

DATA SCIENCE

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Agenda

- Python
- Data Visualize





Project Description

This project delves into global salary trends within data-related occupations, analyzing a rich dataset to uncover how factors like job title, geographic location, experience level, and employment type influence compensation. By leveraging advanced data visualization tools, the study highlights significant salary disparities across different regions and job categories, offering insights that are vital for professionals navigating the data science job market. This comprehensive analysis not only helps understand current trends but also aids in predicting future salary trajectories in the evolving field of data science.

```
data = read_csv("data.csv")
data
```

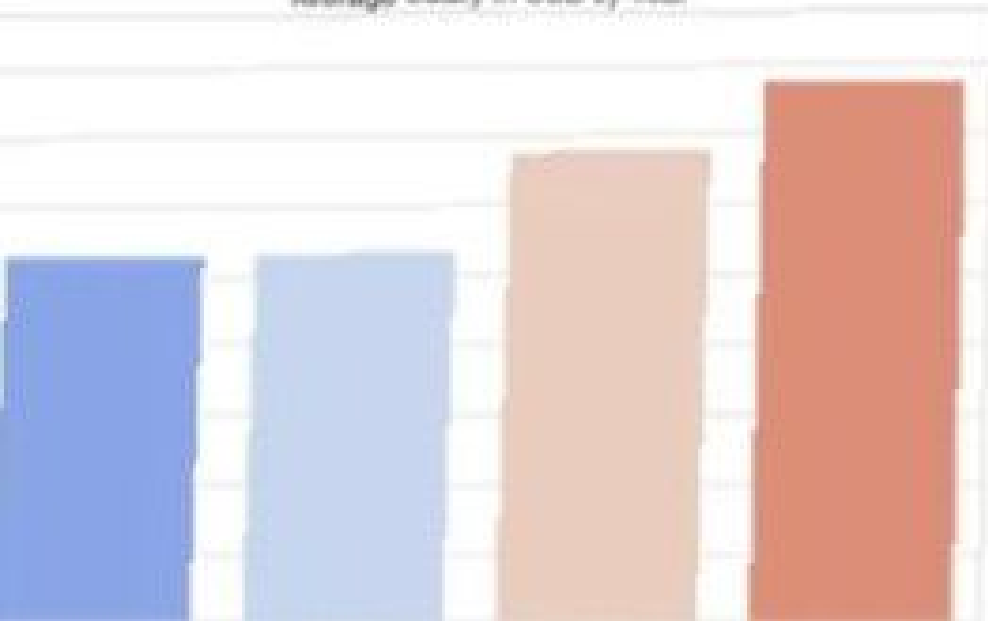
✓ 10s

| | month_year | job_title | job_category | salary_currency | salary | salary_in_usd | employee_residence | experience_level | employment_type | work_setting | company_location | company_size |
|-------|------------|--------------------------|--------------------------------|-----------------|--------|---------------|--------------------|------------------|-----------------|--------------|------------------|--------------|
| 0 | 2020 | Data DevOps Engineer | Data Engineering | EUR | 88000 | 96212 | Germany | Mid level | Full time | Hybrid | Germany | L |
| 1 | 2020 | Data Architect | Data Architecture and Modeling | USD | 148000 | 148000 | United States | Senior | Full time | In-person | United States | M |
| 2 | 2020 | Data Architect | Data Architecture and Modeling | USD | 81800 | 81800 | United States | Senior | Full time | In-person | United States | M |
| 3 | 2020 | Data Scientist | Data Science and Research | USD | 212000 | 212000 | United States | Senior | Full time | In-person | United States | M |
| 4 | 2020 | Data Scientist | Data Science and Research | USD | 80000 | 80000 | United States | Senior | Full time | In-person | United States | M |
| ... | | | | | | | | | | | | |
| 9998 | 2021 | Data Specialist | Data Management and Strategy | USD | 160000 | 160000 | United States | Senior | Full time | Remote | United States | L |
| 9999 | 2020 | Data Scientist | Data Science and Research | USD | 412000 | 412000 | United States | Senior | Full time | Remote | United States | L |
| 10000 | 2021 | Principal Data Scientist | Data Science and Research | USD | 151000 | 151000 | United States | Mid level | Full time | Remote | United States | L |
| 10001 | 2020 | Data Scientist | Data Science and Research | USD | 100000 | 100000 | United States | Entry level | Full time | Remote | United States | S |
| 10002 | 2020 | Business Data Analyst | Data Analysis | USD | 100000 | 100000 | United States | Entry level | Contract | Remote | United States | L |

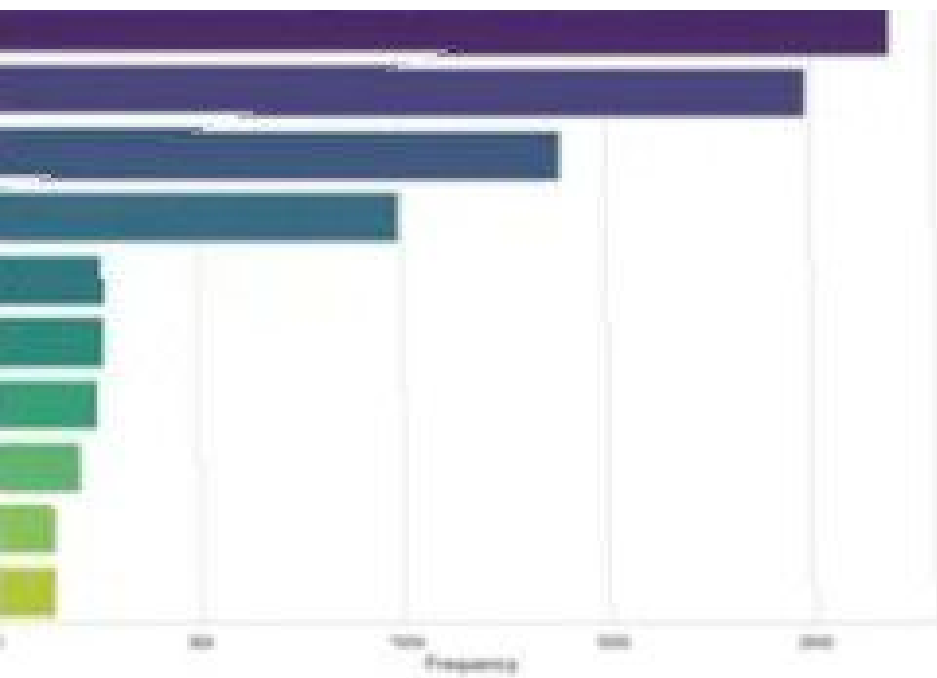
10000 rows x 13 columns

| | job title | job category | salary currency | employee address | experience level | employment type | work setting | company location | company size |
|------|---------------|---------------------------|-----------------|------------------|------------------|-----------------|--------------|------------------|--------------|
| row1 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| row2 | 111 | 11 | 11 | 11 | 1 | 1 | 1 | 11 | 1 |
| row | Data Engineer | Data Science and Research | USD | United States | Senior | Full-time | Hybrid | United States | 501-999 |
| row | 1111 | 0011 | 0000 | 0000 | 0100 | 0100 | 0100 | 0111 | 0111 |

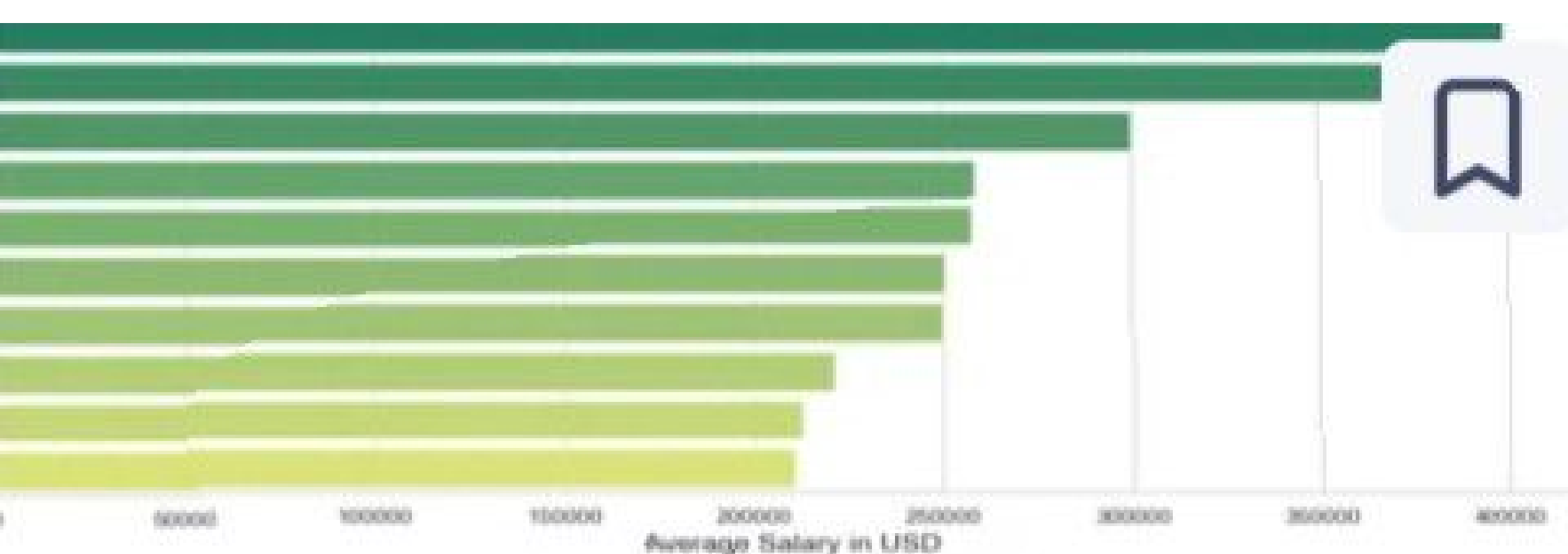
Average Salary in USD by Year



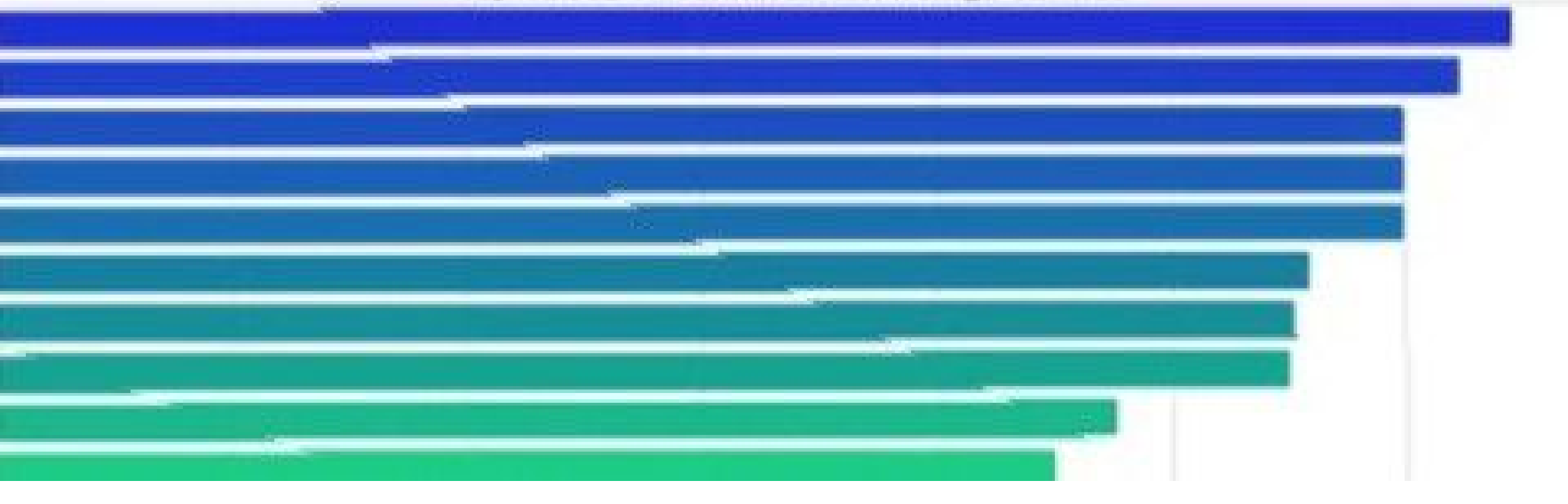
AVERAGE SALARY IN USD BY YEAR



Frequency of top 10 job titles



Top 10 Job Titles with Least Average Salaries



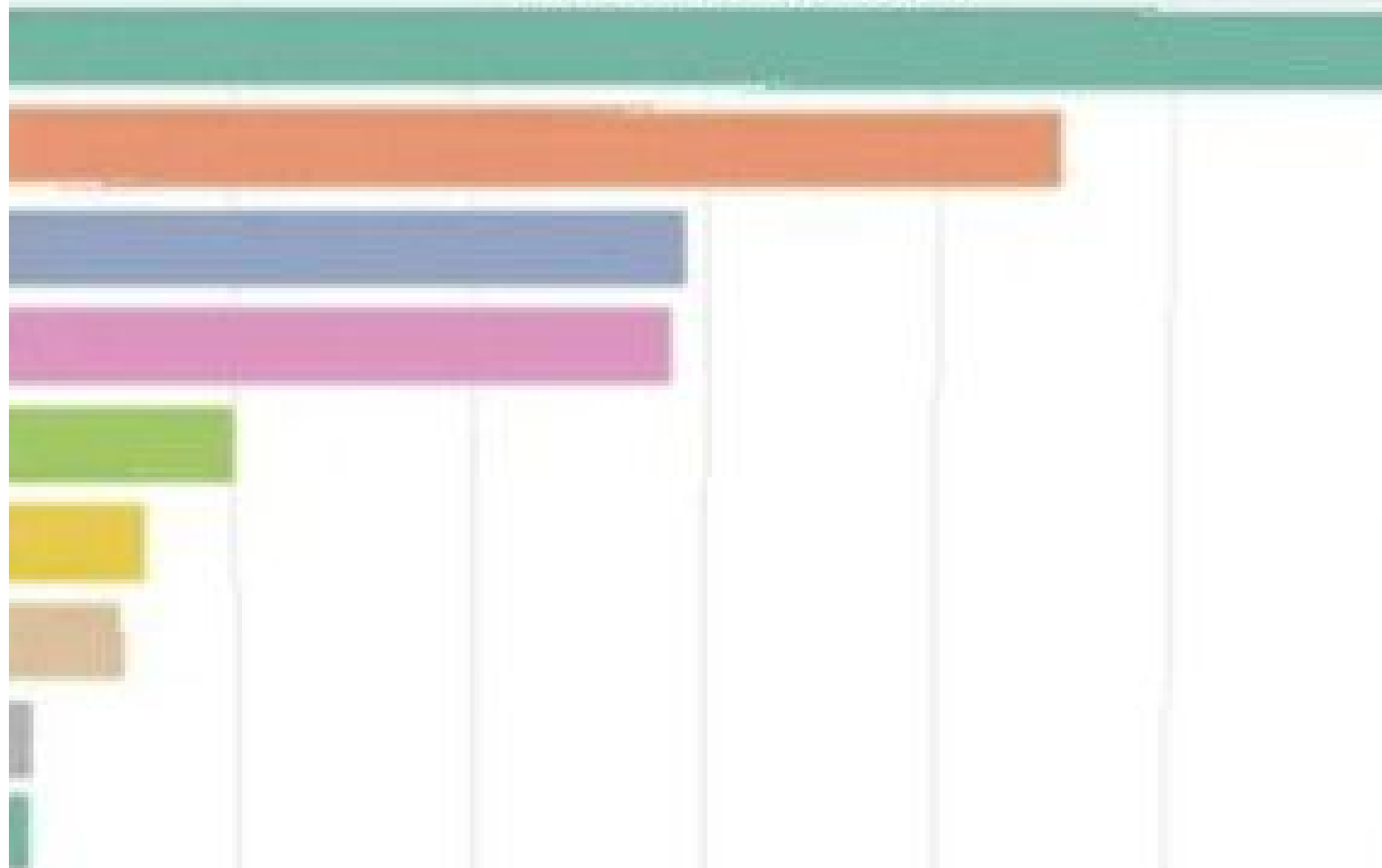


A group of business professionals in a meeting, with a man in the foreground pointing at a screen.

Don't just meet the future
of the market—shape it.

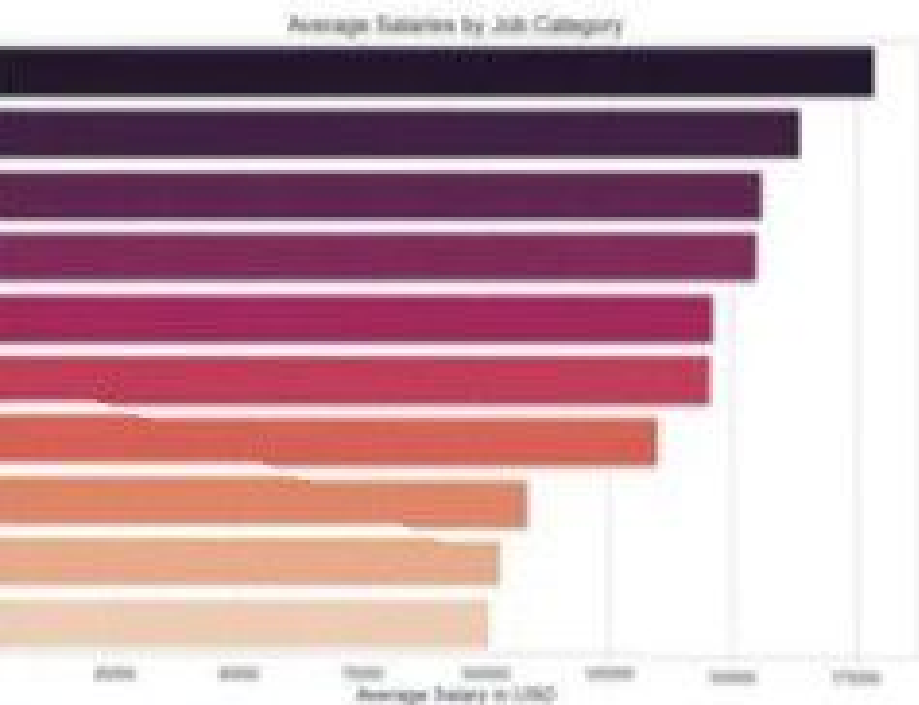
Our team's experience and
predictive business
intelligence framework
ensure optimal market
positioning.

Distribution of Job Categories

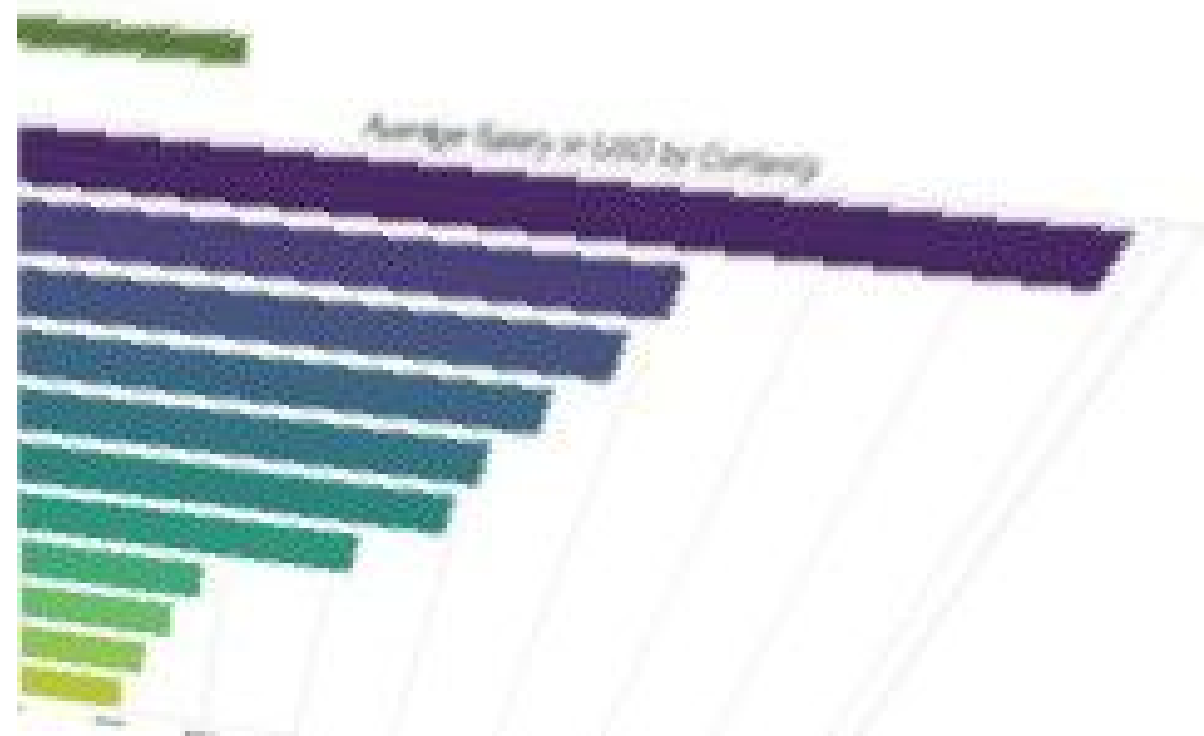


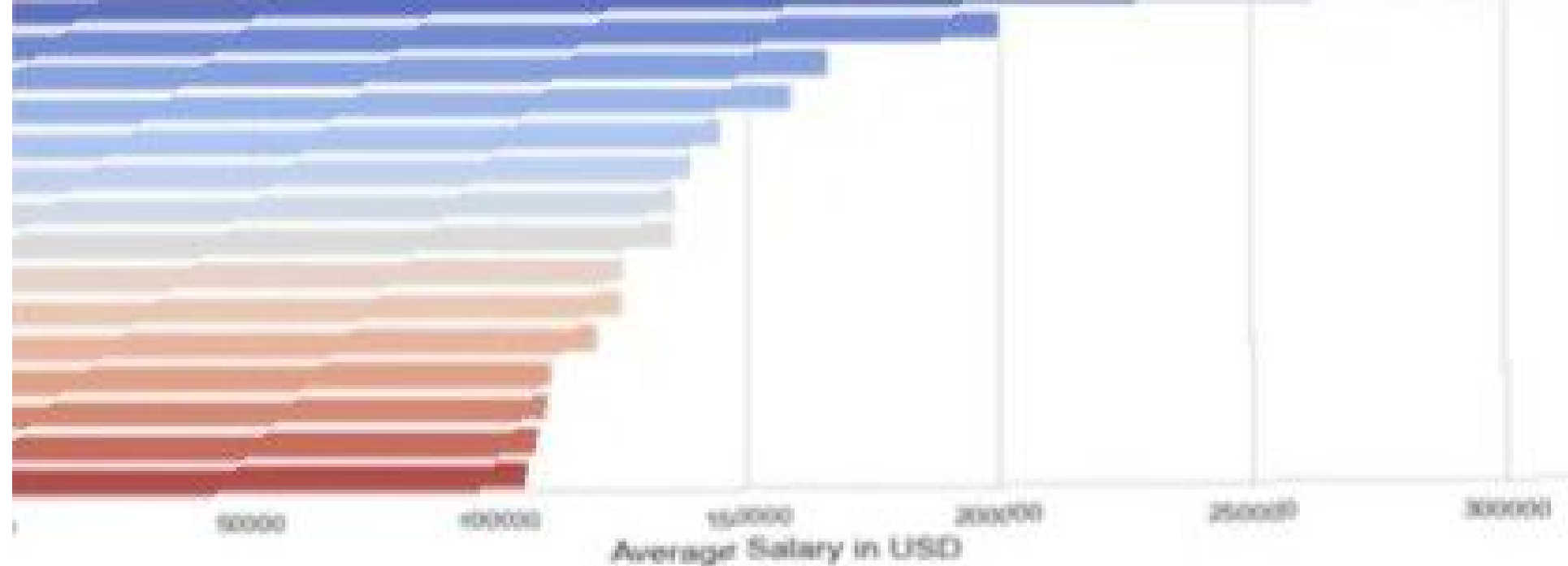


Average Salaries by Job Categories

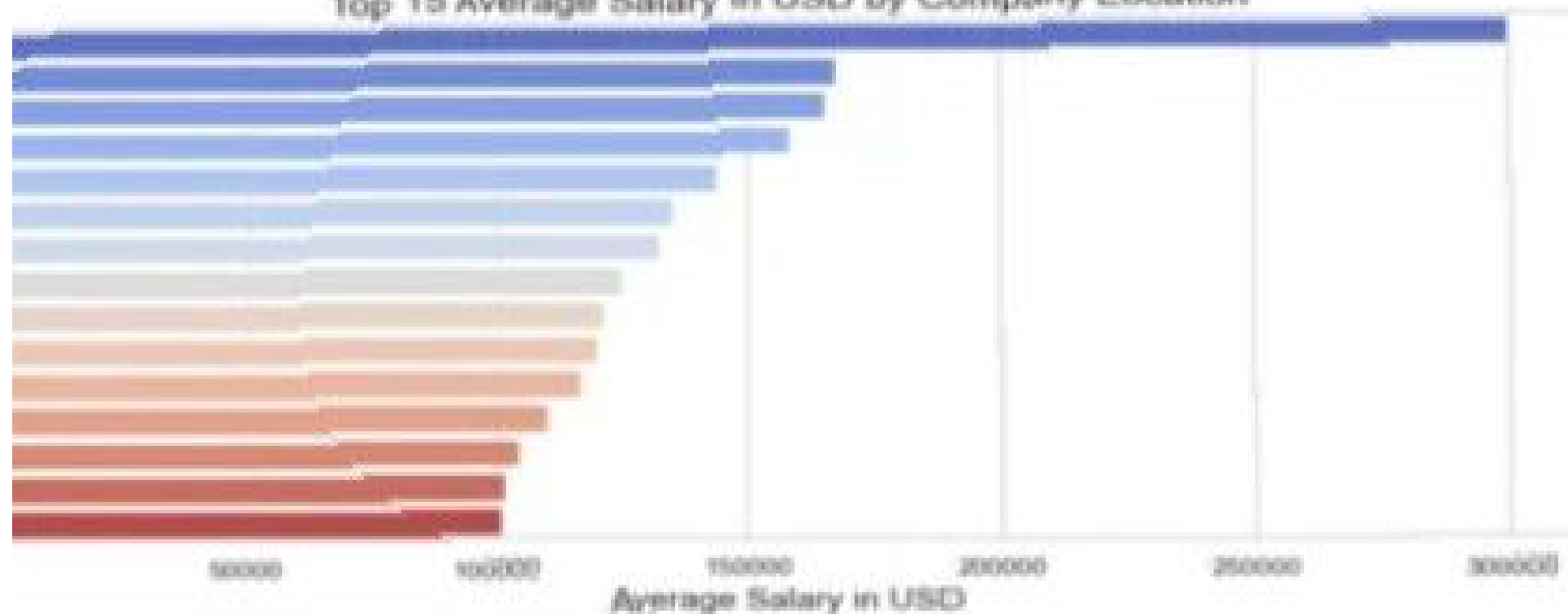



Average Salary in USD by Country





Top 15 Average Salary in USD by Company Location



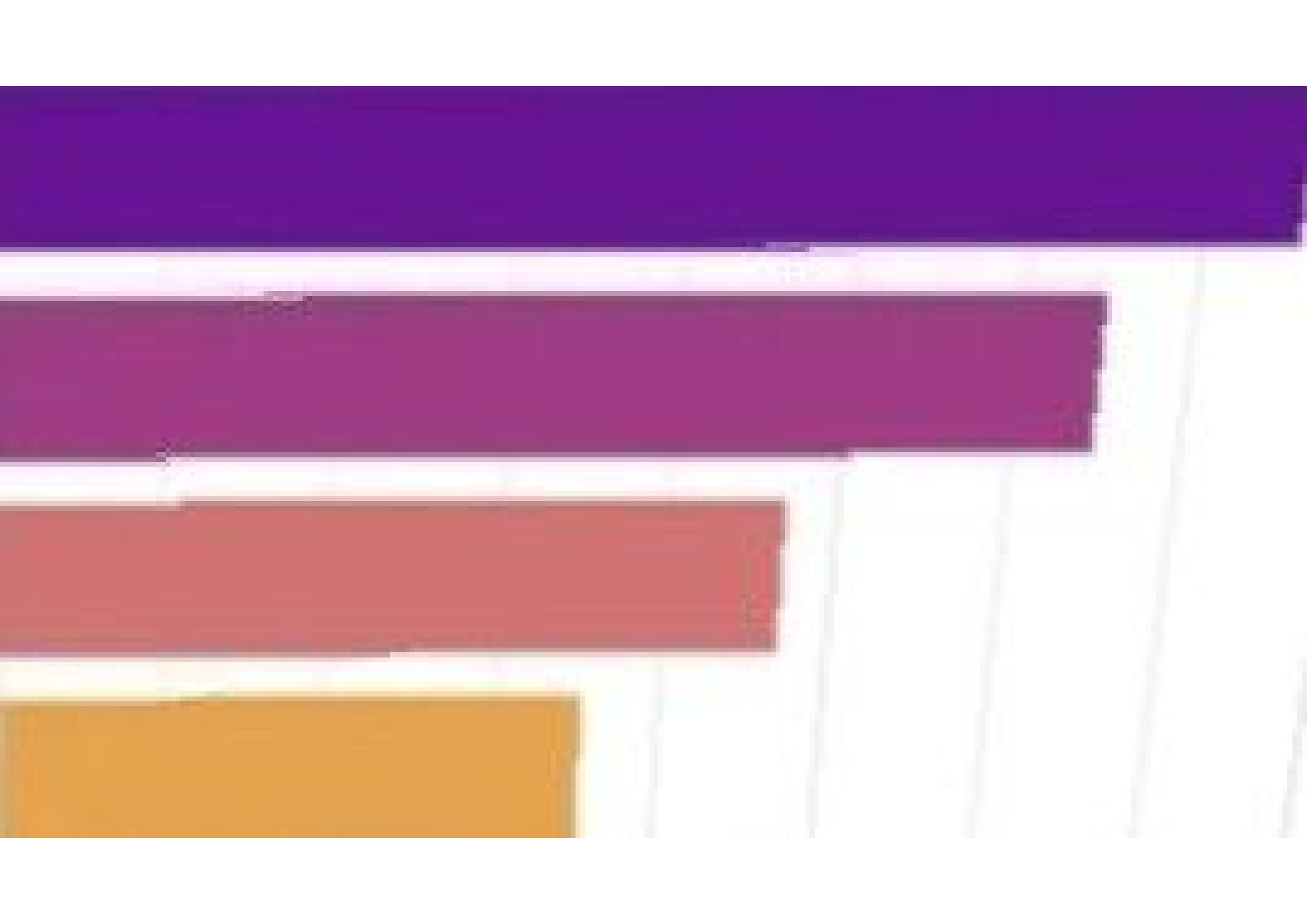
A background image showing two medical professionals, a man and a woman, in white coats and stethoscopes, engaged in a conversation. The image is overlaid with a semi-transparent orange filter.

Navigate this complex
medical and scientific
environment with ease.

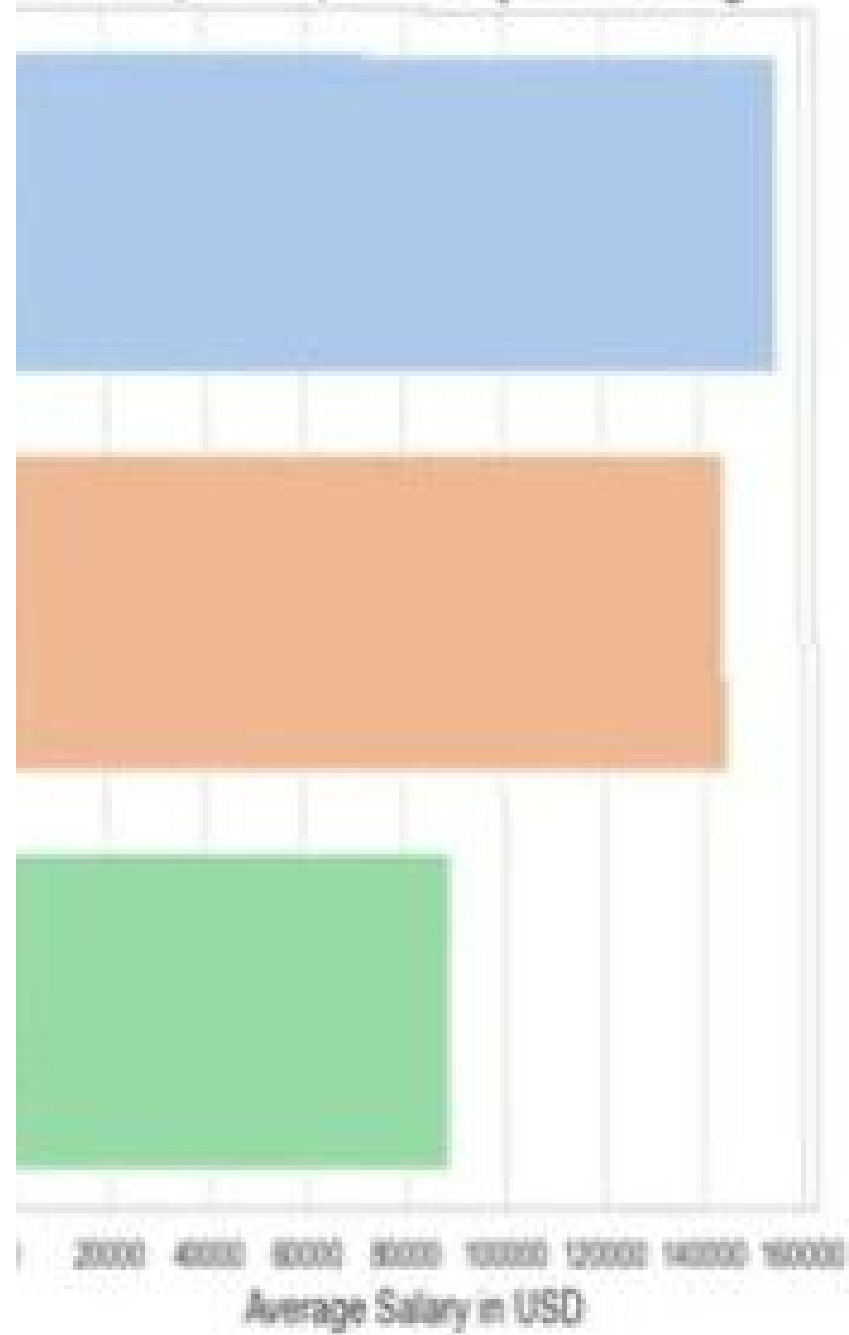
Our innovative, predictive,
and pragmatic Medical
Affairs solutions help you
traverse real-life challenges.

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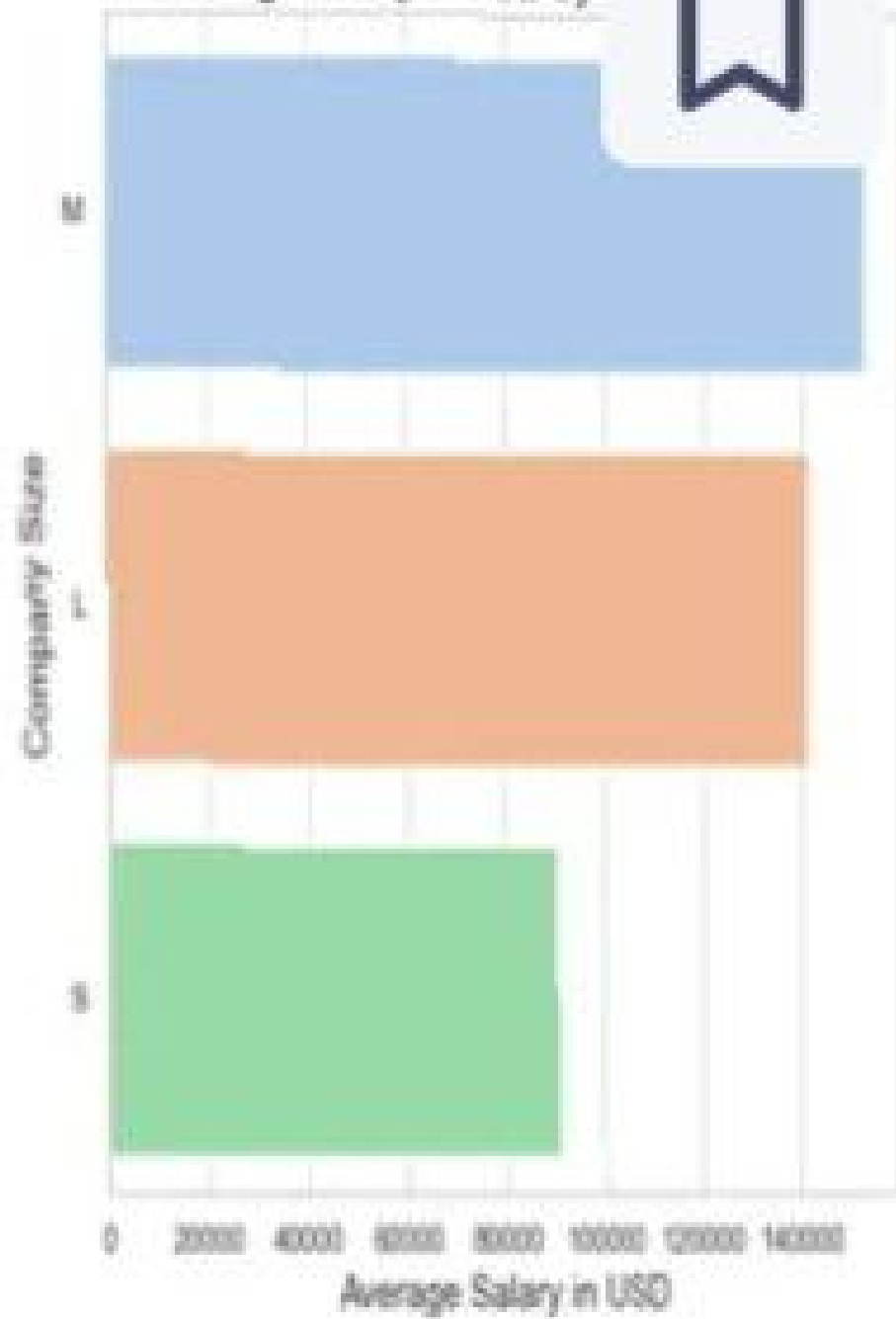

Syneos.
Health



Average Salary in USD by Work Setting



Average Salary in USD by



Thank you

