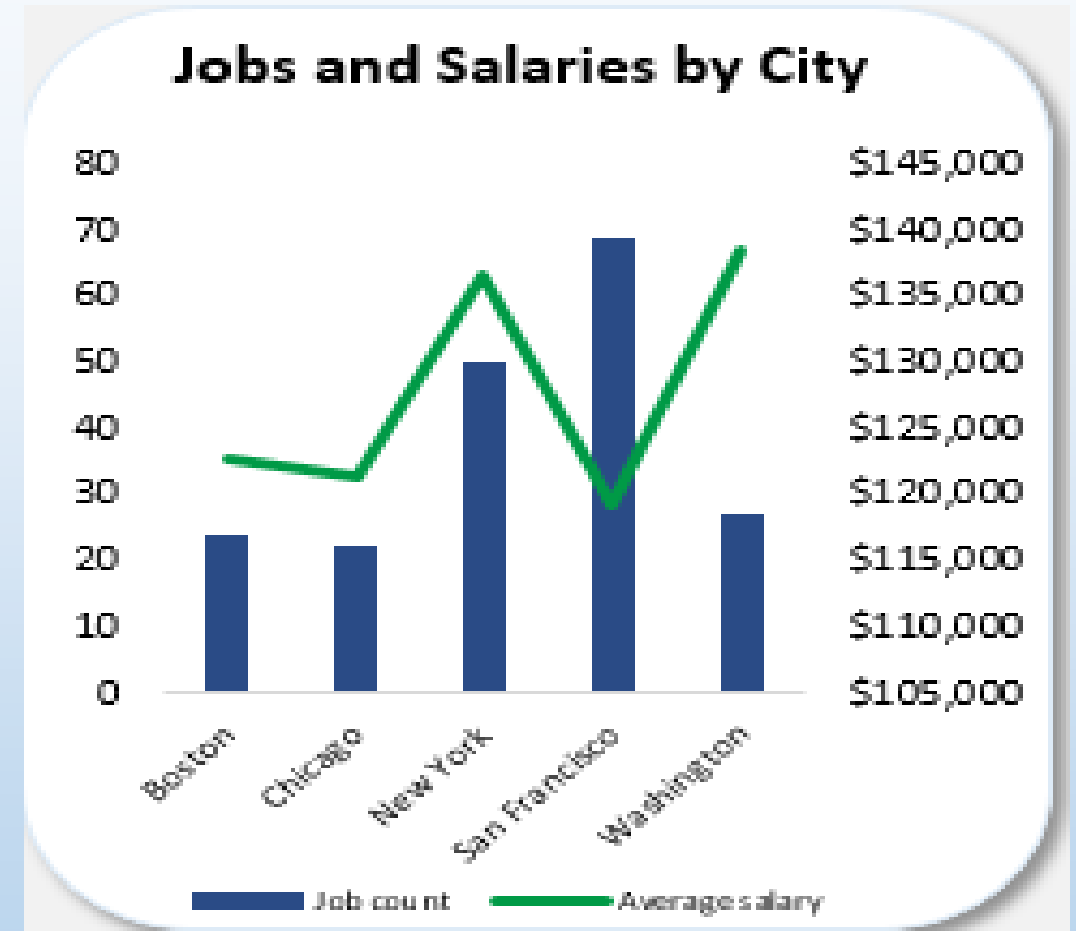
San Francisco

New York

Washington

Boston

Chicago

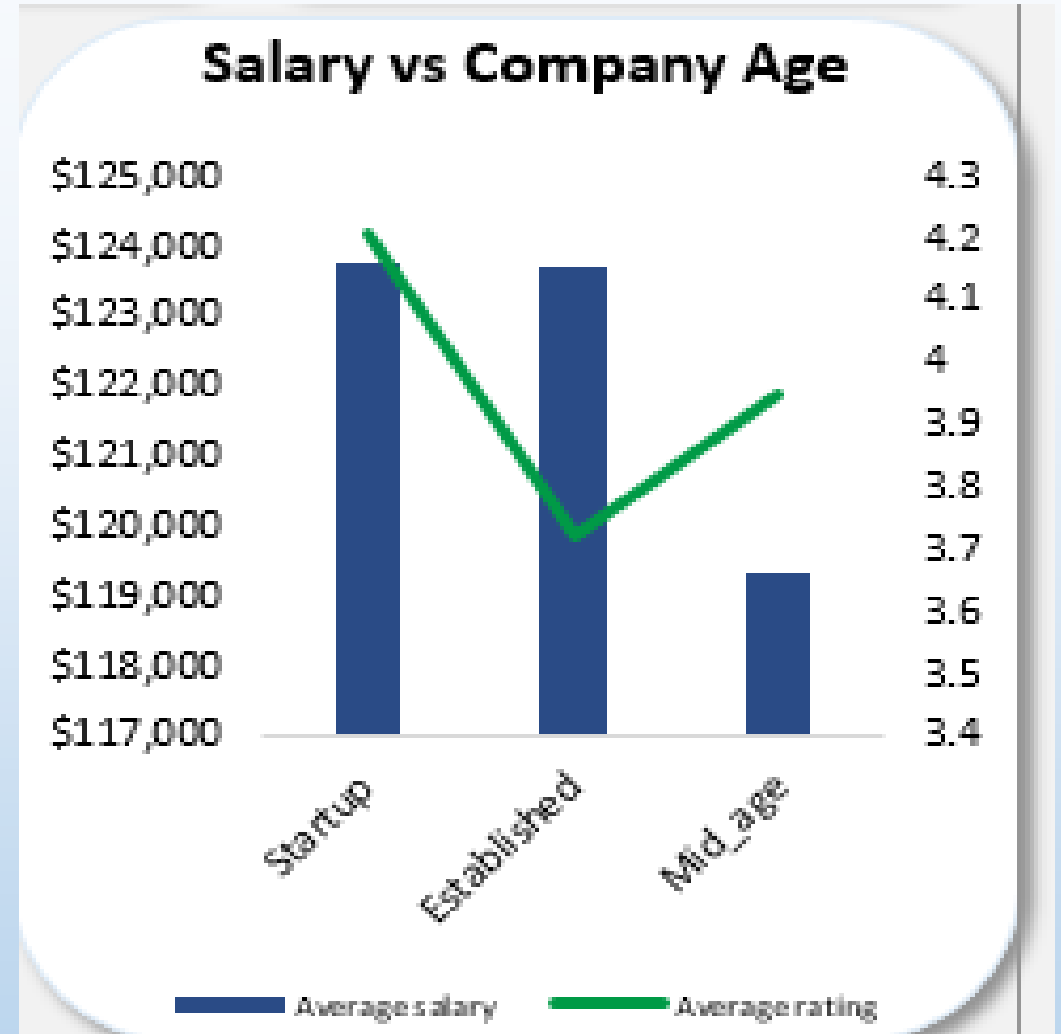


Problem 5:

Question: *Do older, more established companies offer higher salaries?*

Company Age vs Salary:

Start ups (≤ 5 yrs) 4.2	\$123,774
Mid-age (6–15 yrs) 3.72	\$123,706
Established (> 15 yrs) 3.95	\$119,337



Top 3 Locations for Job counts:

San Francisco

New York

Washington



Recommendations:

Recruitment for high value roles should be btw Senior Data Scientist & ML Engineers.

Focus on top cities (San Francisco ,New York city, Washington)

Keep Salaries competitive in Health and Finance Sectors.

Highlight growth potential to attract talent to start-ups.

Implement a skill-based hiring strategy (to align required skills with salary levels)

Develop a data driven compensation dashboard to continuously monitor pay equity and market trends.

Thanks for having us