

# Global Data Scientist market demand analysis

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## 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)

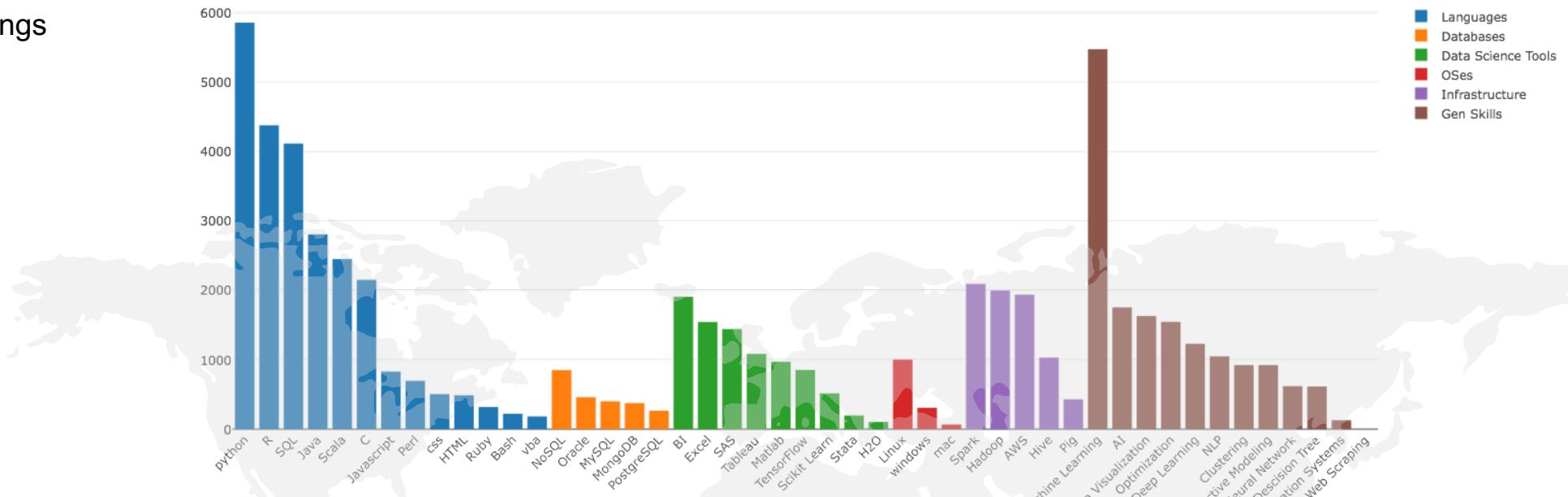
## The dataset:

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

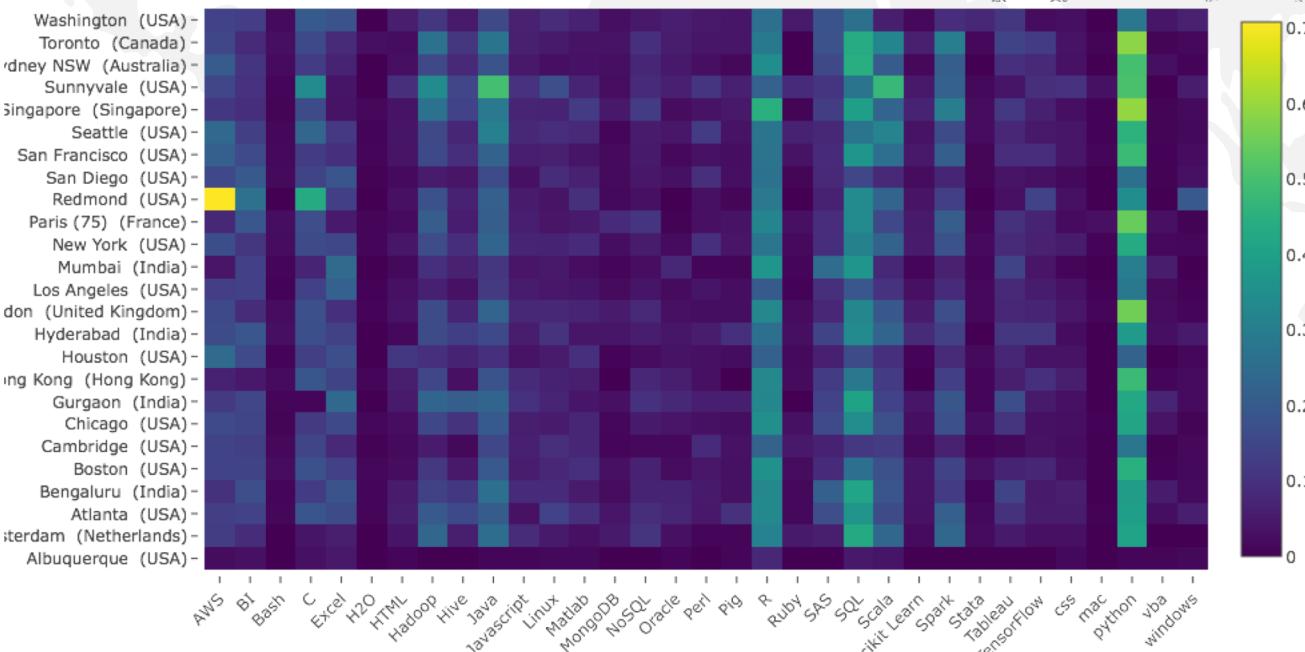


# Do the skill requirements vary depending on the location?

## All job postings

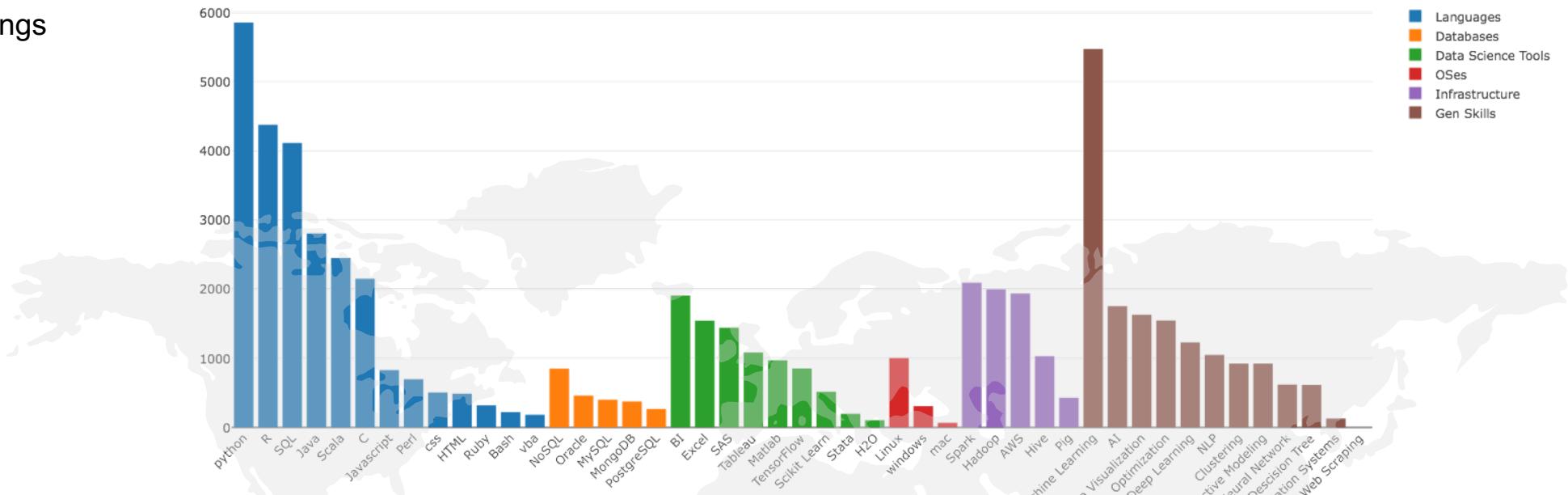


## Top 25 cities

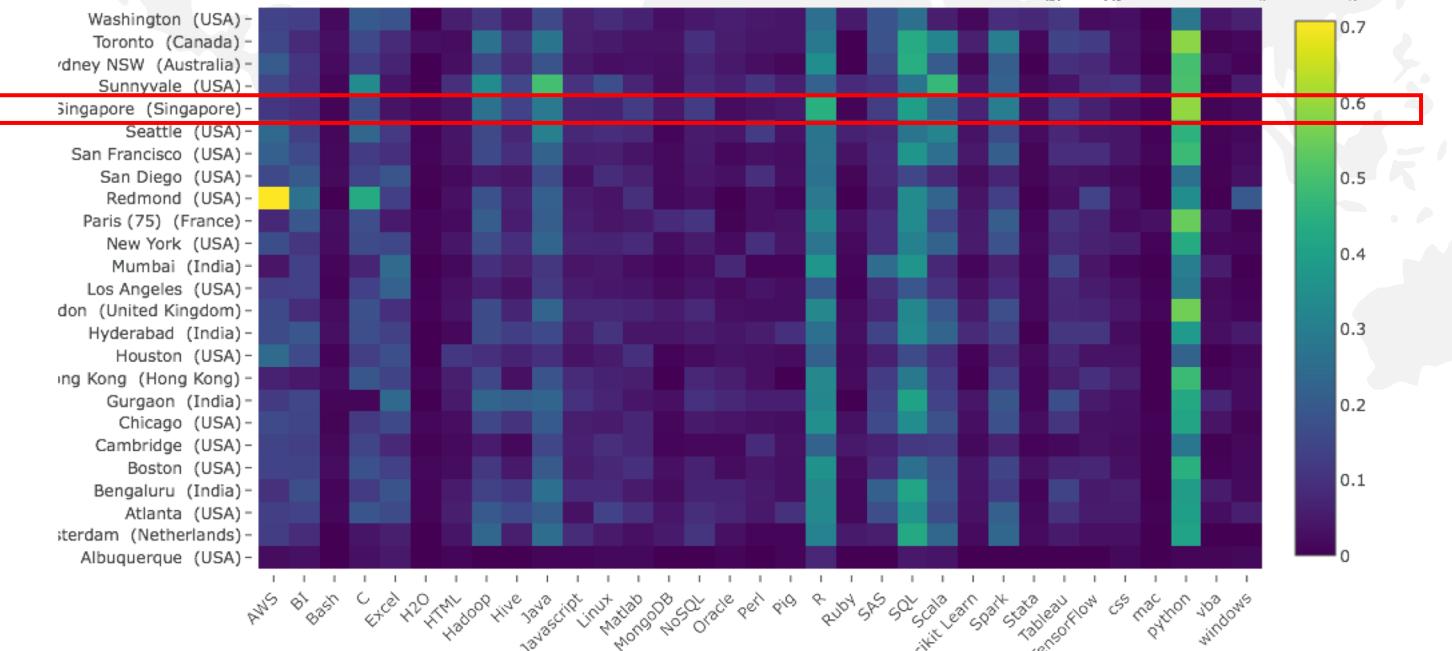


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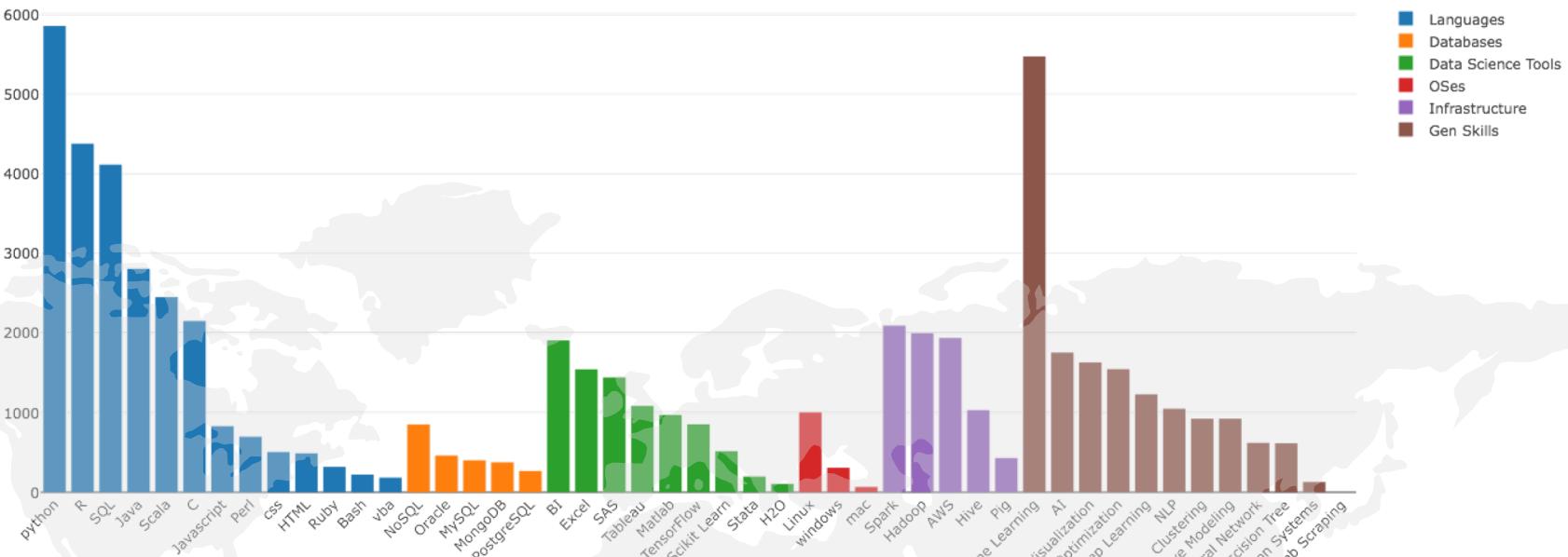


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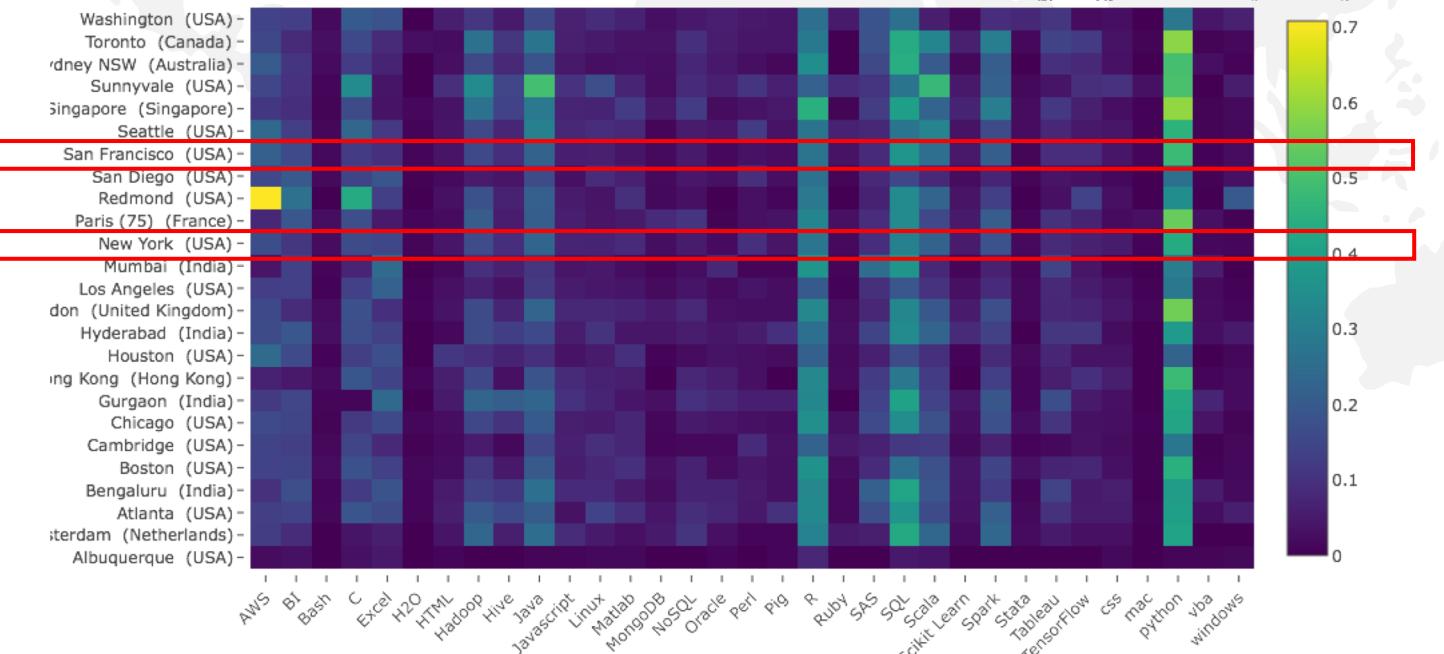


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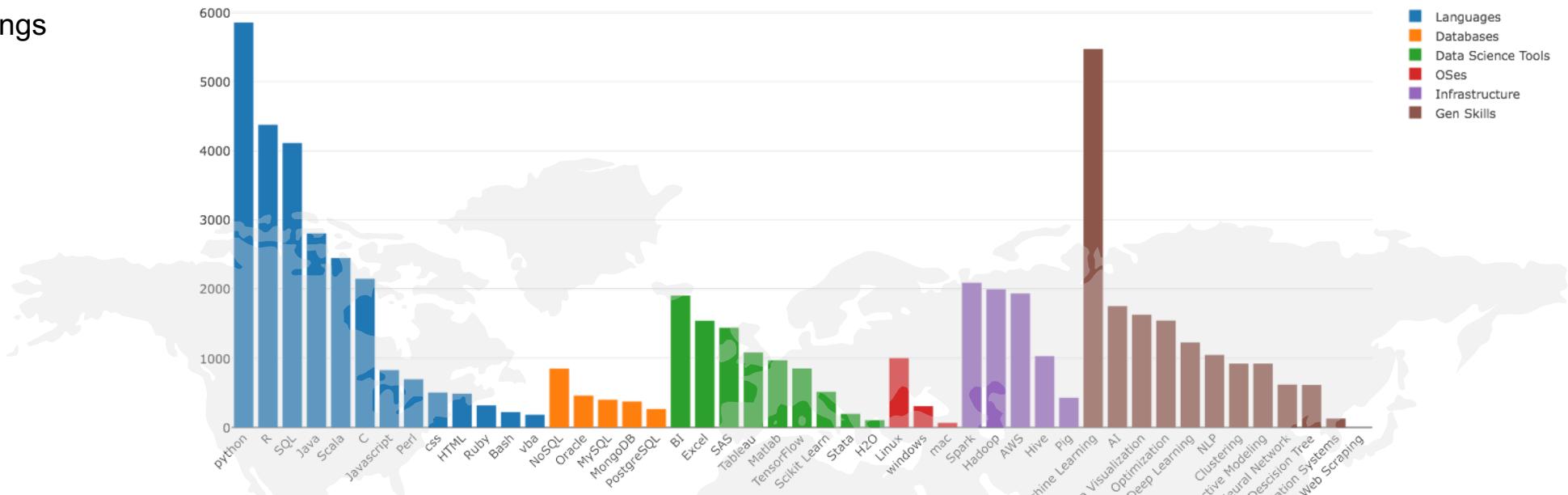


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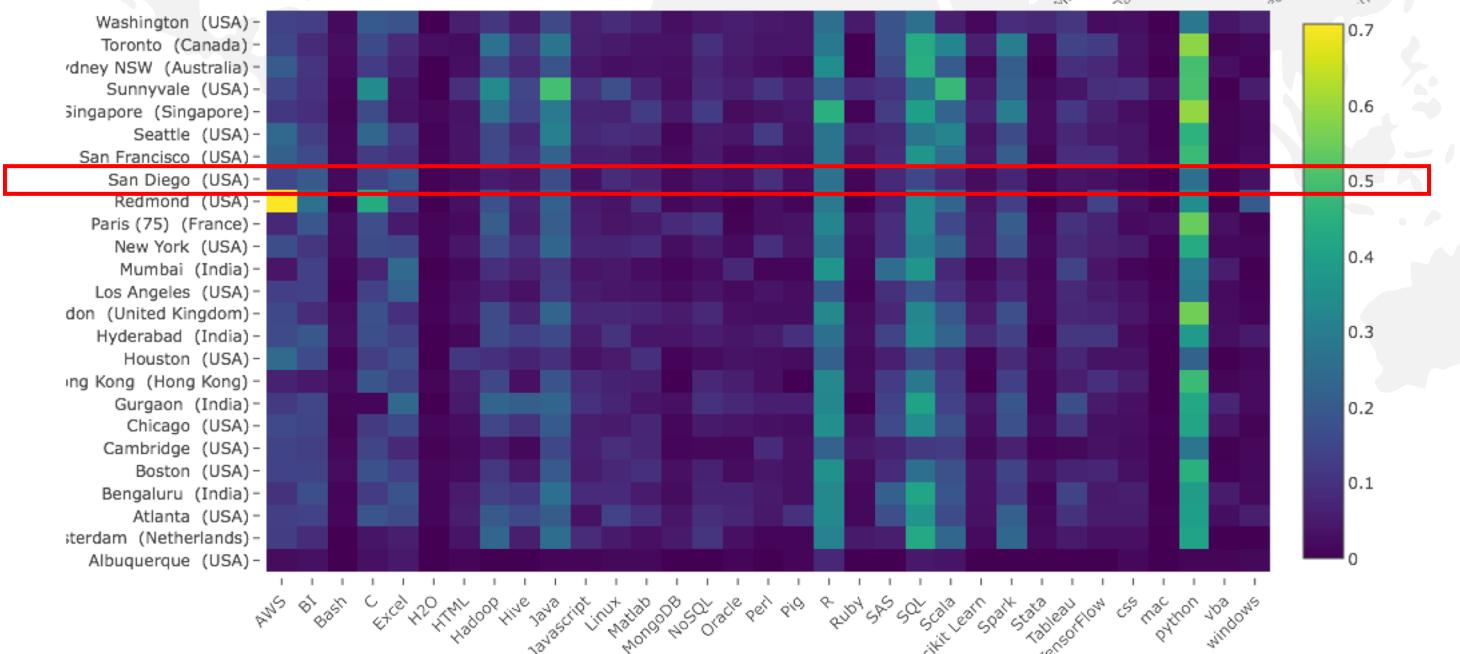


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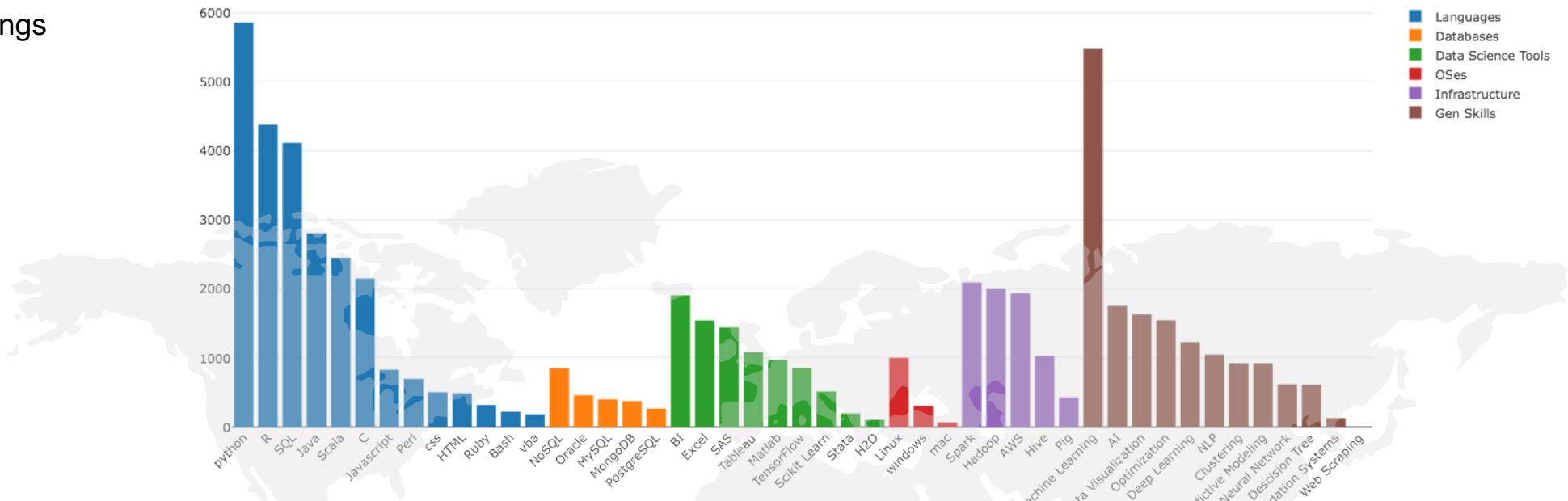


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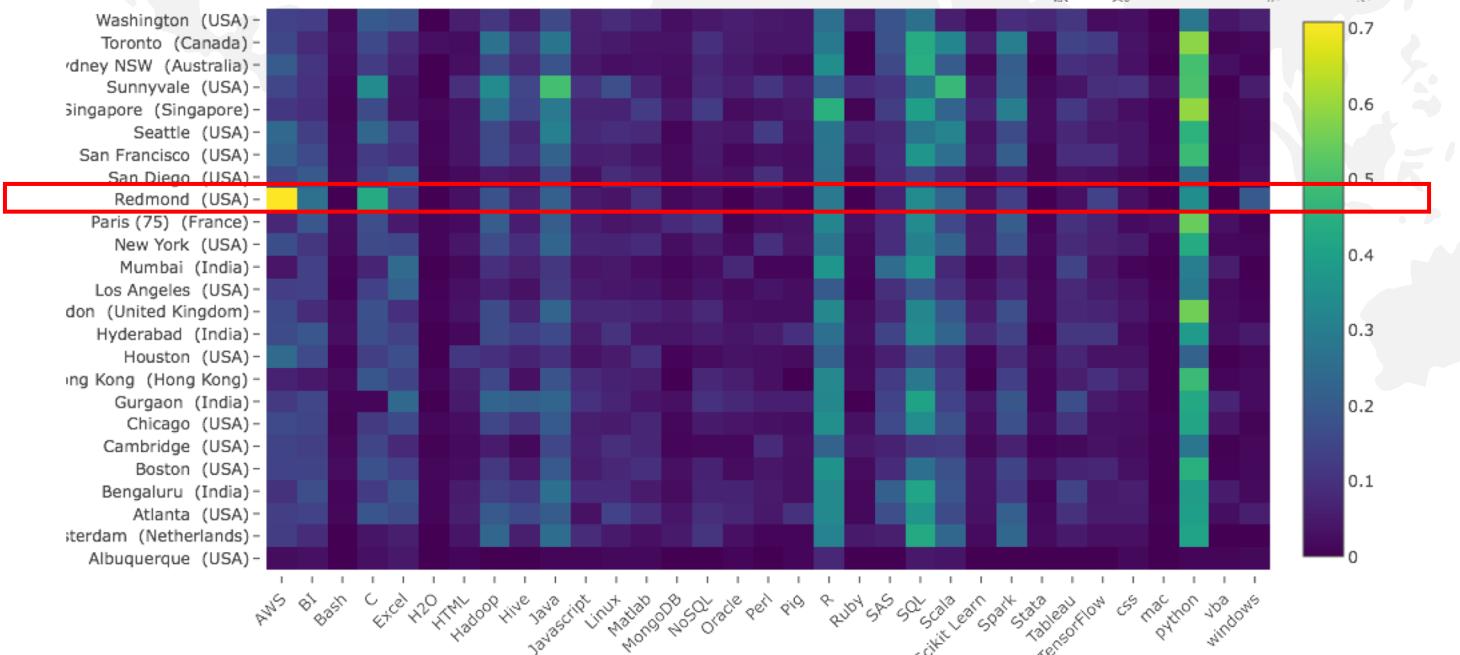


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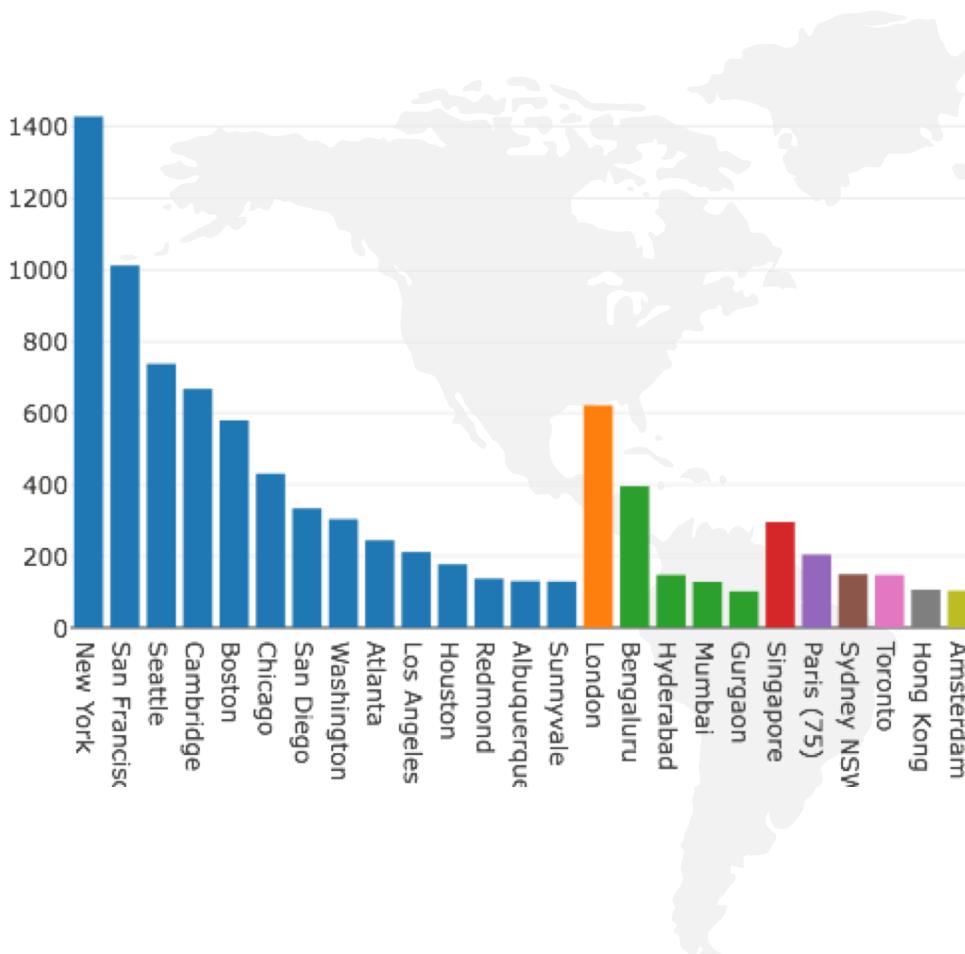
## Top 25 cities



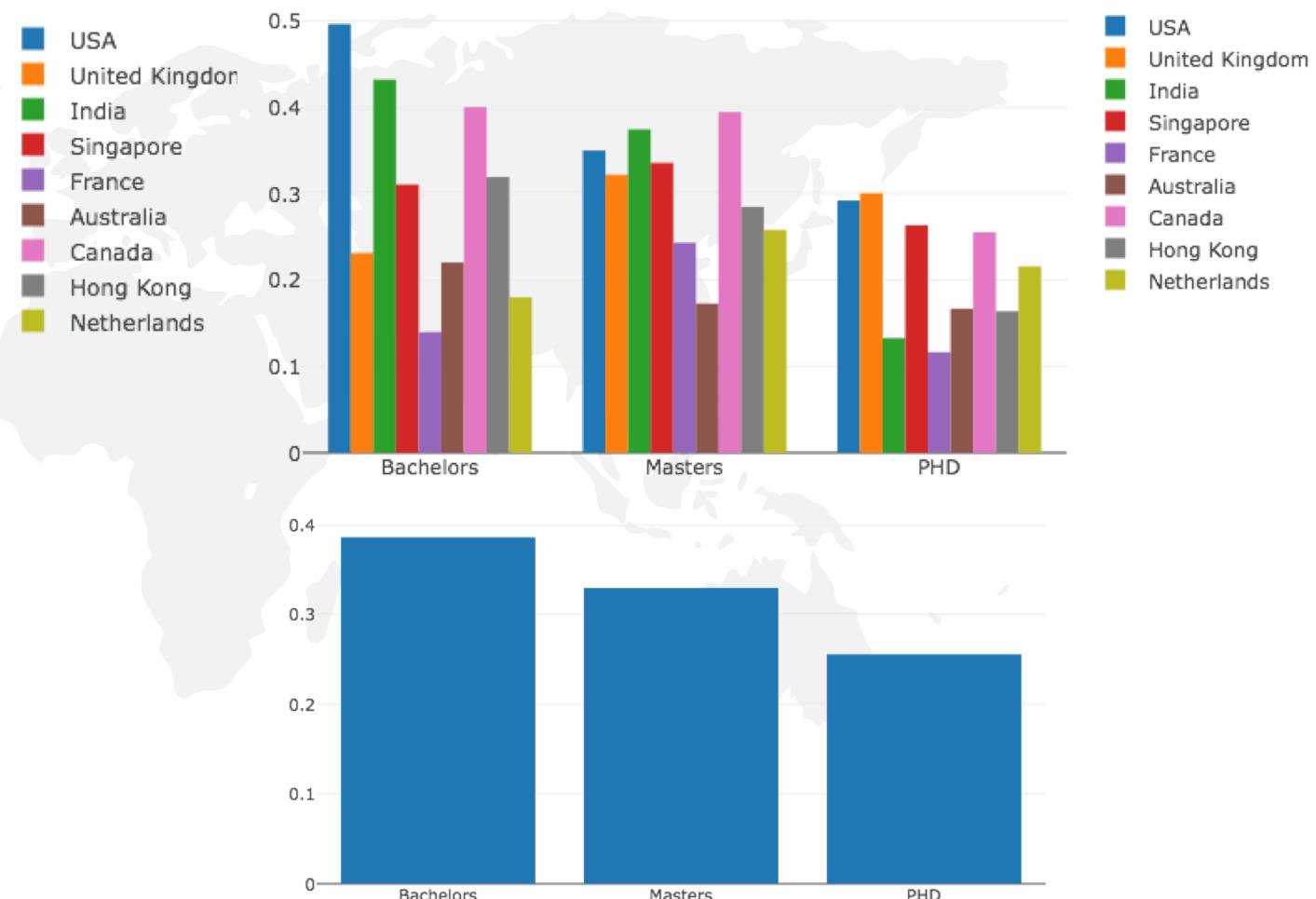
knowledge problem solving department group  
product data analytic data scientist  
data mining service study report activity market  
laboratory technology model performance software development  
process industry communication skill manage lead  
develop professional system expertise client delivery  
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

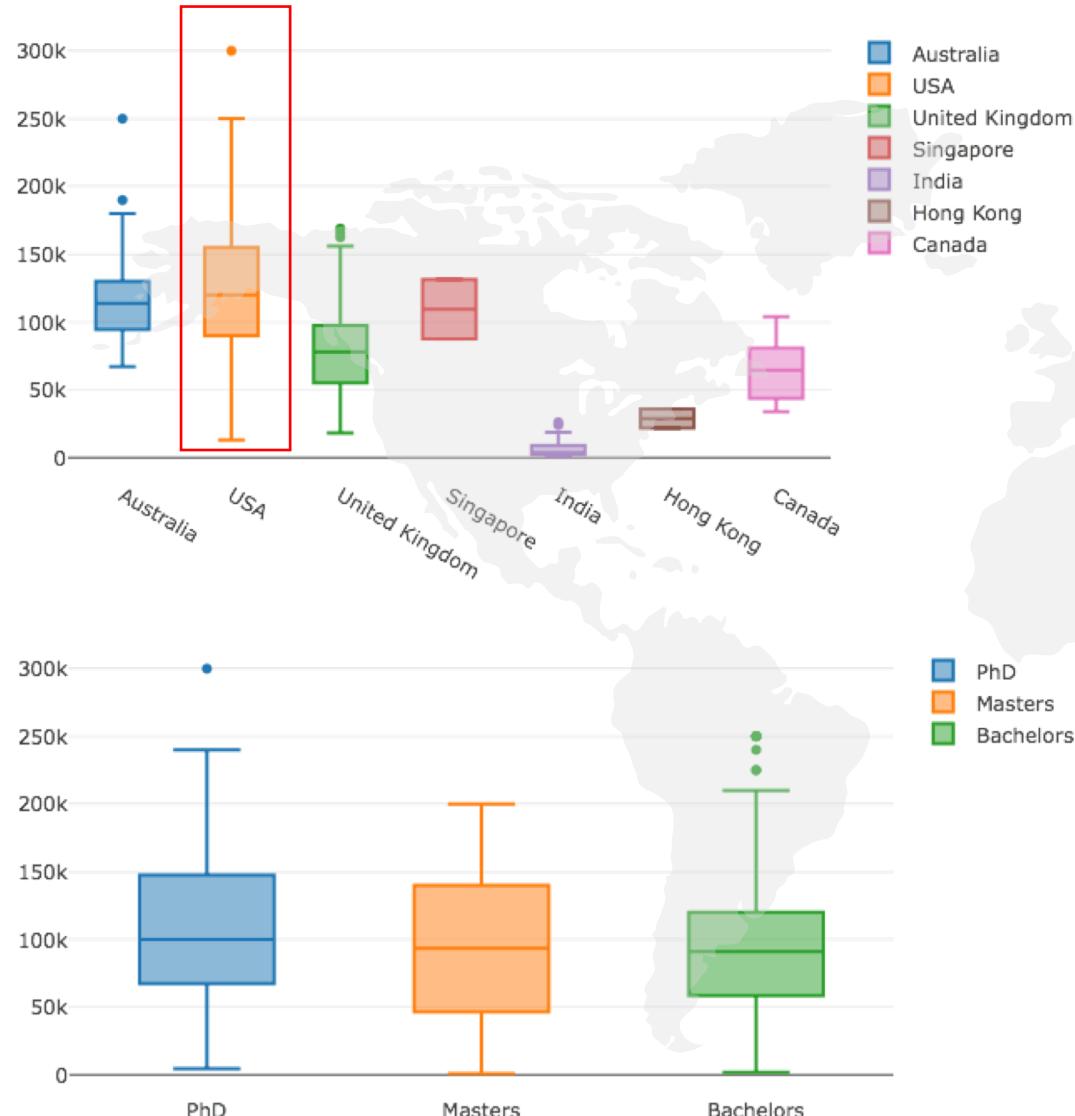


Top 9 countries represented by the top 25 cities

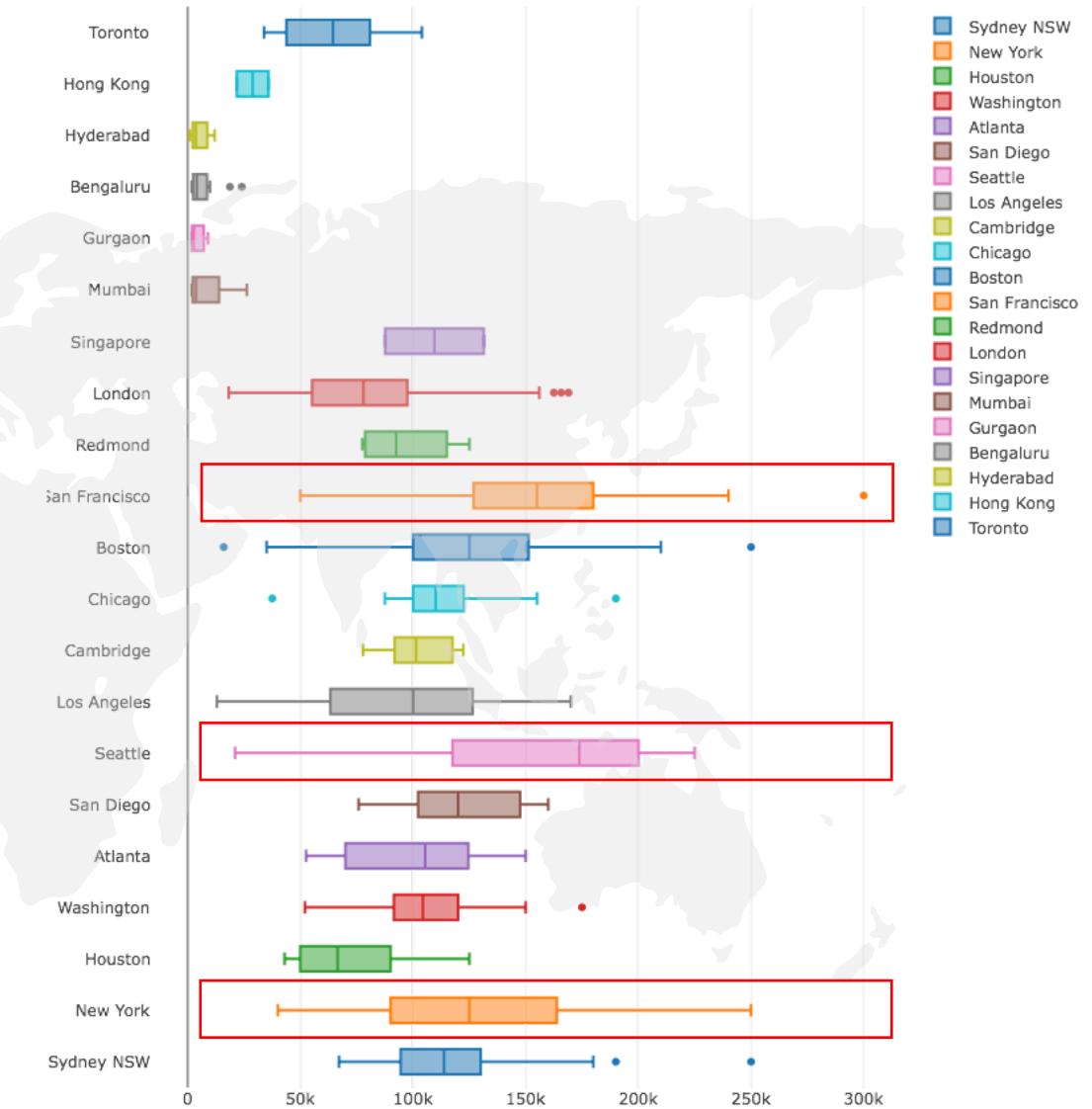


# Highest paying jobs by location and degree

Top 7 countries represented by the top 25 cities

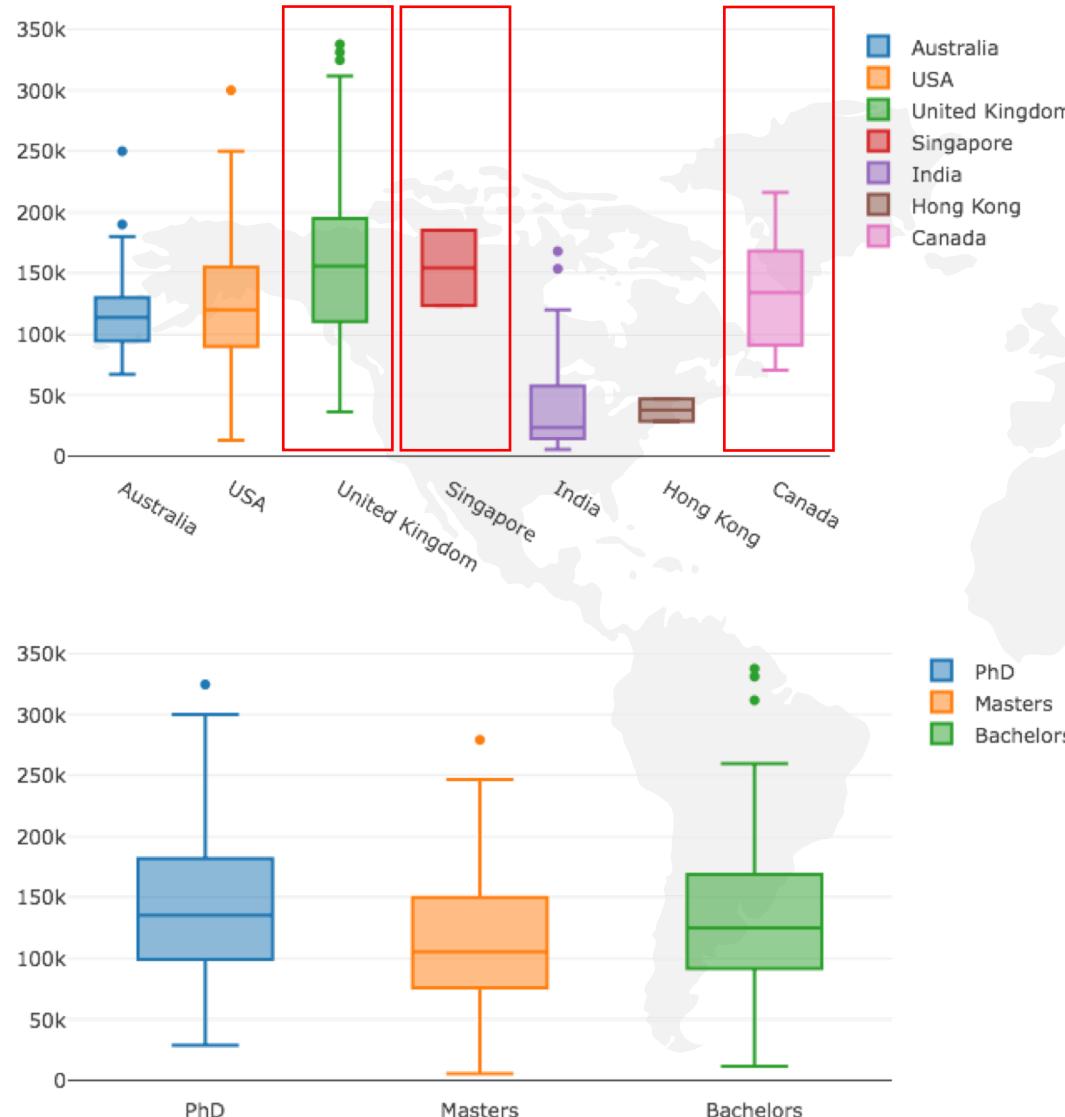


~ 10% jobs postings

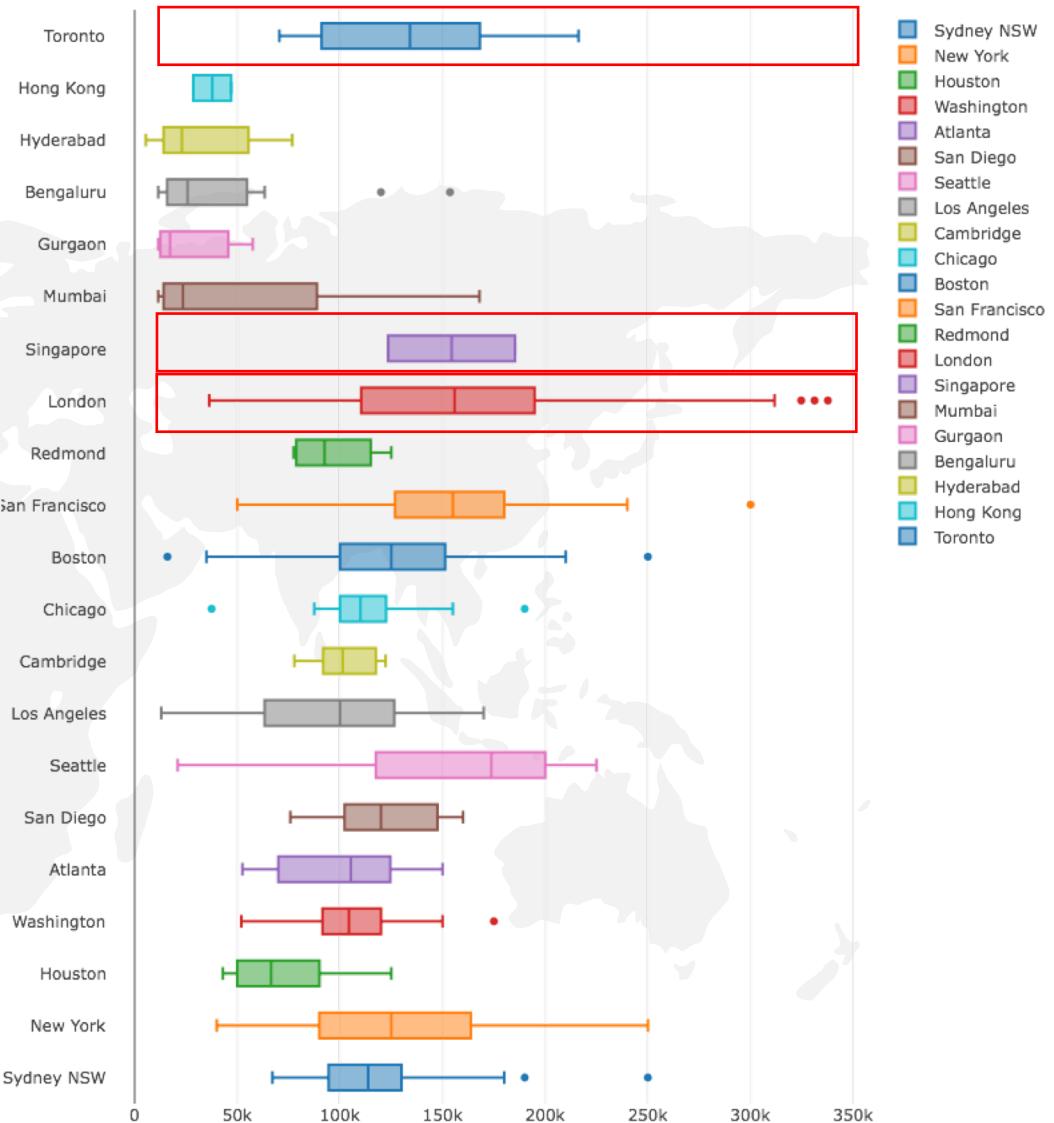


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Top 7 countries represented by the top 25 cities

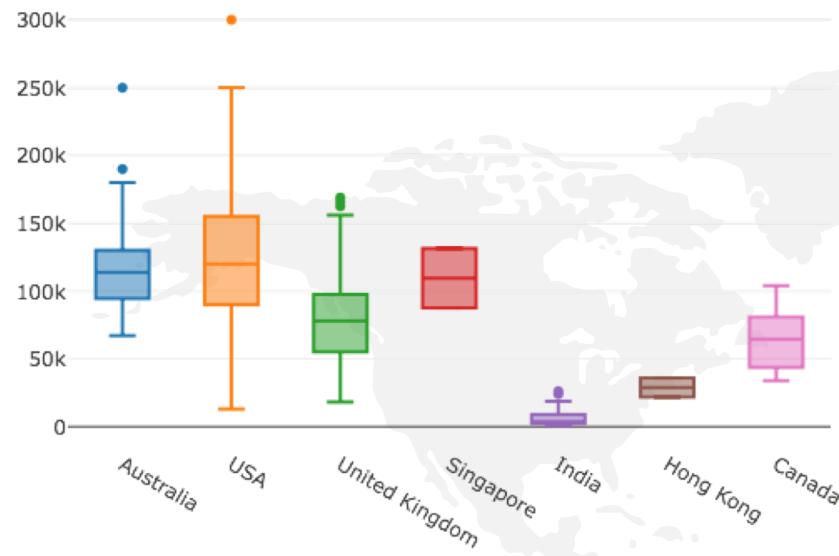


Normalized per cost of living and rent

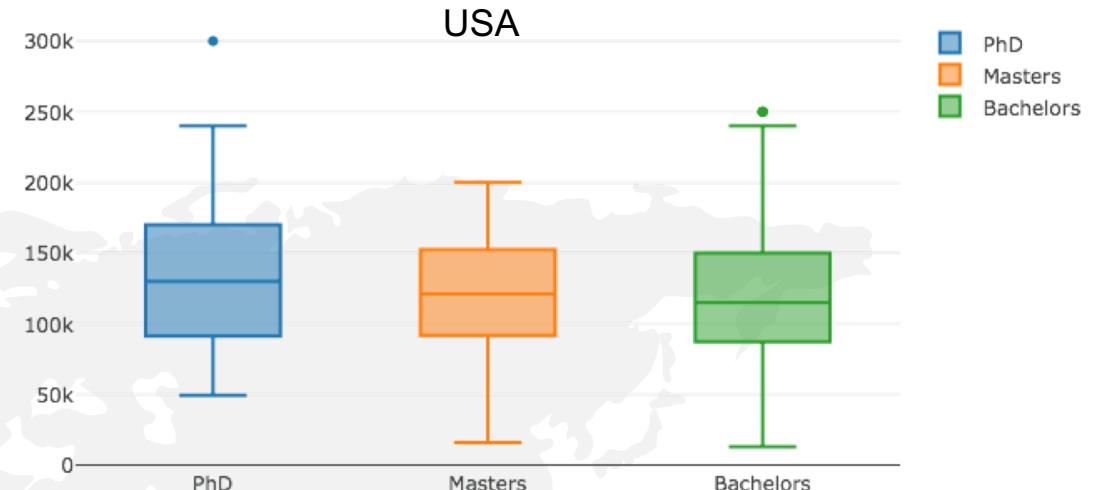


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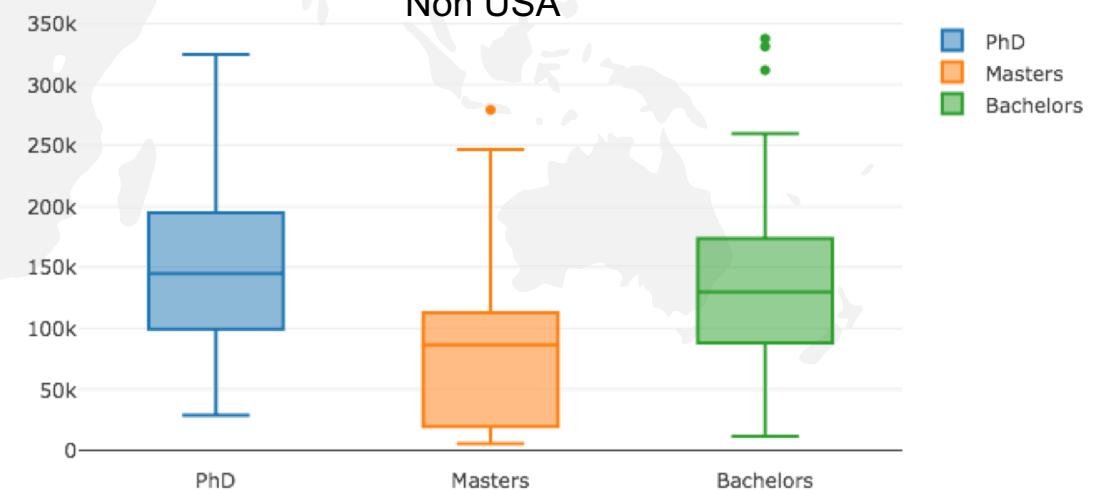
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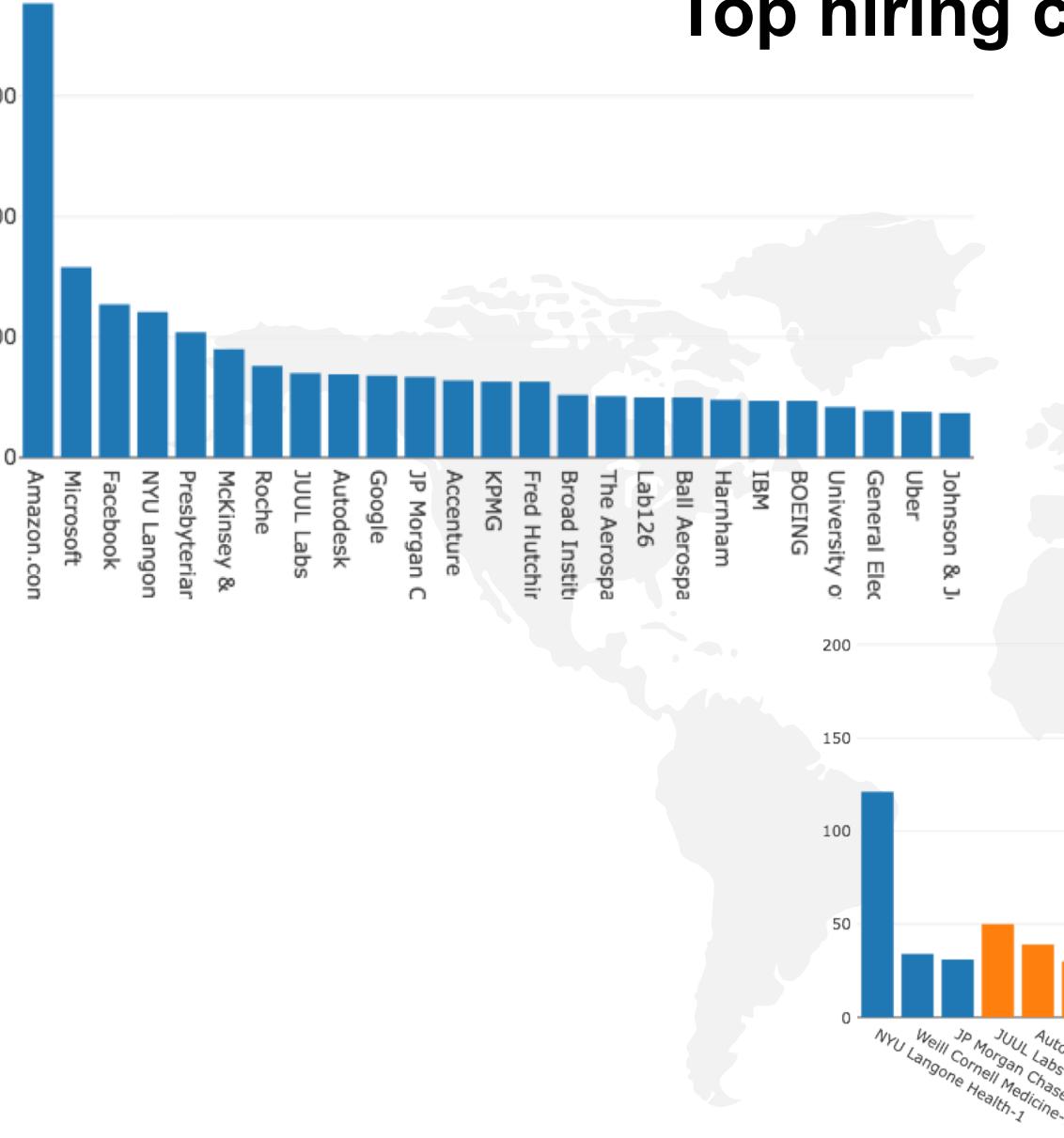


Non USA

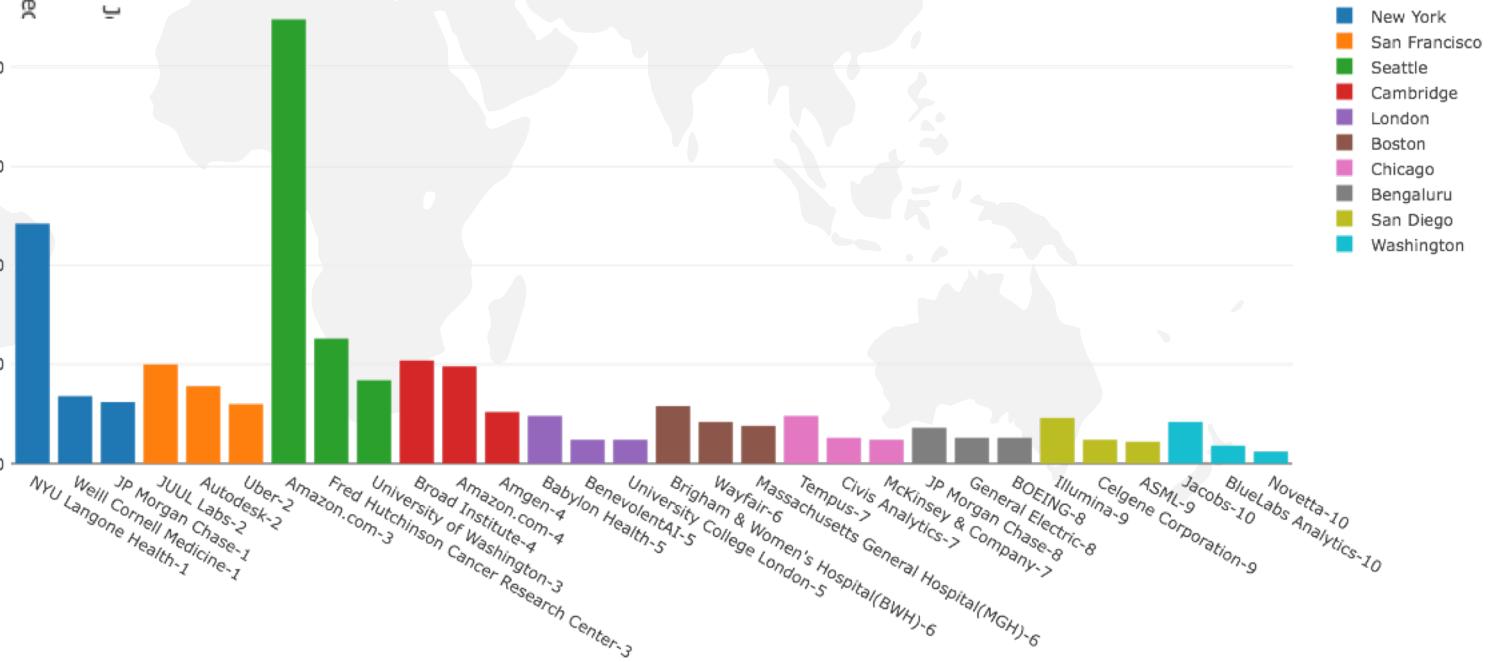


All job postings

# Top hiring companies



Top 3 companies for the top 10 cities



# Conclusions

- ✓ Skills: Python, R, SQL, ML



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- ✓ 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

