

Global Data Scientist market demand analysis

Indeed Web Scraping

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Best places for Data Science Career Opportunities



Scraping indeed: From the spider to the dataset

Main challenges:

1. Javascript modifying class names
2. Scraping and processing multi- country data
3. Limit to 1000 postings per search

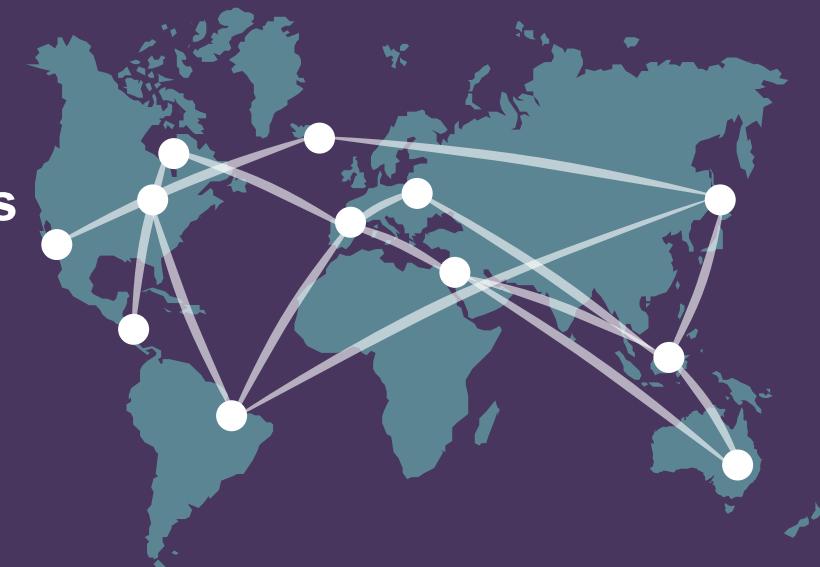


Solutions:

1. Turn off Javascript in chrome
2. List of world wide links
3. Breaking down search results:
 - Filter: jobs <30 days
 - 3 job levels: entry, mid, senior
 - Iterate over the 15 top cities (number of postings)

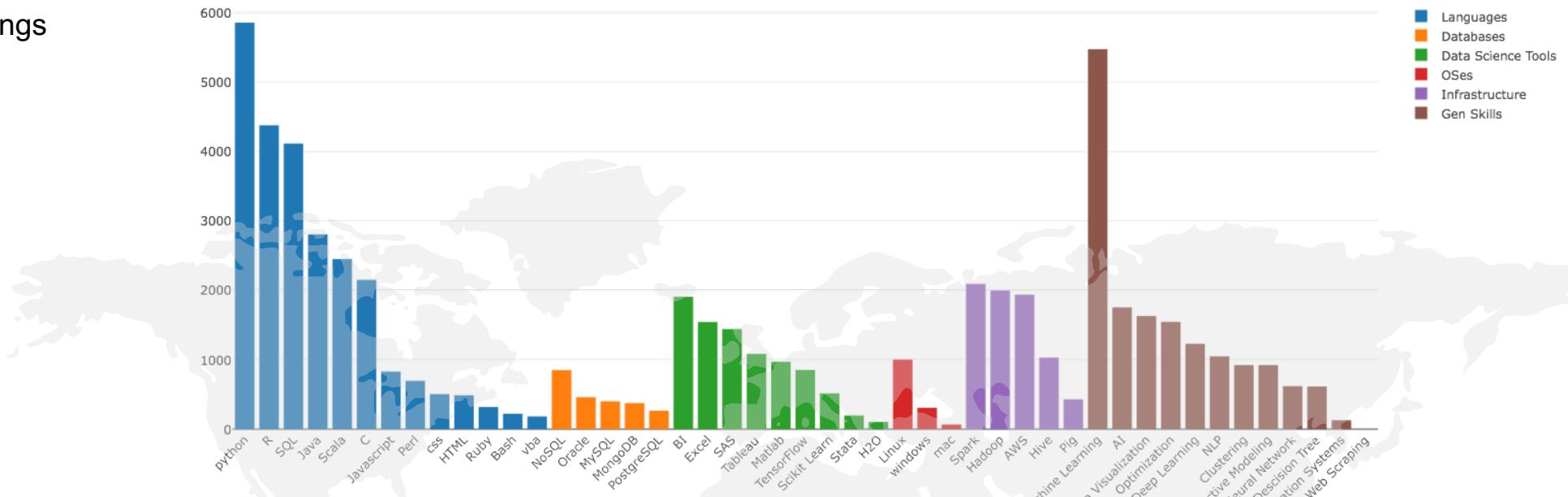
The dataset:

~50 Mb
14263 rows/job postings
58 countries
1144 cities

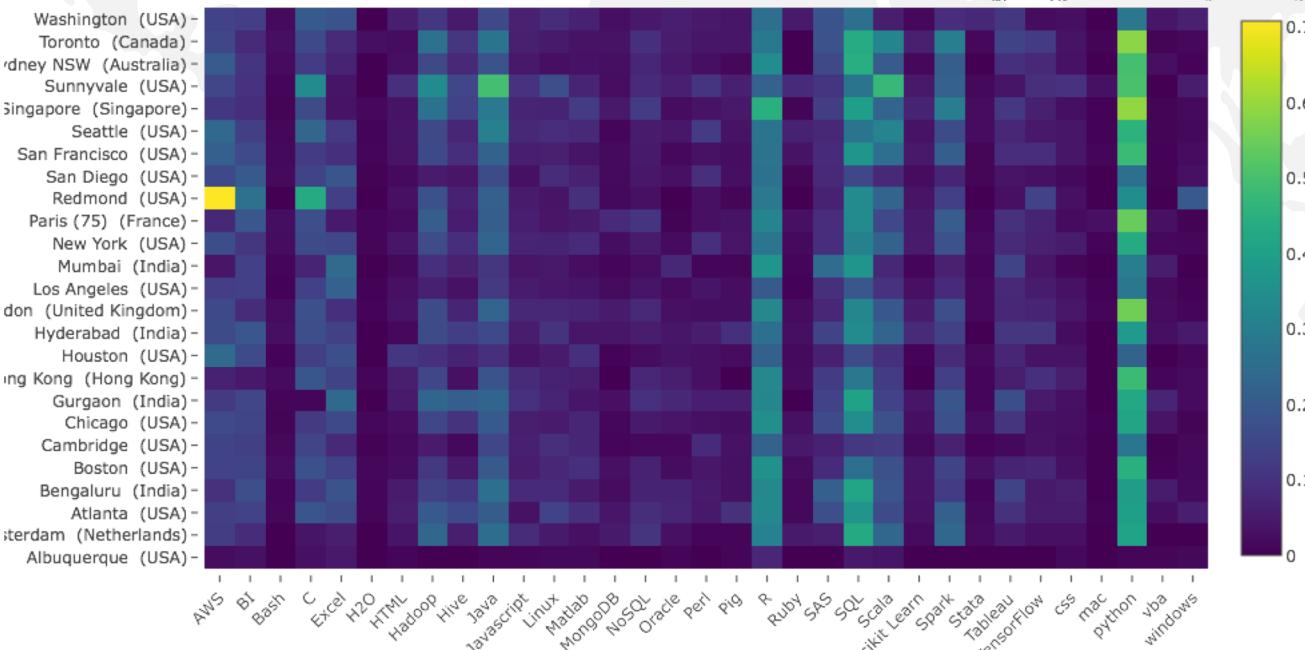


Do the skill requirements vary depending on the location?

All job postings

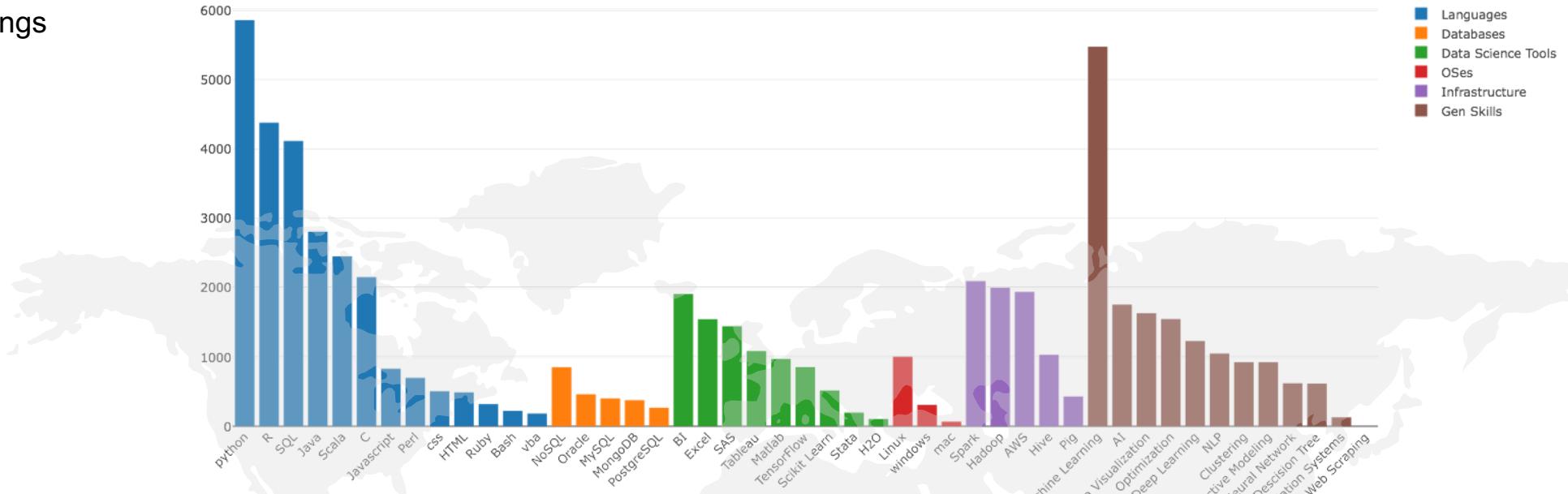


Top 25 cities

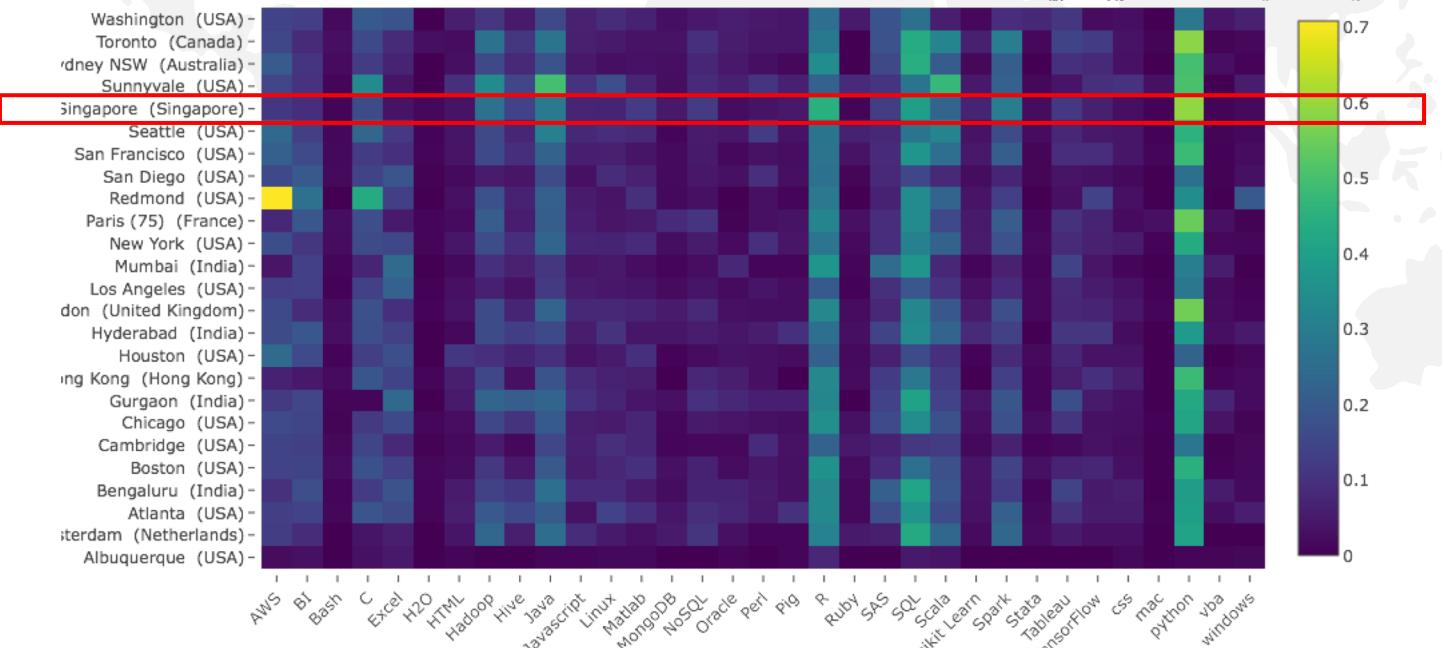


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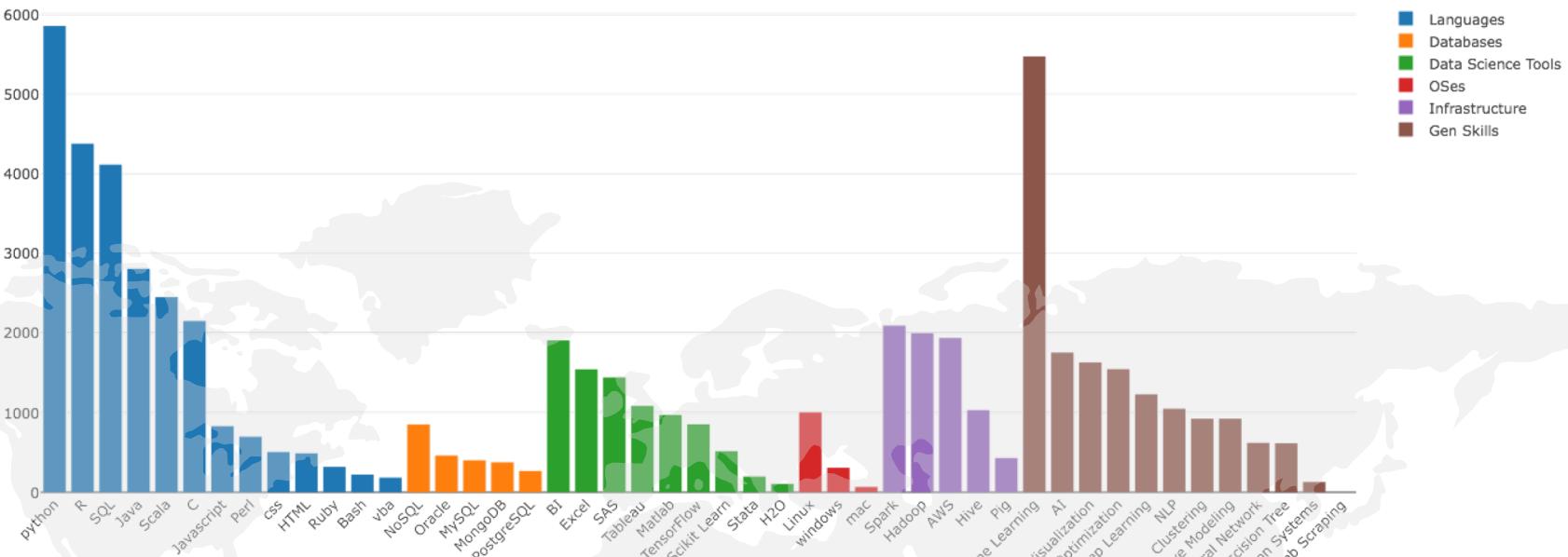


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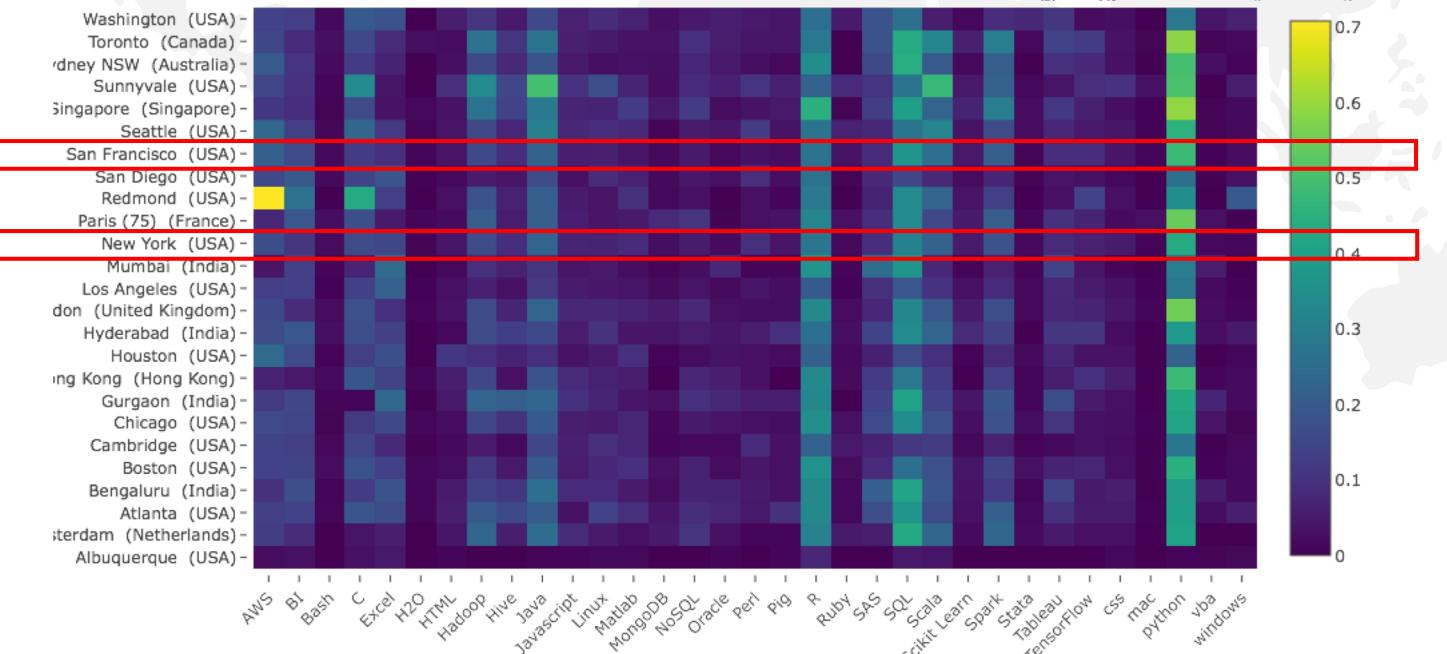


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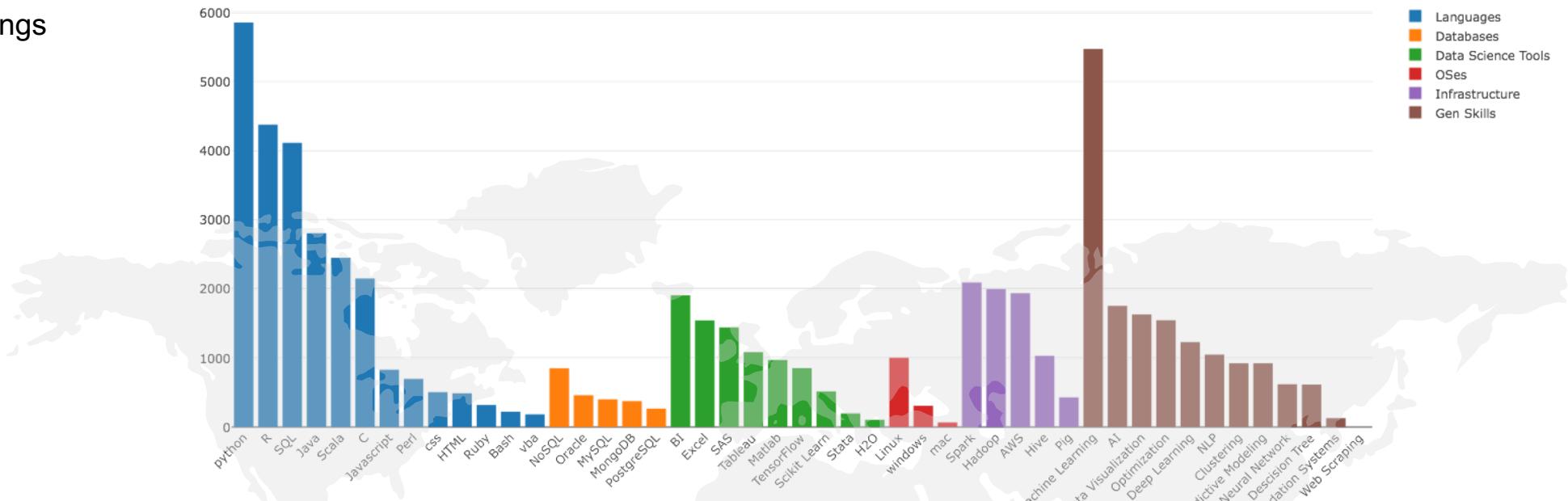


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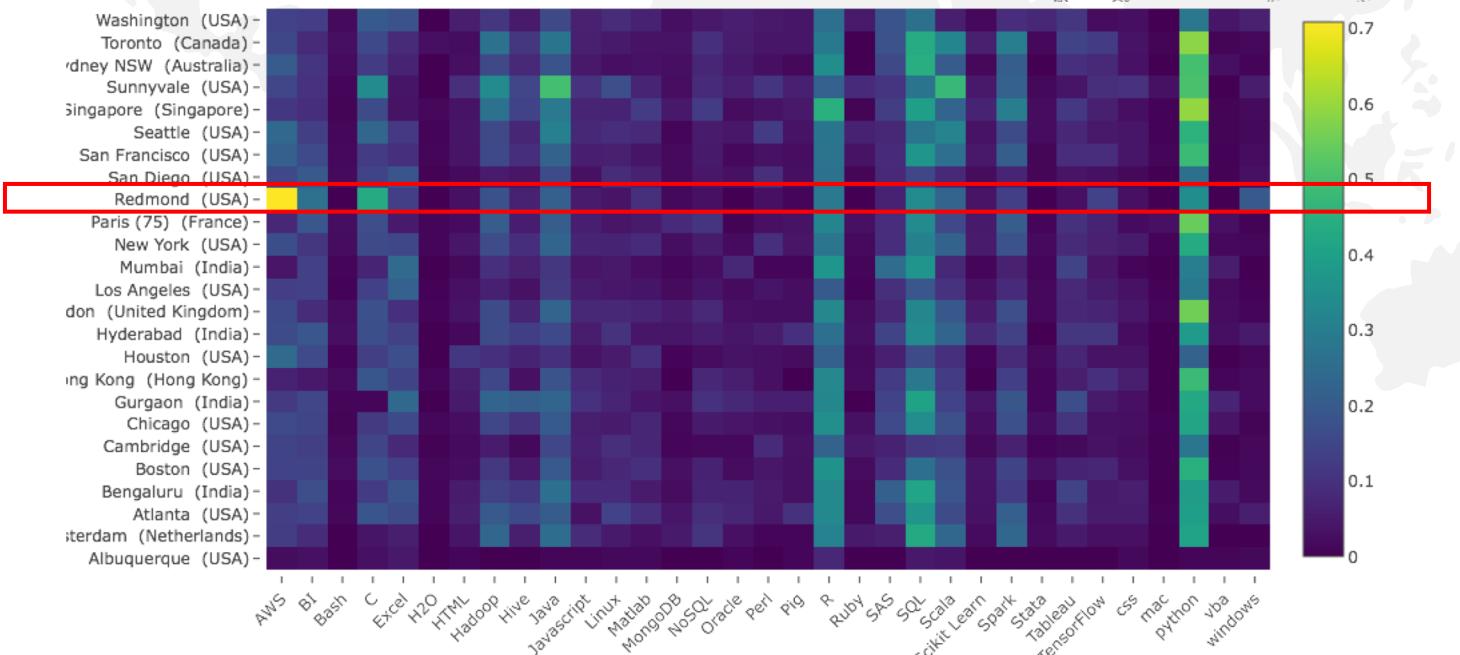


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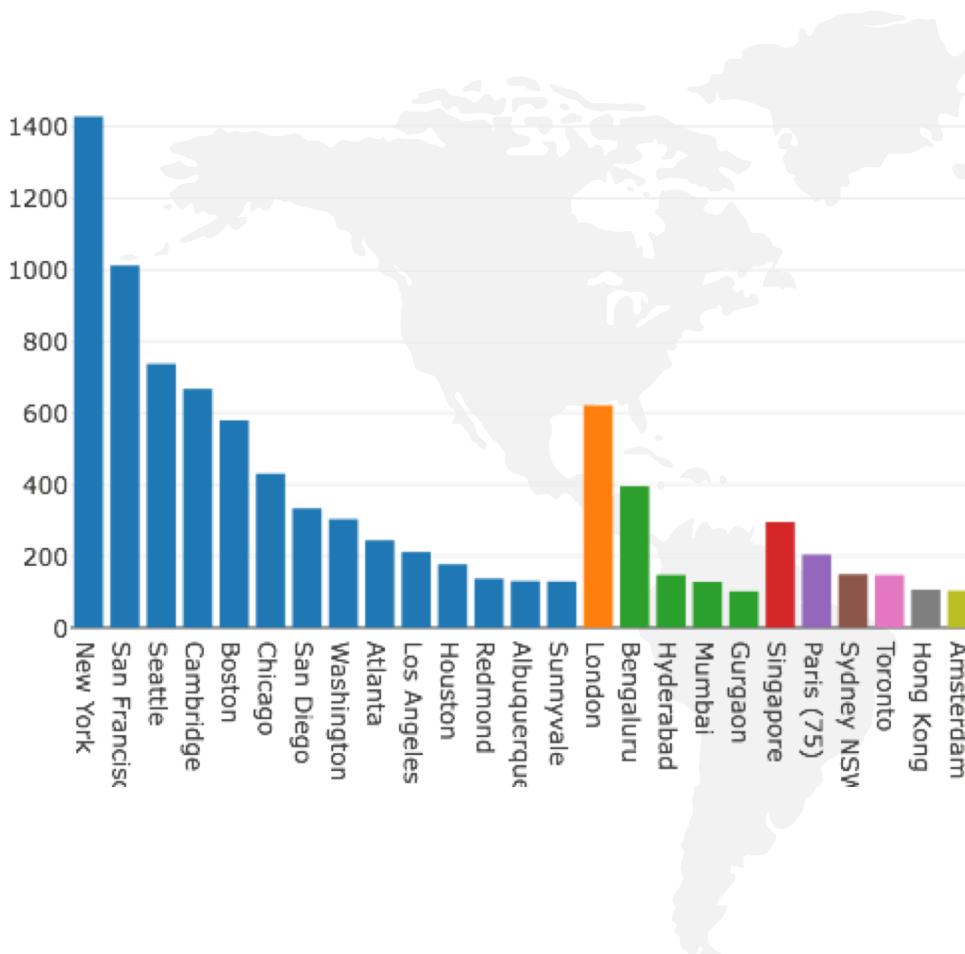
Top 25 cities



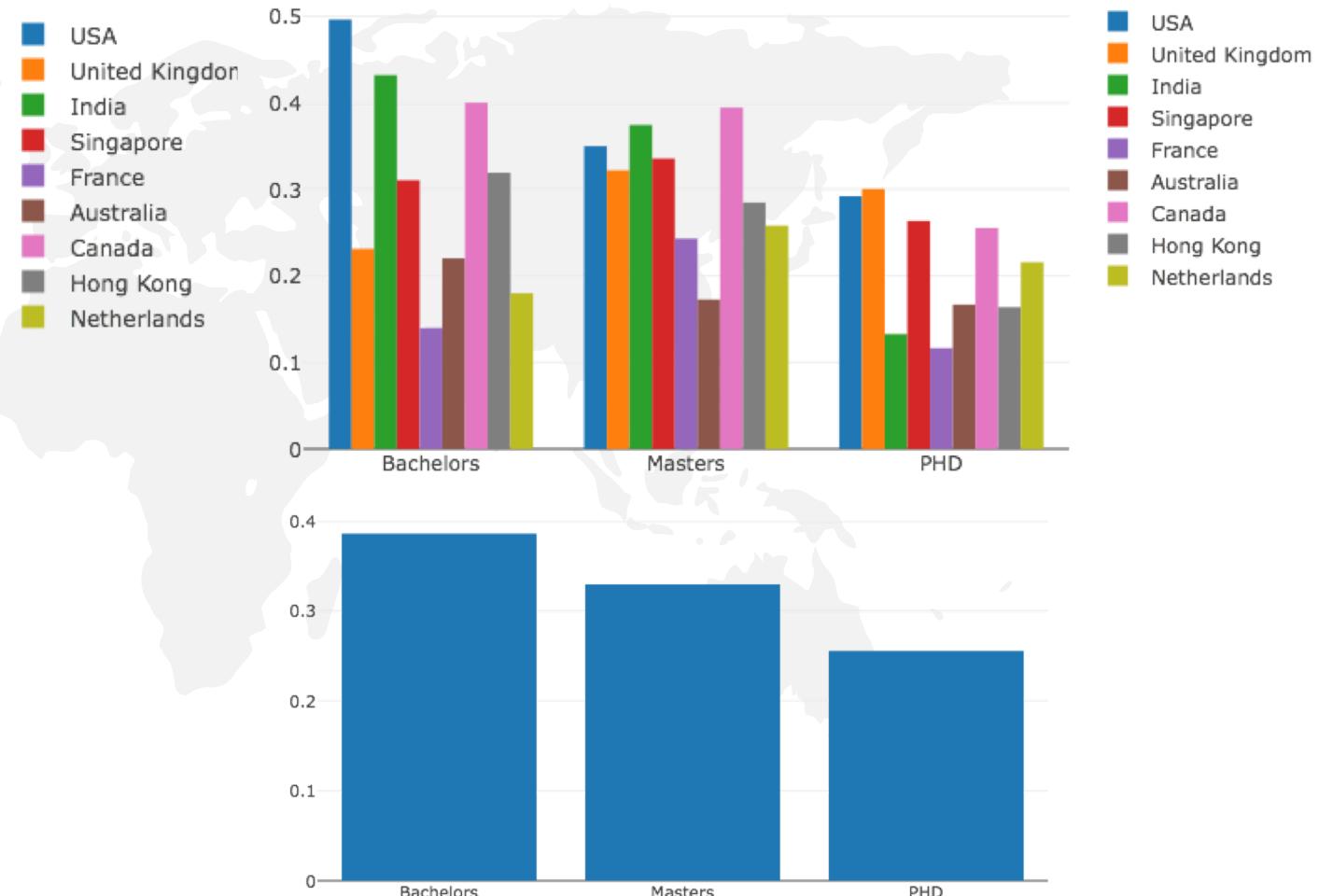
knowledge problem solving department group
product data analytic data scientist
data mining service study report activity market
laboratory technology model performance software development
process industry communication skill manage lead
develop professional system expertise client delivery
area platform customer project
data deep learning science application
team member data set research data management partner

Demand for Data Science Positions and Degrees

All job postings

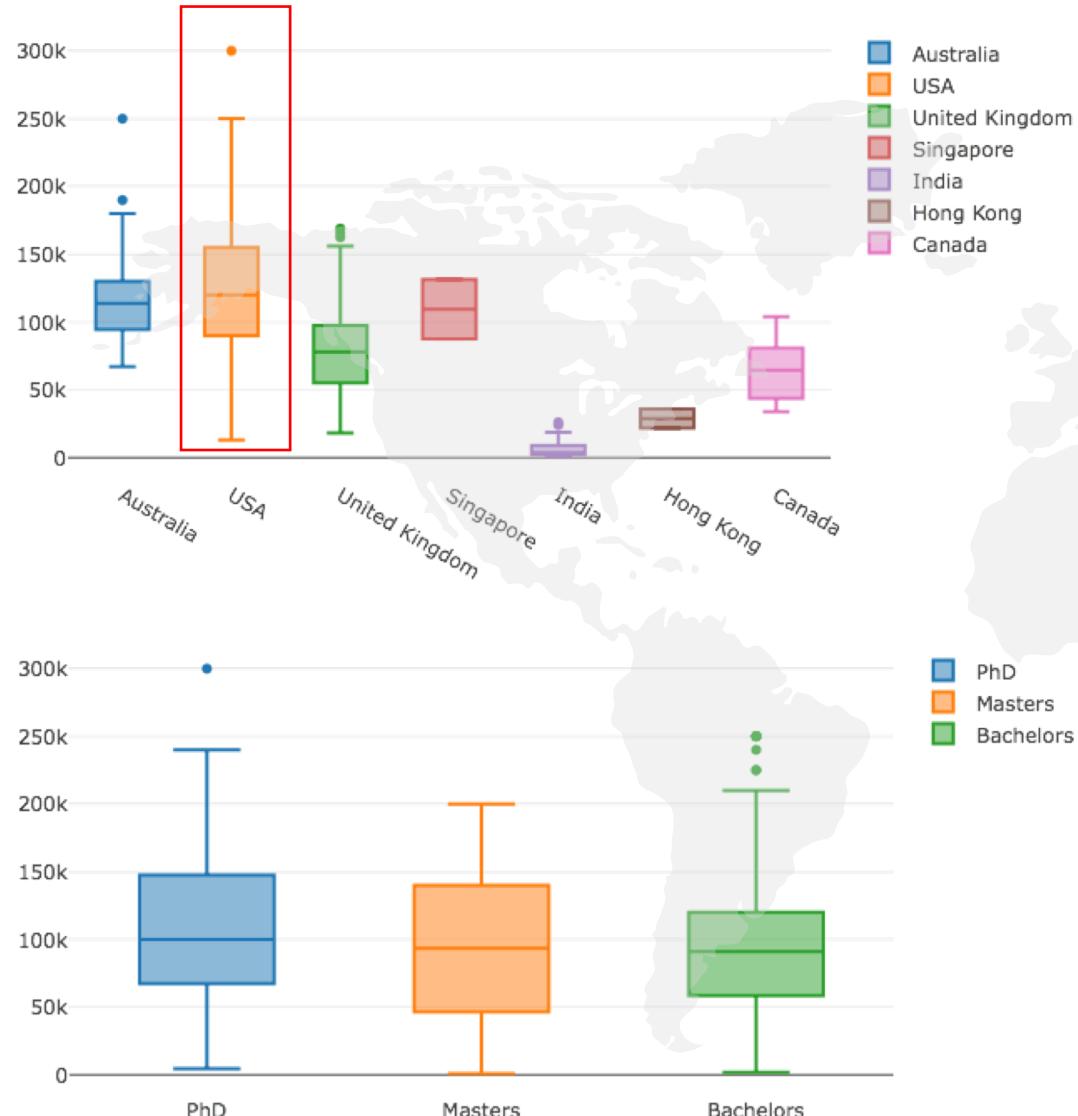


Top 9 countries represented by the top 25 cities

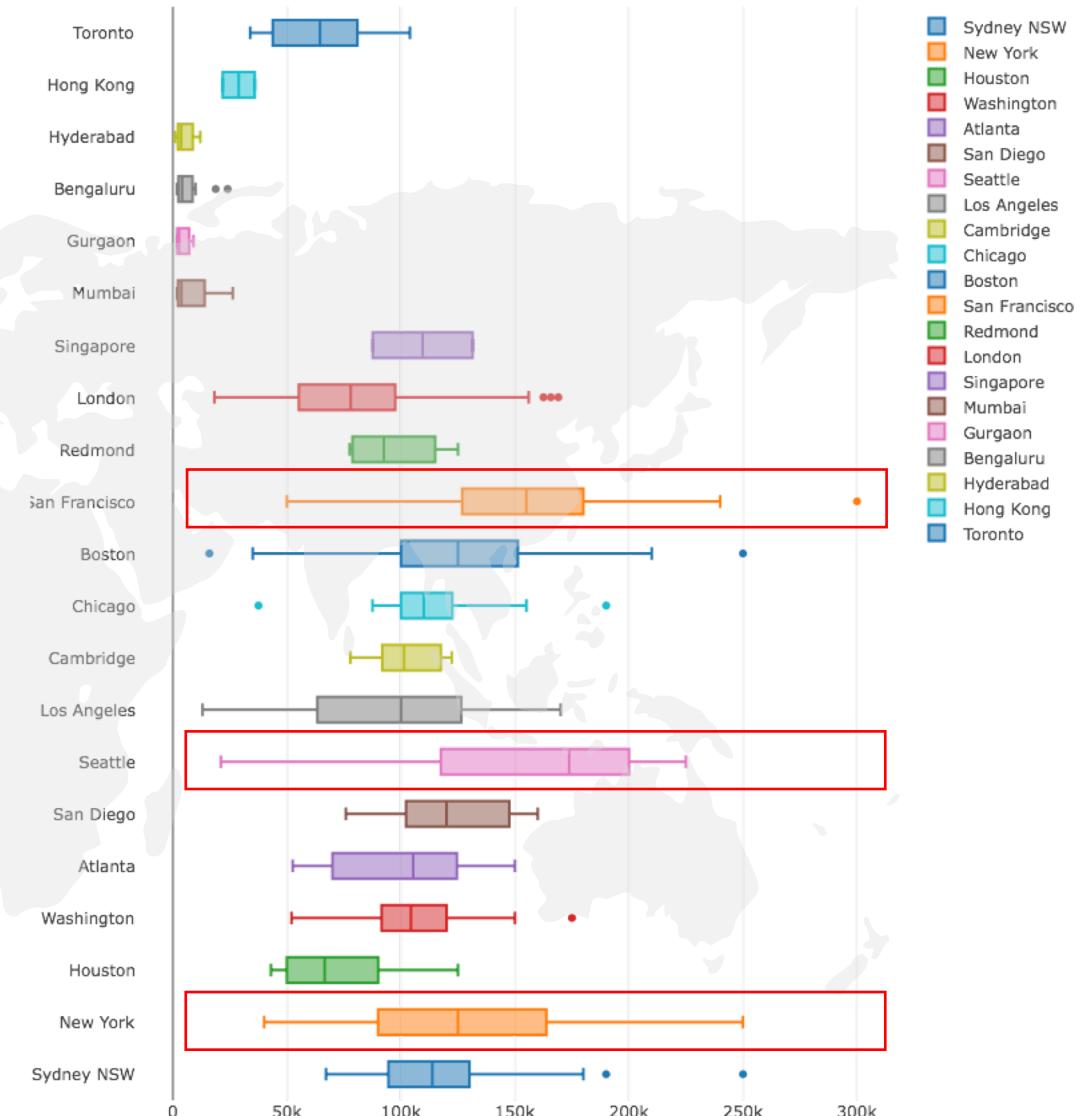


Highest paying jobs by location and degree

Top 7 countries represented by the top 25 cities

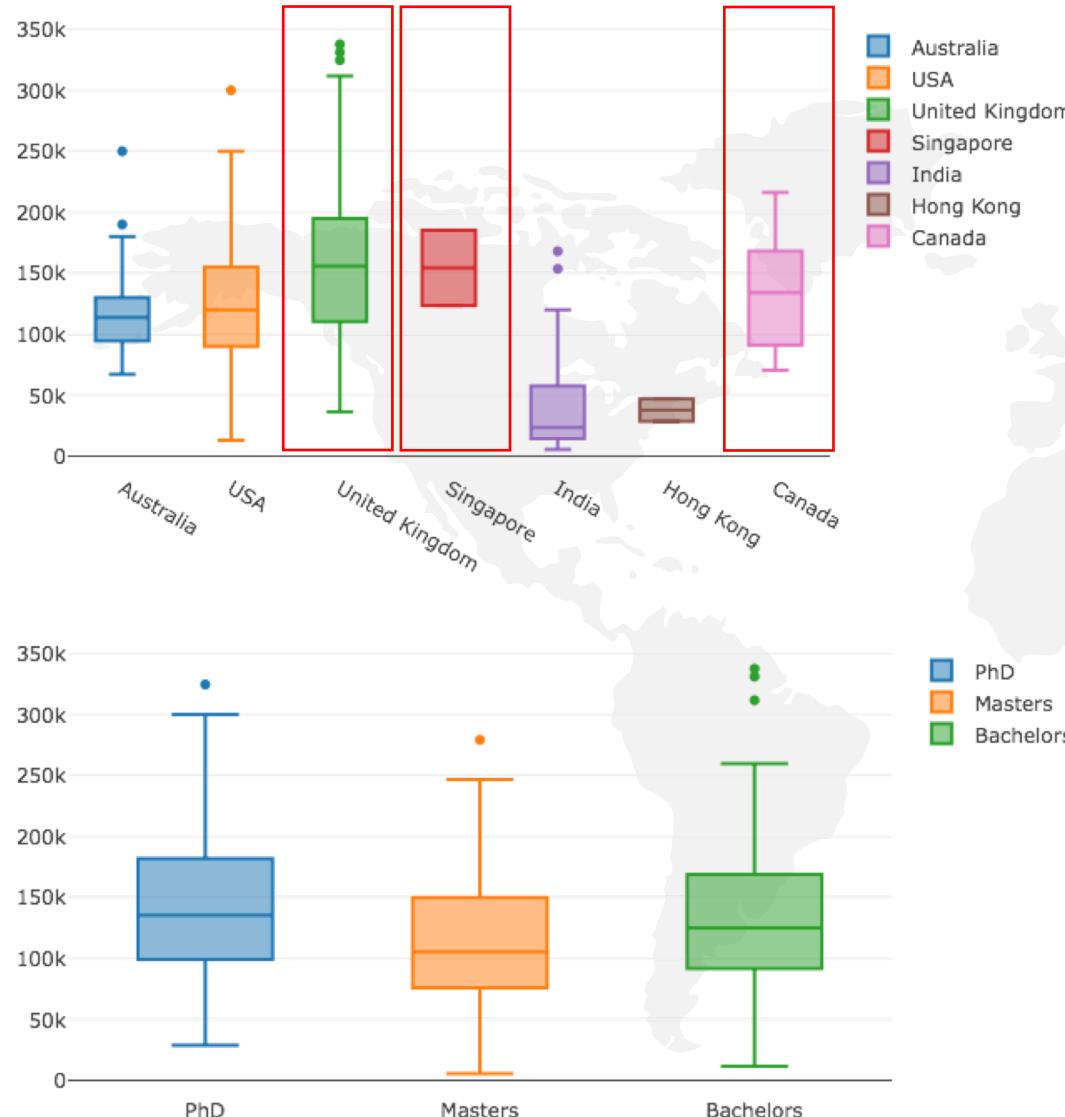


~ 10% jobs postings

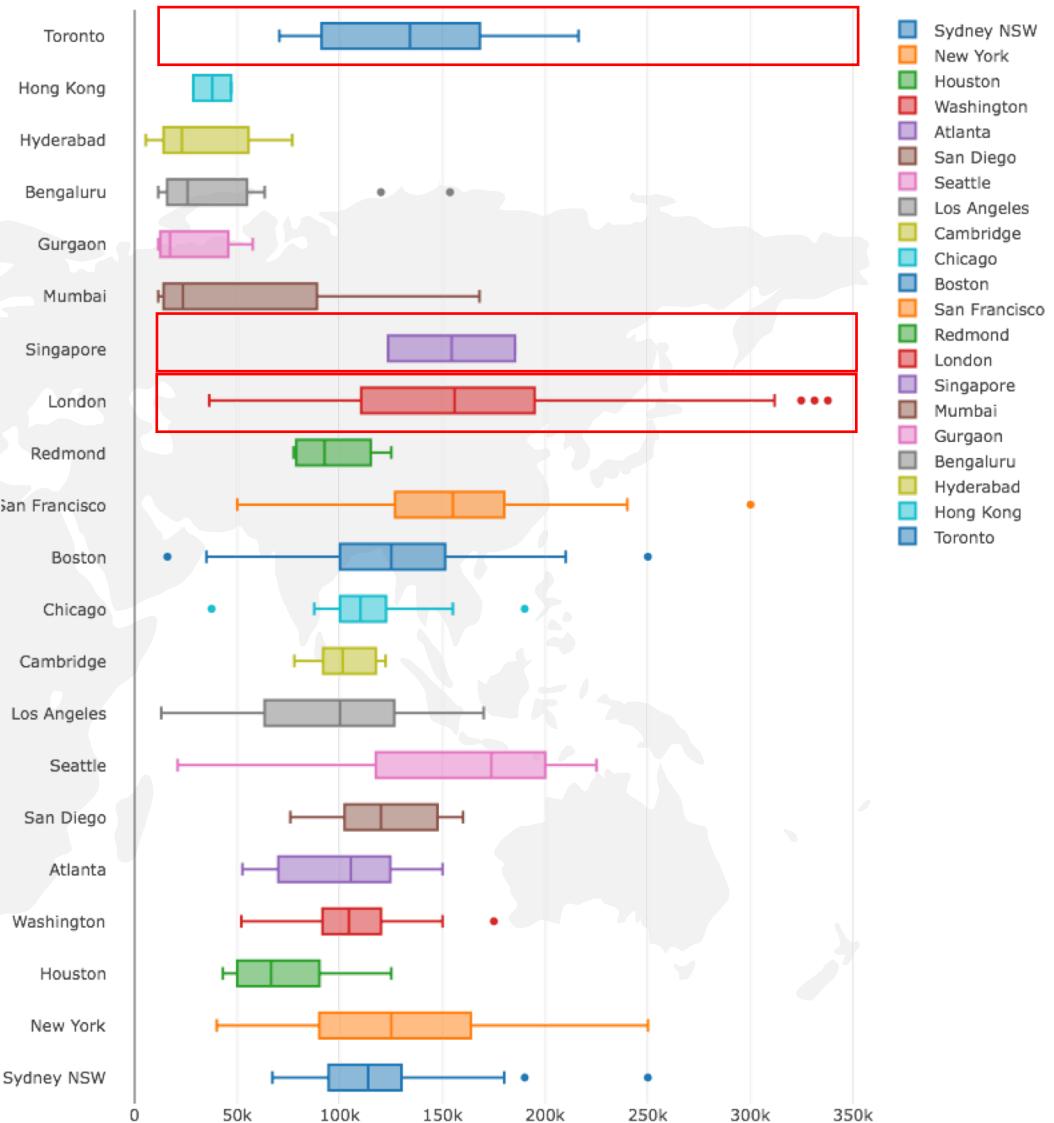


Highest paying jobs by location and degree

Top 7 countries represented by the top 25 cities

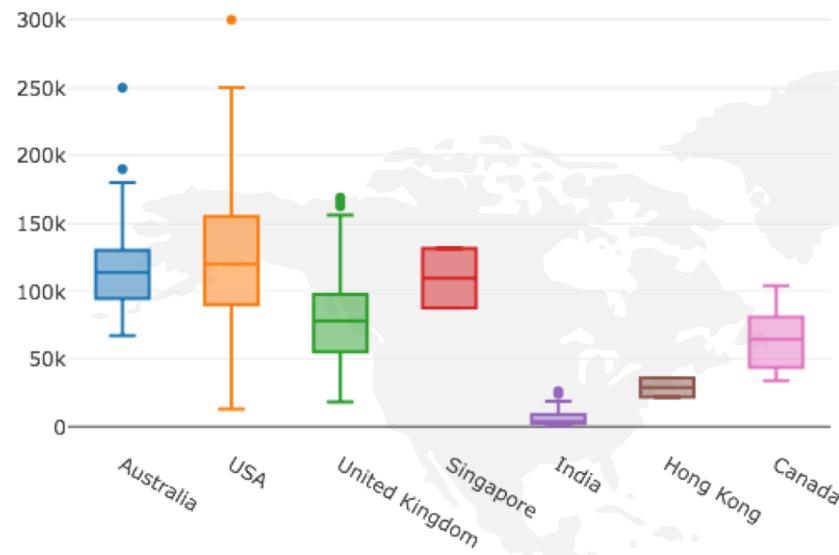


Normalized per cost of living and rent

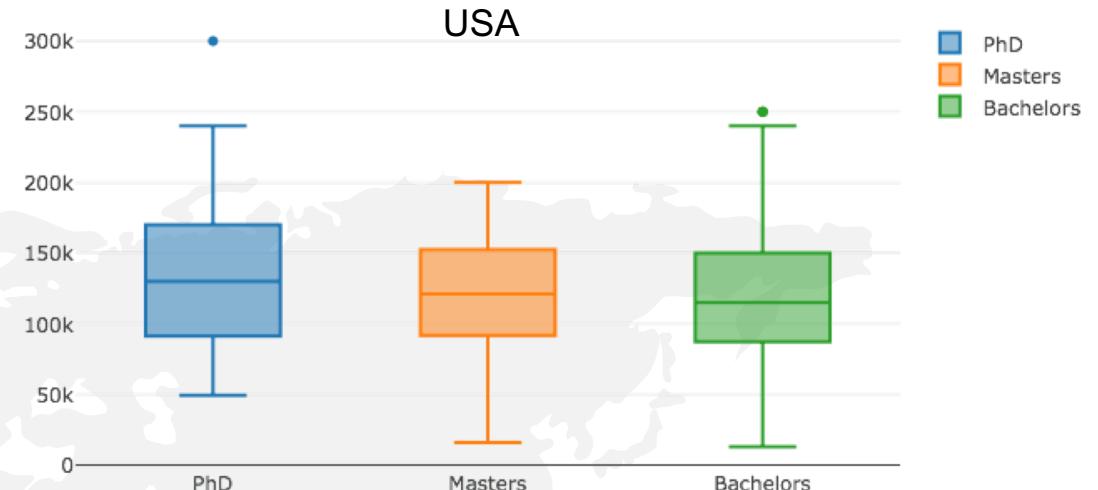


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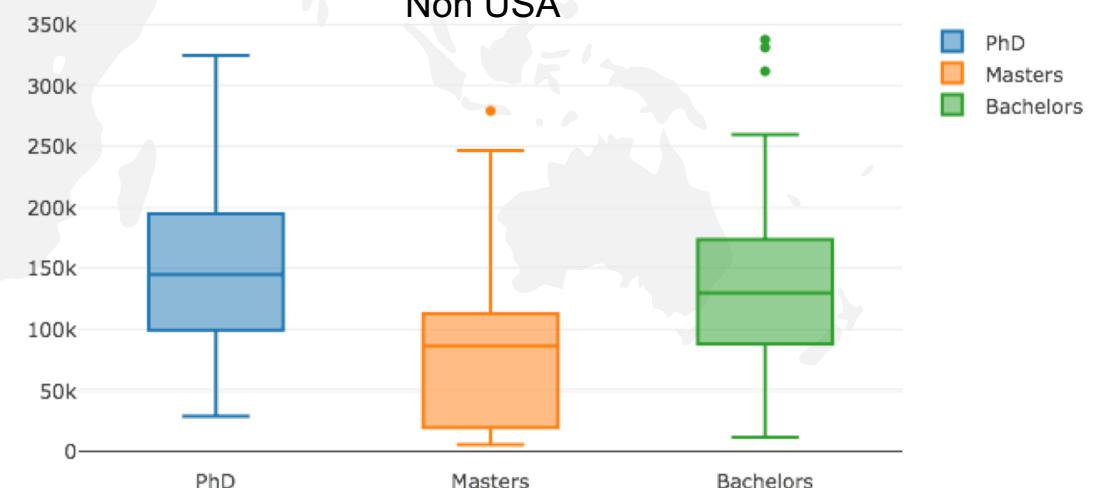
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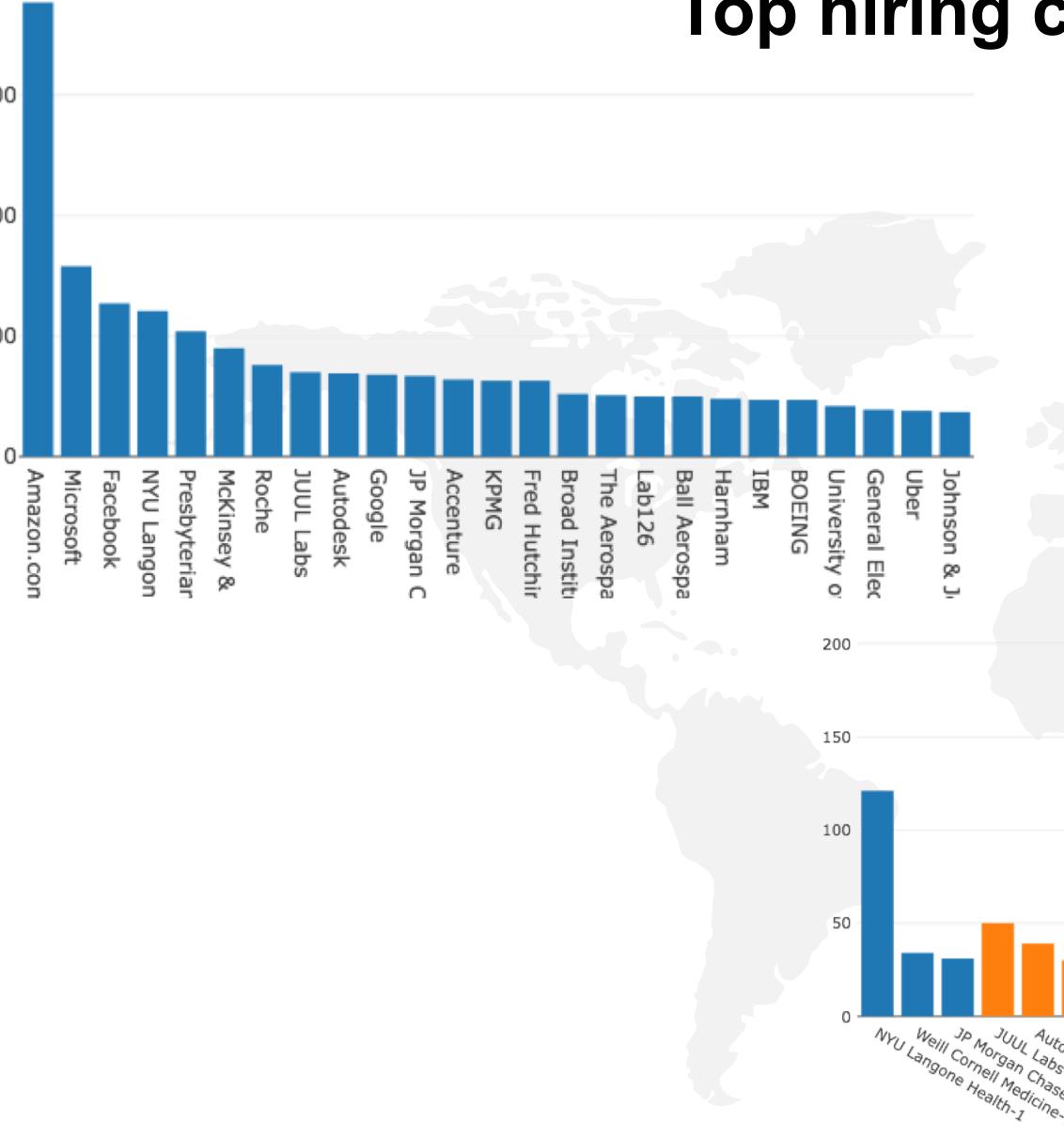


Non USA

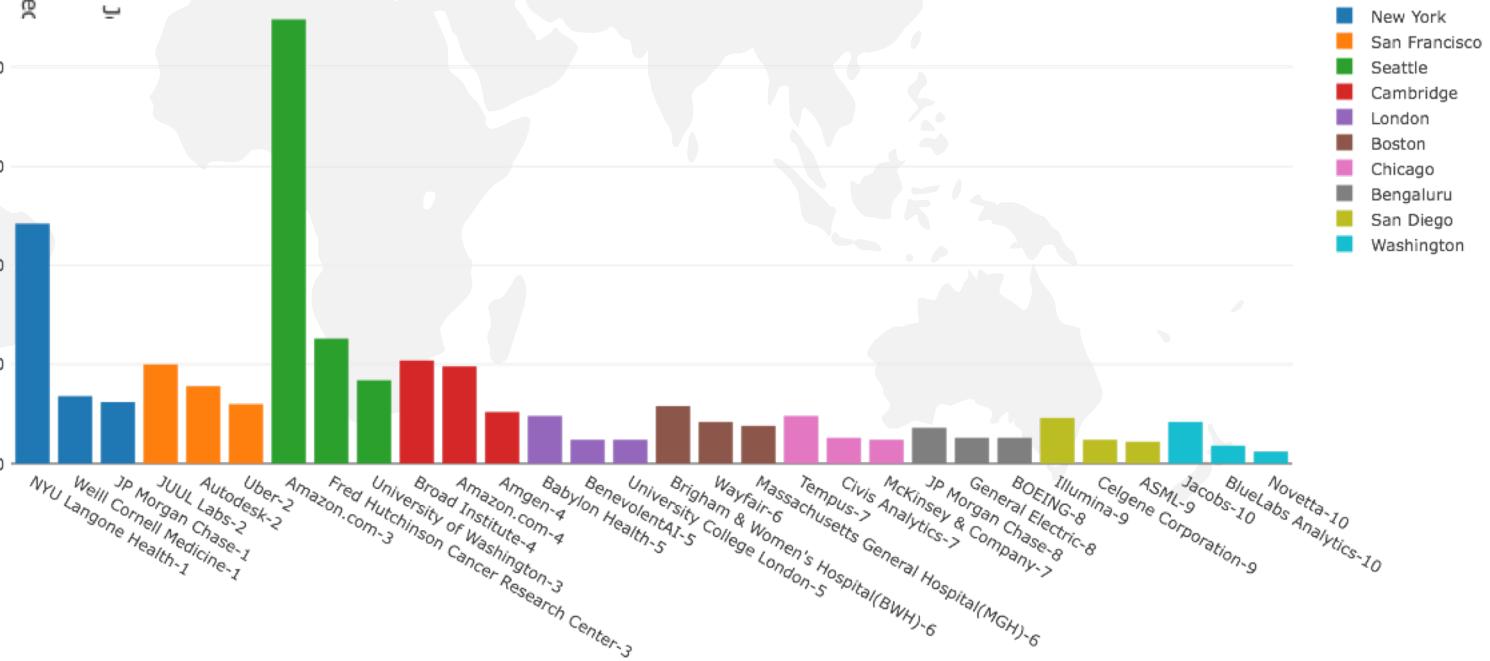


All job postings

Top hiring companies



Top 3 companies for the top 10 cities



Conclusions

- ✓ Skills: Python, R, SQL, ML



Conclusions

- ✓ Skills: Python, R, SQL, ML
- ✓ PhD: USA, UK, Singapore and Canada



Conclusions

- ✓ Skills: Python, R, SQL, ML
- ✓ PhD: USA, UK, Singapore and Canada
- ✓ Highest paying:

- ✓ New York
- ✓ San Francisco
- ✓ Seattle
- ✓ Toronto
- ✓ London
- ✓ Singapore

