Jobs and Salaries in Data Science (2020-2023)

DATA SOURCE :

1.Kaggle : AI-jobs.net

2.The Word Bank Data and IMF(international monetary fund) for economic indicators.

GOALS:

1.Identify Top Paying Job Categories

2.Analyze Employment Trends by Location

3.Examine the Impact of Economic Factors on Data Science related jobs

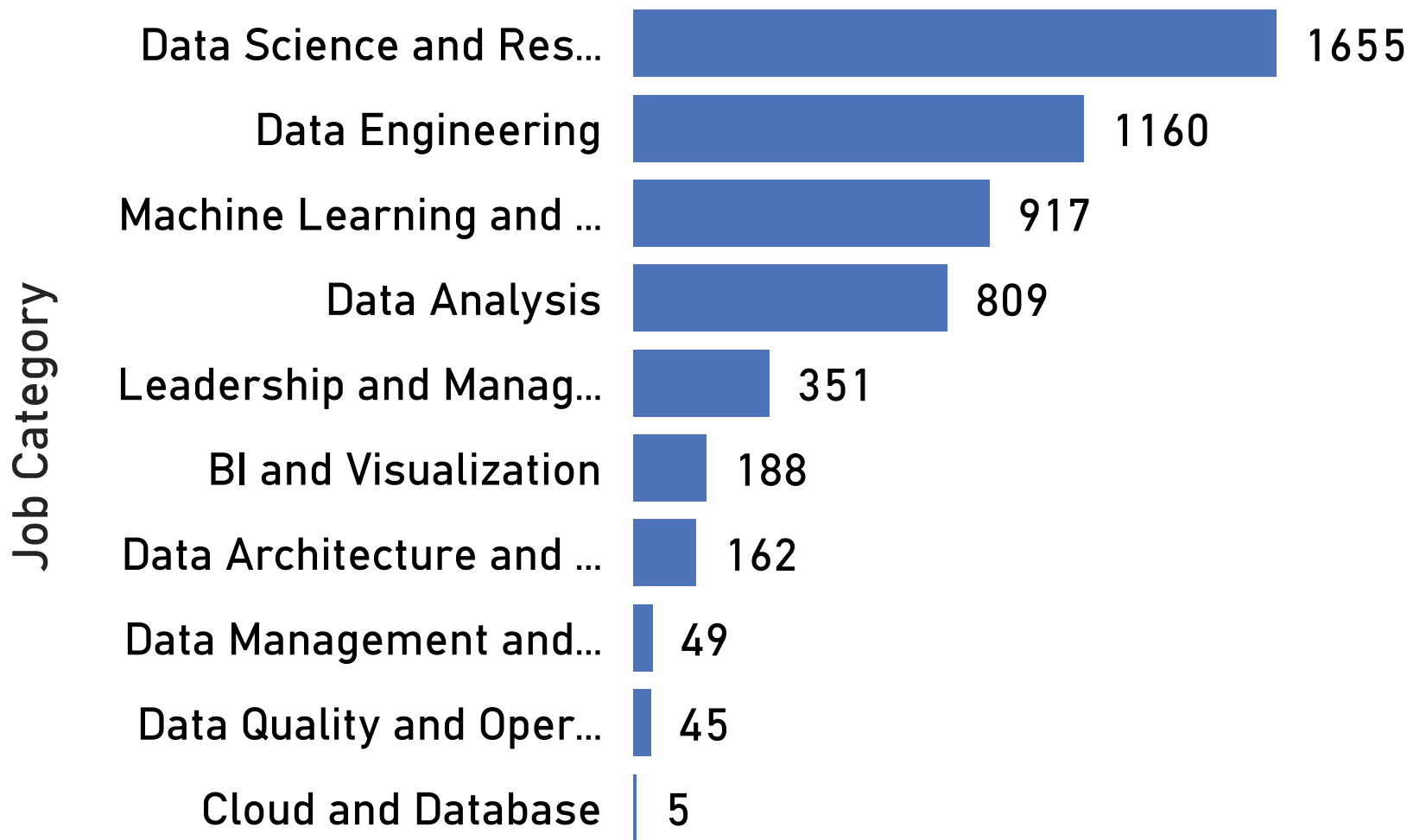# Exploratory Analysis of Data Science Jobs and Salaries (2020-2023)

Number of Jobs
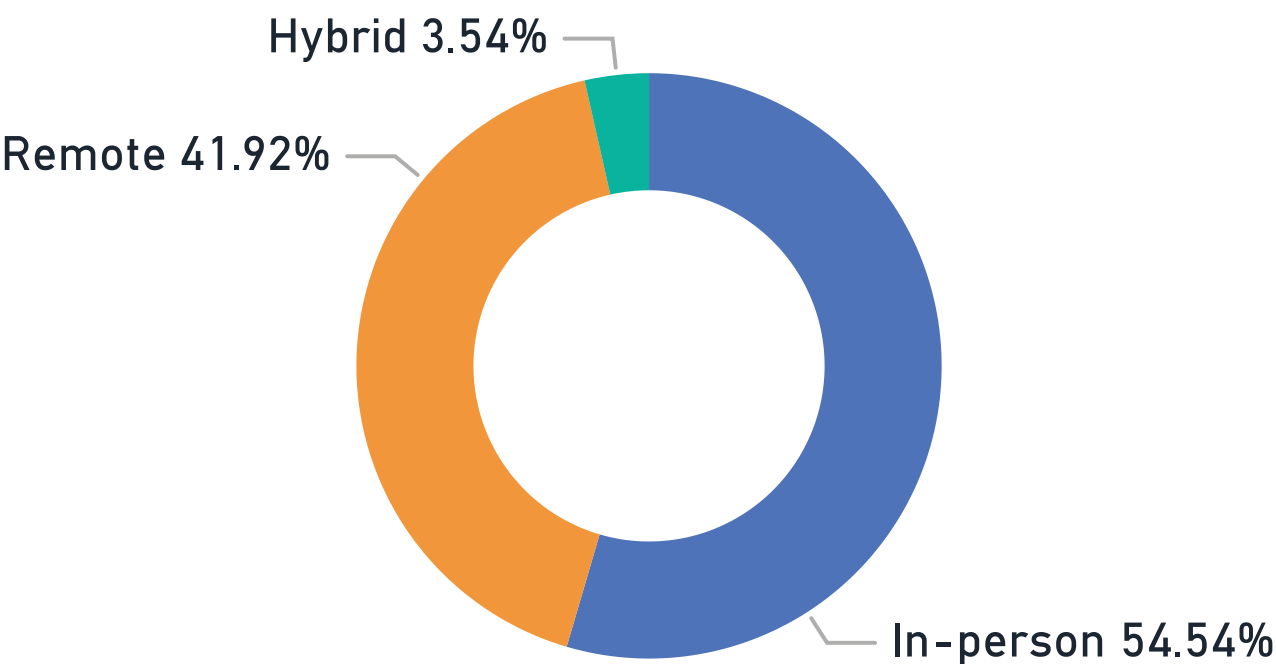### 5.341K

Average Salary in USD
146K

Company Locations
70

Distribution of Data Science Jobs

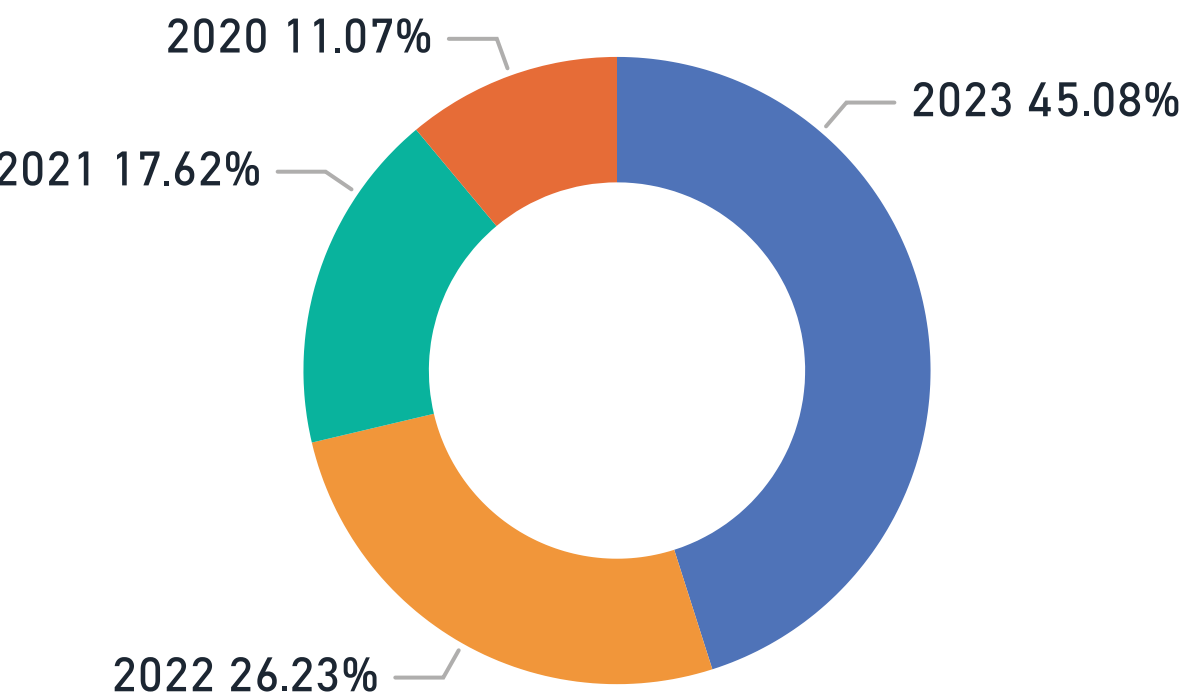| Job Category	
Data Science and Res...	1655
Data Engineering	1160
Machine Learning and ...	917
Data Analysis	809
Leadership and Manag...	351
BI and Visualization	188
Data Architecture and ...	162
Data Management and...	49
Data Quality and Oper...	45
Cloud and Database	5

- **United States** offers the highest average data science salary at **USD 158K.**

- **Data Science and Research roles** dominate, making up **30.9%** of all positions.

- **In-person roles prevail**, representing **54.54%** of the work setting distribution.
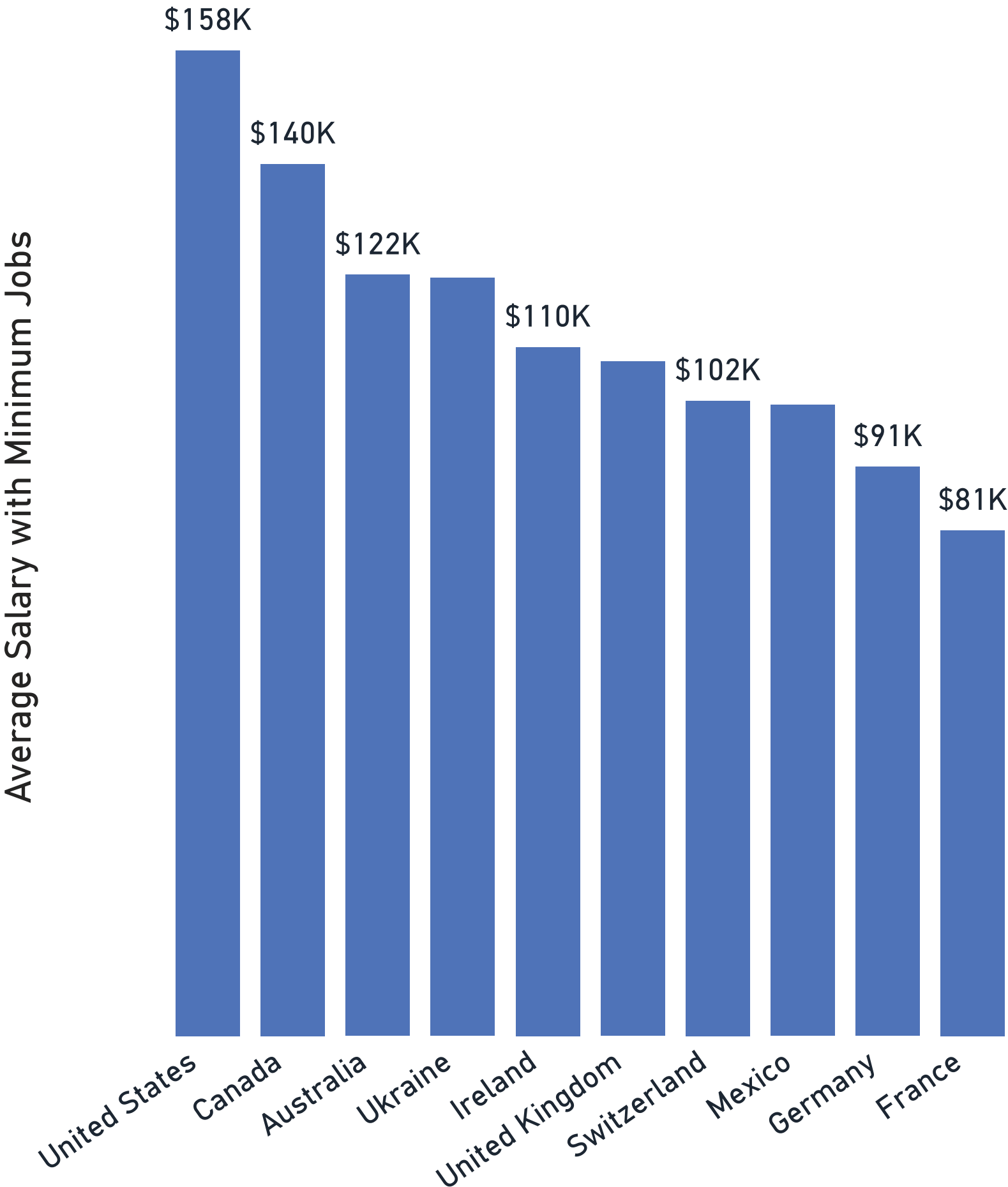
- **2023** marks a peak in data science employment

Work Setting of Companies

Hybrid 3.54%
Remote 41.92%
In-person 54.54%

Jobs Distribution 2020-2023

2020 11.07%
2021 17.62%
2023 45.08%
2022 26.23%

Top 10 Highest Paying Company Locations

Average Salary with Minimum Jobs

- United States $158K
- Canada $140K
- Australia $122K
- Ukraine $110K
- Ireland $110K
- United Kingdom $102K
- Switzerland $102K
- Mexico $91K
- Germany $91K
- France $81K

Data Science Salary Trends

Job Title

All ⌄

Company Location

All ⌄

Average salary of all job titles in all locations is $146.26K

Forecasting average salary over next 10 years

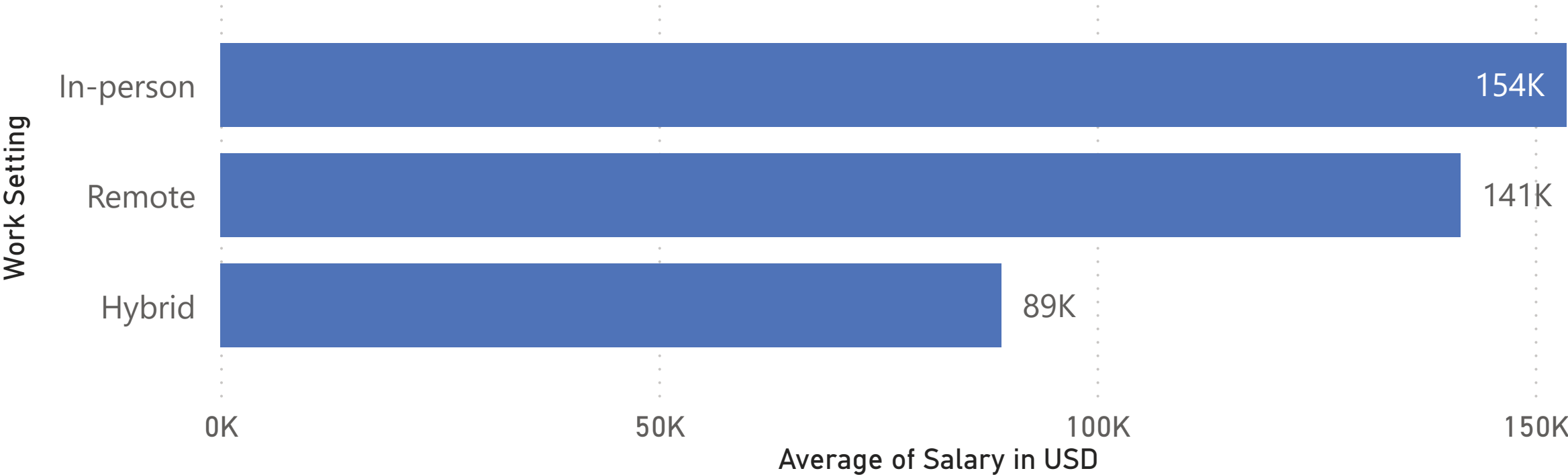98 % increase in Salary expected
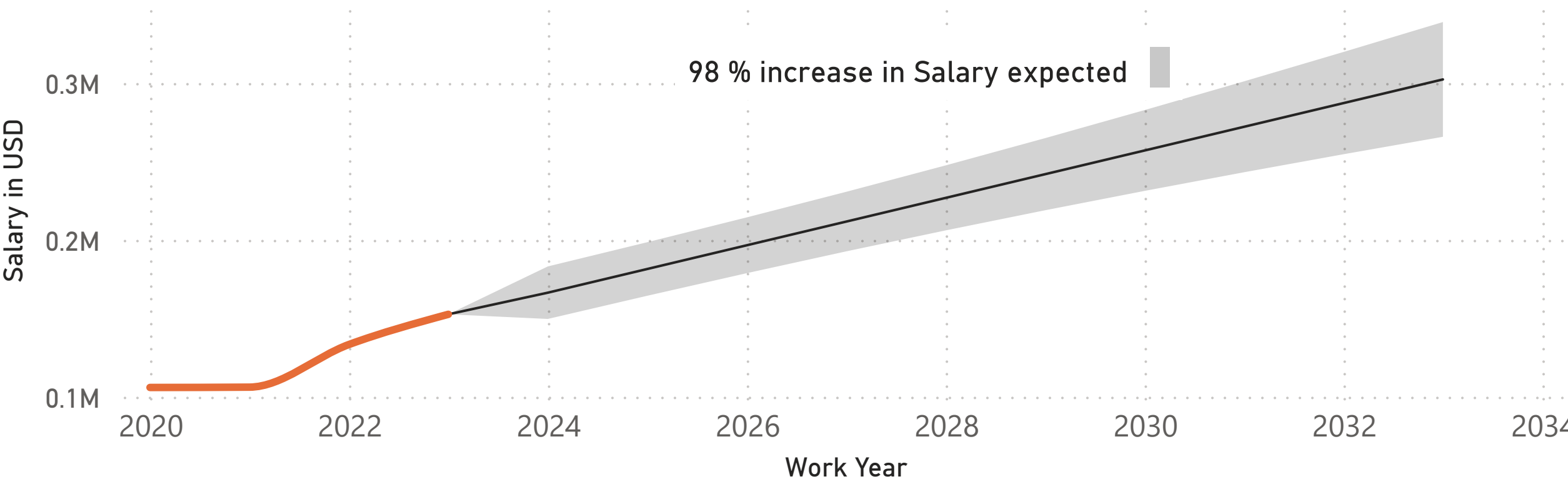
What experience level do most jobs require? Does average salary increase with experience level?

● Number of Jobs ● Average of Salary in USD
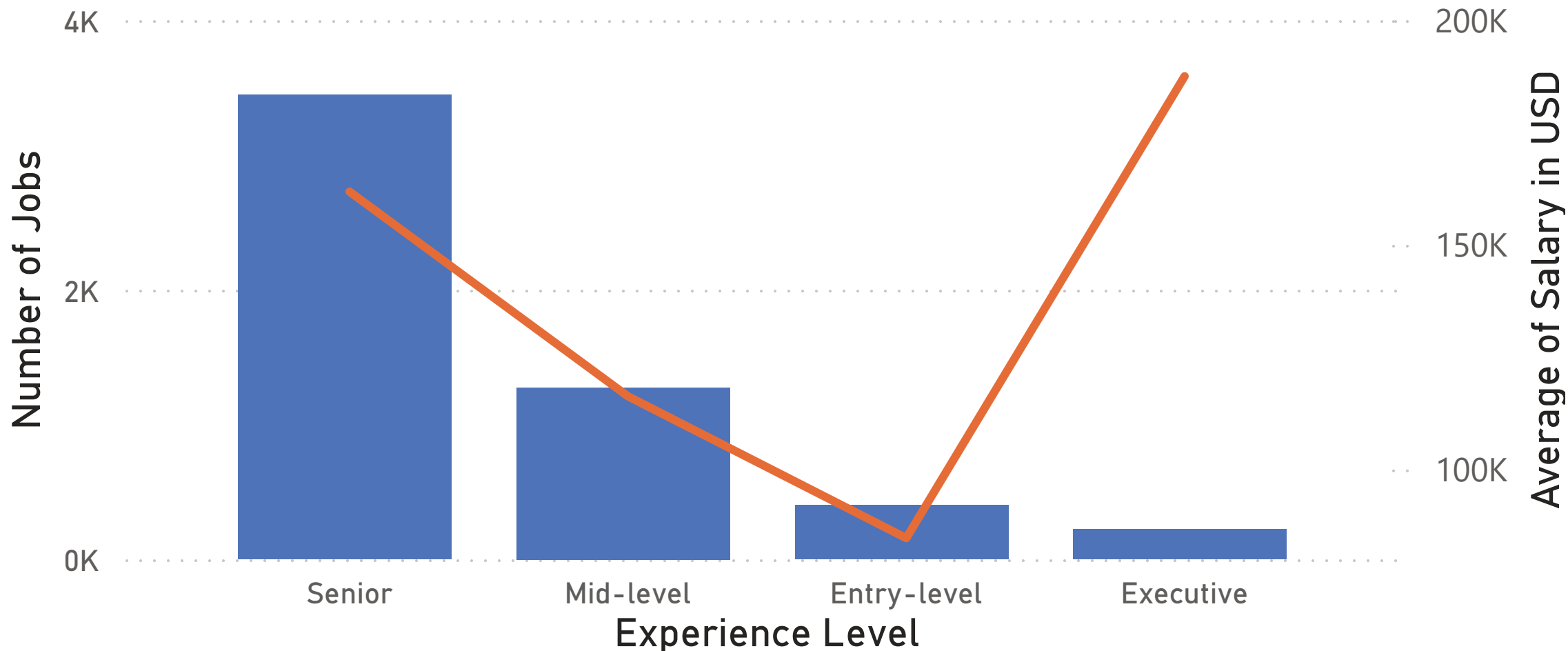
Which work setting pays the best?

Work Setting	Average of Salary in USD
In-person	154K
Remote	141K
Hybrid	89K

What are the highest paying Data Science Job Categories?

Leadership and Management 18.9%

Machine Learning and AI 21.61%

Cloud and Database 19.65%

Data Science and Research 19.92%

Data Architecture and Modeling 19.91%
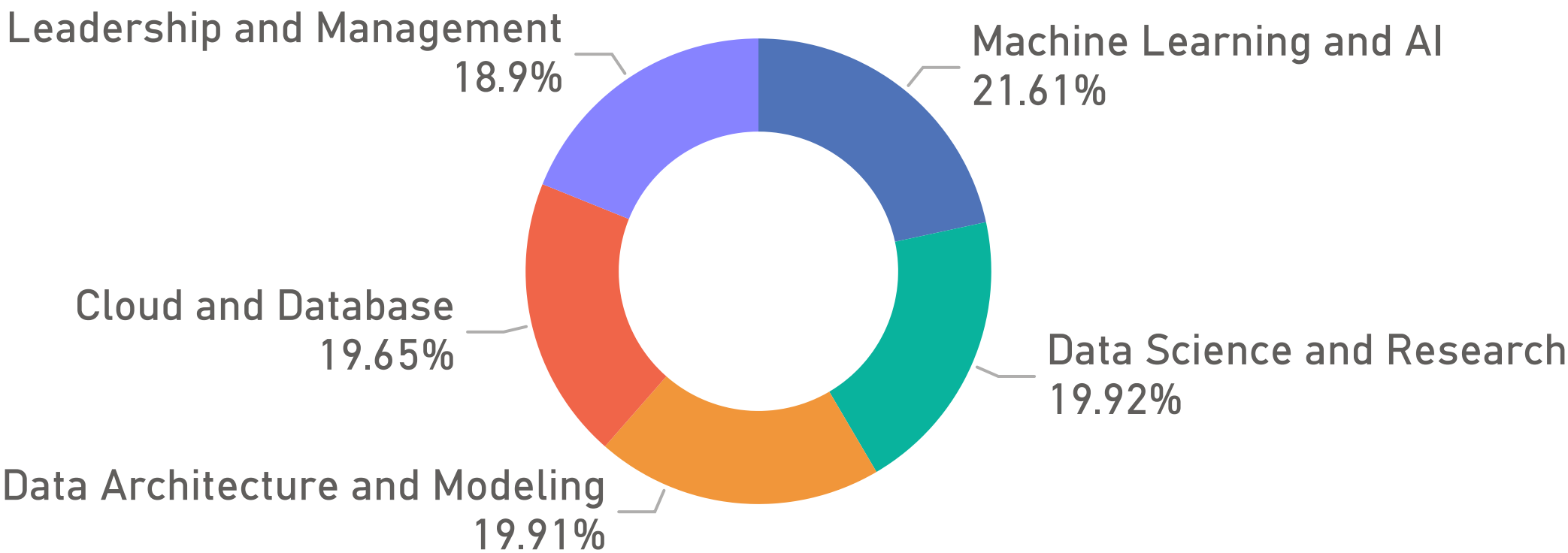
Economic Influence on Data Science Employment Trends
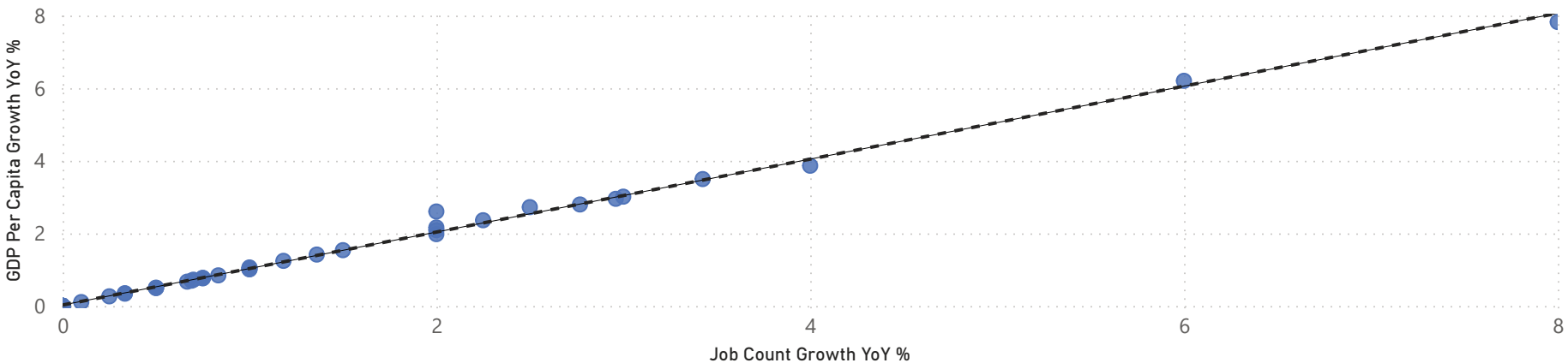
Company Location

All ▾

Population tier breakdown:
Small < 10 M
Medium >= 10 M
100 M< Large < 500 M
Very large >= 500 M

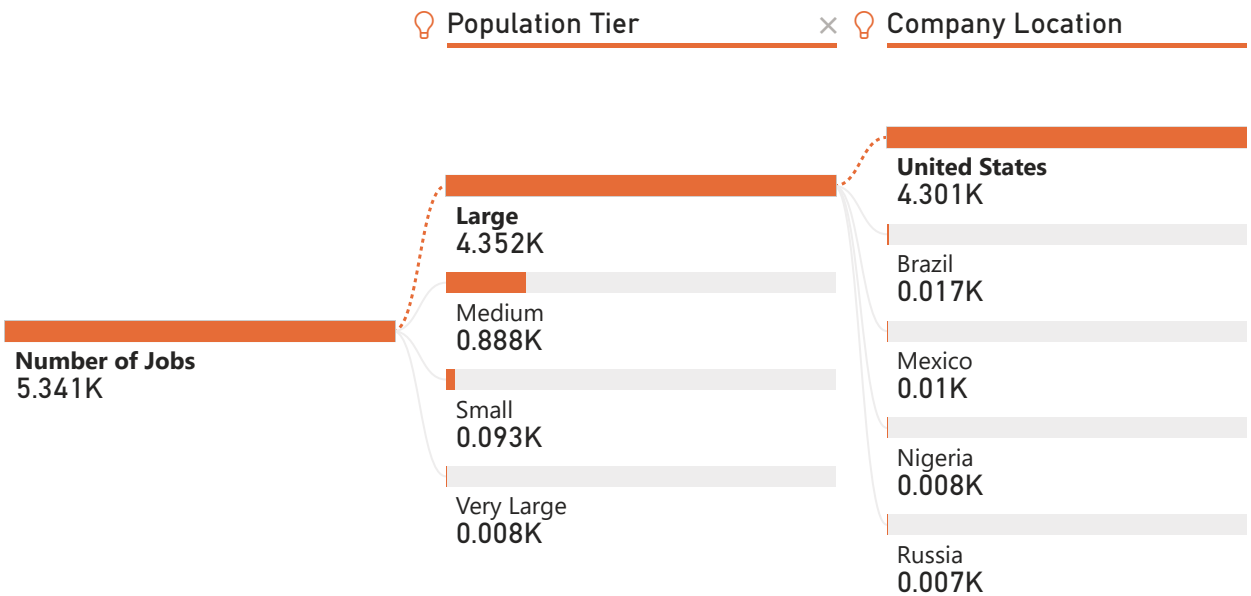### Correlation Between Job Count Growth and GDP Per Capita Growth.

For every **1 % GDP** per capita growth , the **job count increases by 0.91%**
*Other factors not depicted here may influence these trends

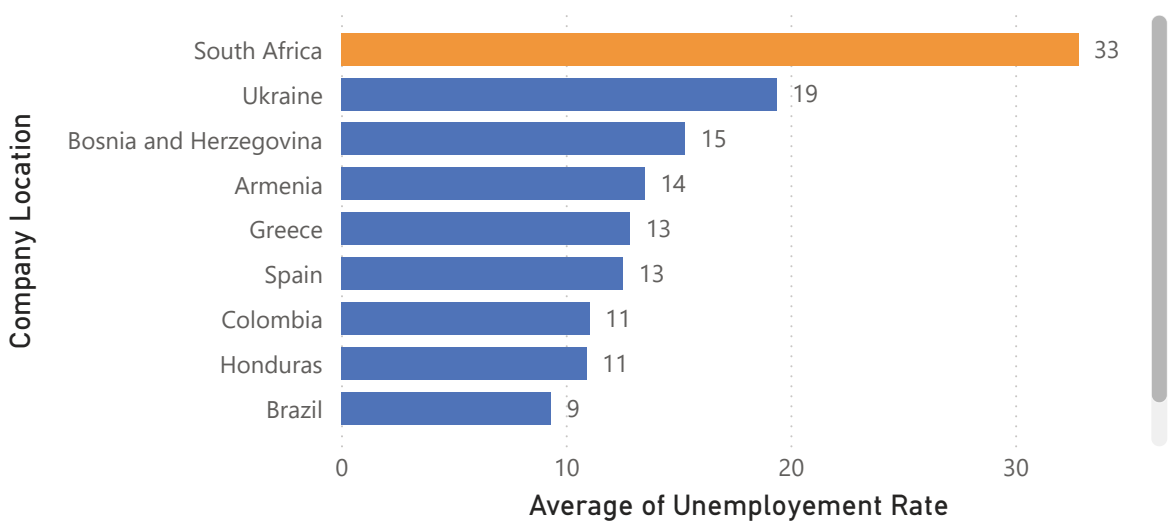The **'Large' population tier** countries contribute to **81 % of jobs** in Data Science
*Amongst these countries, USA offers the highest number of jobs.

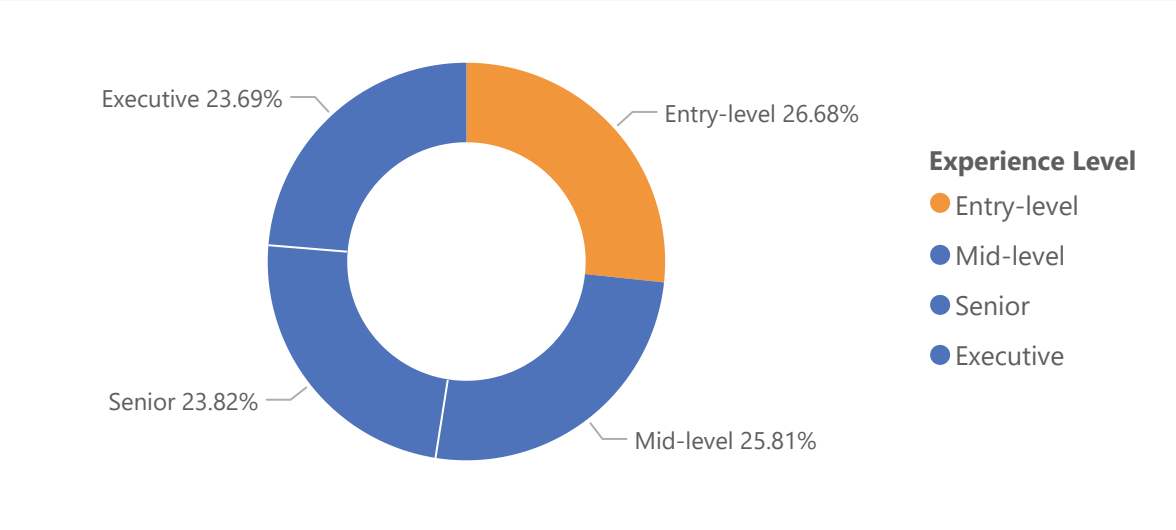### Data Science Job distribution across different Population Tiers

💡 Population Tier ✕ 💡 Company Location

Number of Jobs
5.341K

Large
4.352K

Medium
0.888K

Small
0.093K

Very Large
0.008K

United States
4.301K

Brazil
0.017K

Mexico
0.01K

Nigeria
0.008K

Russia
0.007K

Global Data Science Unemployment Trends

Top 10 Company Locations with Highest Unemployement Rate

Company Location (y-axis), Average of Unemployement Rate (x-axis)

Company Location	Average of Unemployement Rate
South Africa	33
Ukraine	19
Bosnia and Herzegovina	15
Armenia	14
Greece	13
Spain	13
Colombia	11
Honduras	11
Brazil	9

What is the average unemployment rate across different job categories within the data science field?

Job Category	Average of Unemployement Rate ▼
Machine Learning and AI	4.18
Data Engineering	4.15
Data Analysis	4.05
Data Science and Research	3.99
Leadership and Management	3.83
Data Management and Strategy	3.79
BI and Visualization	3.78
Data Architecture and Modeling	3.76

What is the distribution of average unemployment rates by experience level?

- Executive 23.69%
- Entry-level 26.68%
- Senior 23.82%
- Mid-level 25.81%

Experience Level
- Entry-level
- Mid-level
- Senior
- Executive

Global unemployment rates between 2020-2023

48% decrease in unemployment rate between 2020-2023

Average of Unemployement Rate (y-axis), Work Year (x-axis)