

# THINK AND GET JOBS

Helping the **international** data science students  
strategize job search,  
through an analysis of **H1B visa data** of  
**3 million** observations from 2014 to 2018.



**Ali & His GG Queens**

**Ali Yaqoob**  
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## STEP 7

### Work Eligibility (Required)

Please answer the questions below.

**Are you legally authorized to work in the United States?**

Yes       No

**Will you now or in the future require sponsorship for employment visa status (e.g. H-1B visa status)?**

Yes       No

**Please indicate whether you are either a citizen or lawful permanent resident of any of the following countries: Cuba, Iran, North Korea, Syria or Sudan.**

Yes       No

**NOTE:** Facebook is asking this question, and will use your response, for the exclusive and limited purpose of compliance with federal export control laws and regulations.

# 01 BACKGROUND

An overview of H1B visas

# 02 WHY STEM

Reasons why STEM is relevant to look at

# 03 WHICH JOBS

Different types of data related jobs and their trends

# 04 WHERE

Where you should be applying for and what to look at

# 05 CONCLUSIONS

Big takeaways

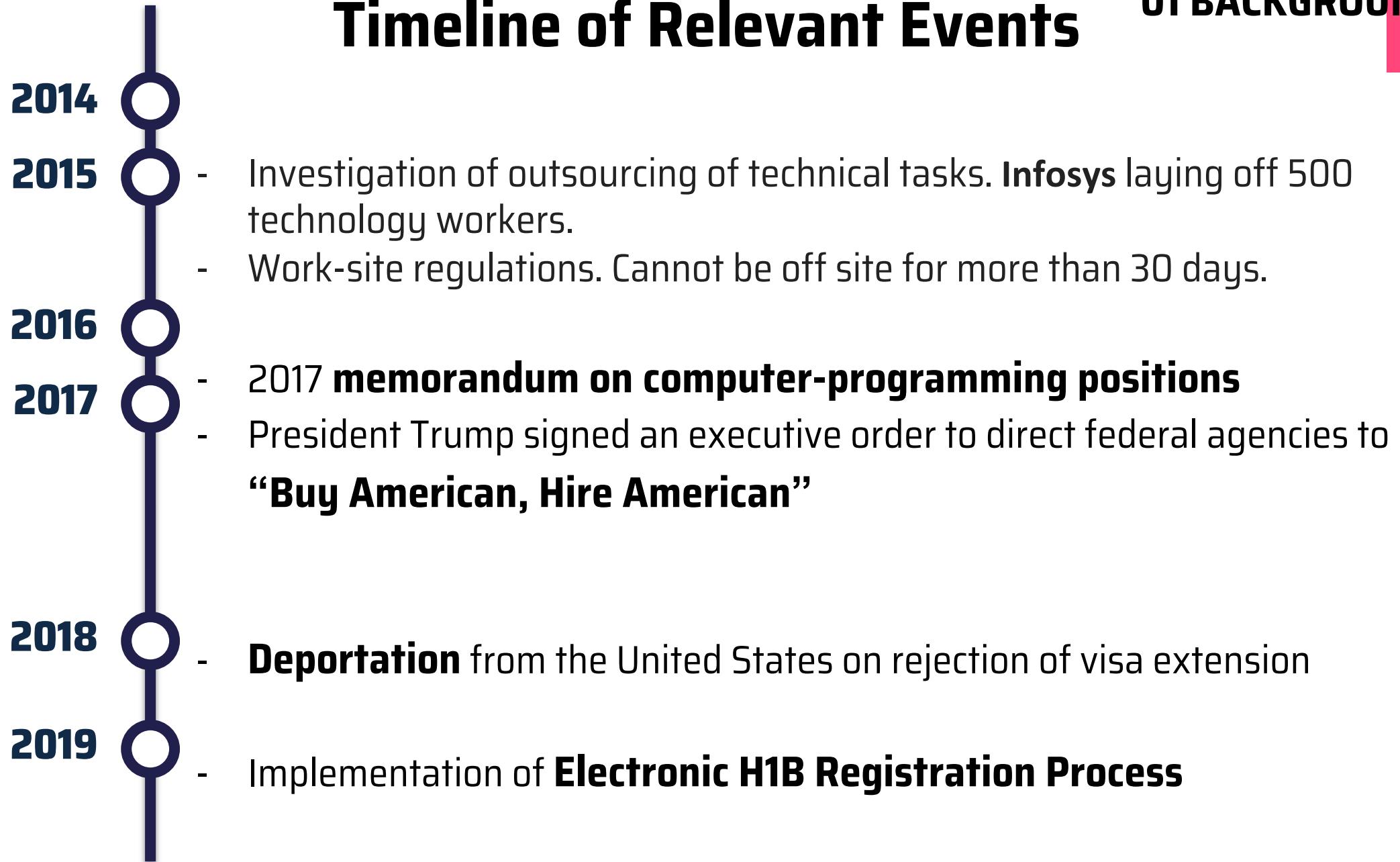
# 01 BACKGROUND

An overview of H1B visas

# The H1B Visa

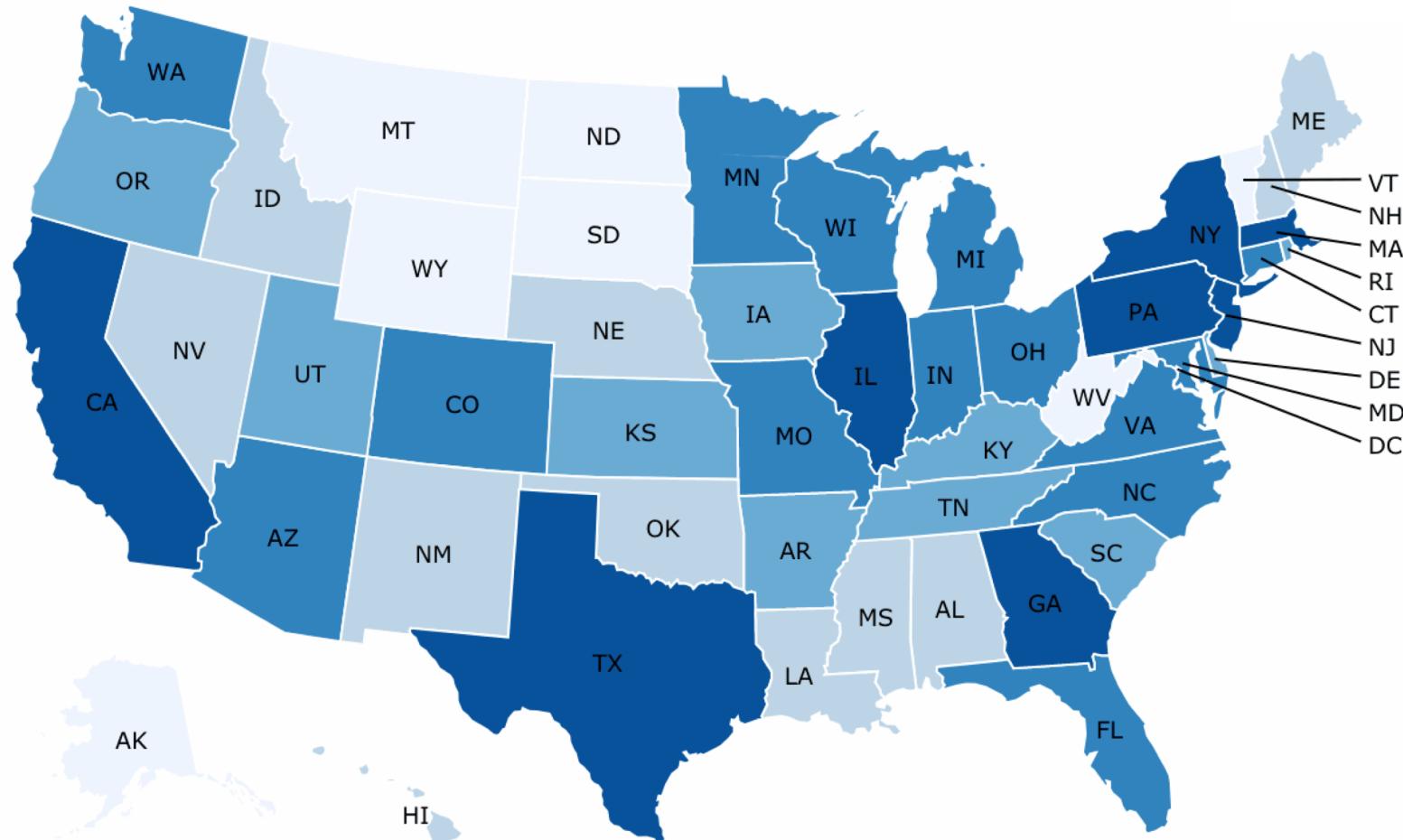
- Non-immigrant visa that allows companies in the US to hire international students for **speciality occupations** that require **theoretical or technical expertise**.
- **Minimum requirements**
  - Bachelors
  - Job offer related to field of study within the US
- **Why is H1B popular**
  - Dual-intent visa
  - Flexible
  - Accessibility
  - Term of stay = 6 years
  - Quicker than applying for permanent residency

# Timeline of Relevant Events



# Number of Applications Per State

2014

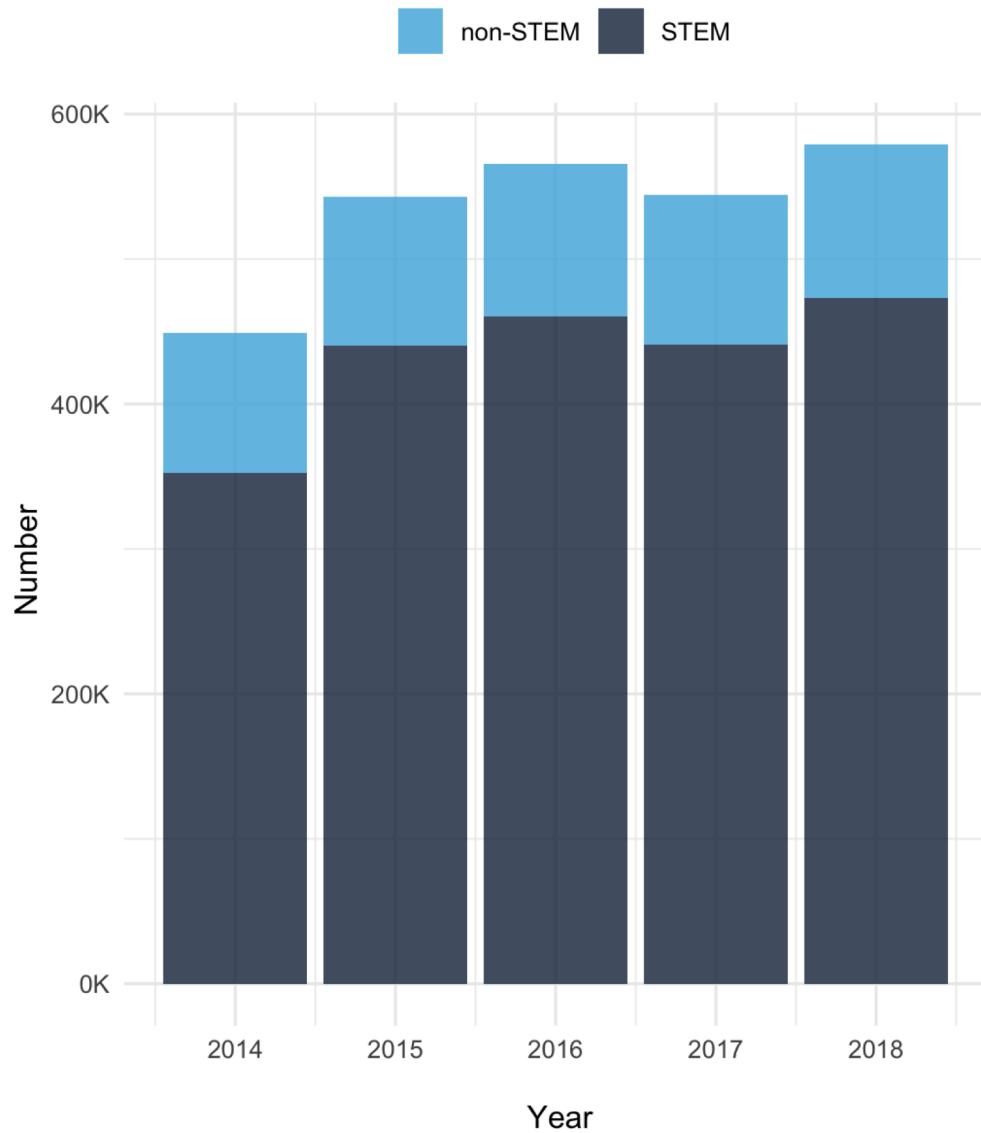


# 01 BACKGROUND

## 02 STEM

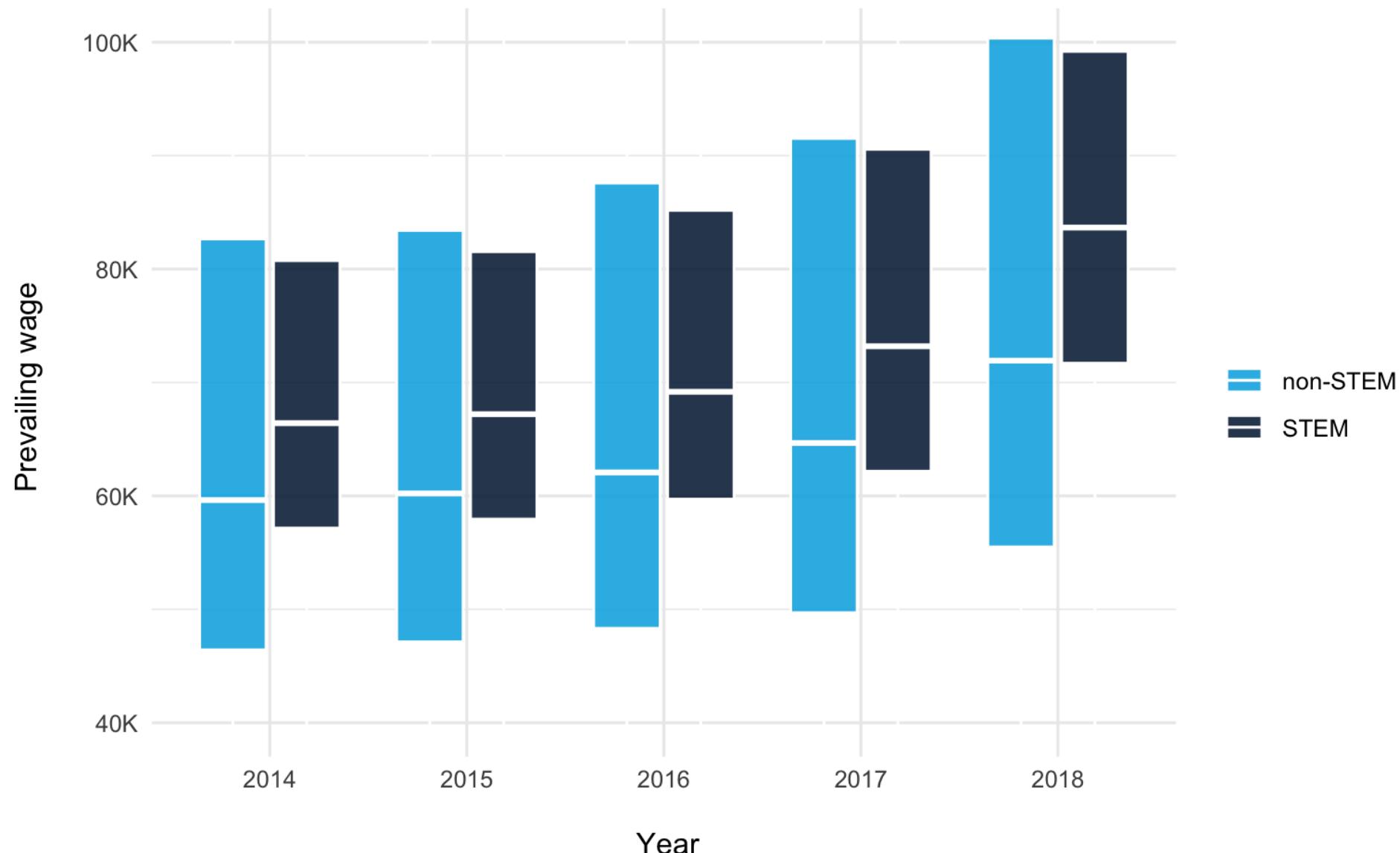
Reasons why STEM is relevant  
to look at

# Portion of STEM Applications Per Year

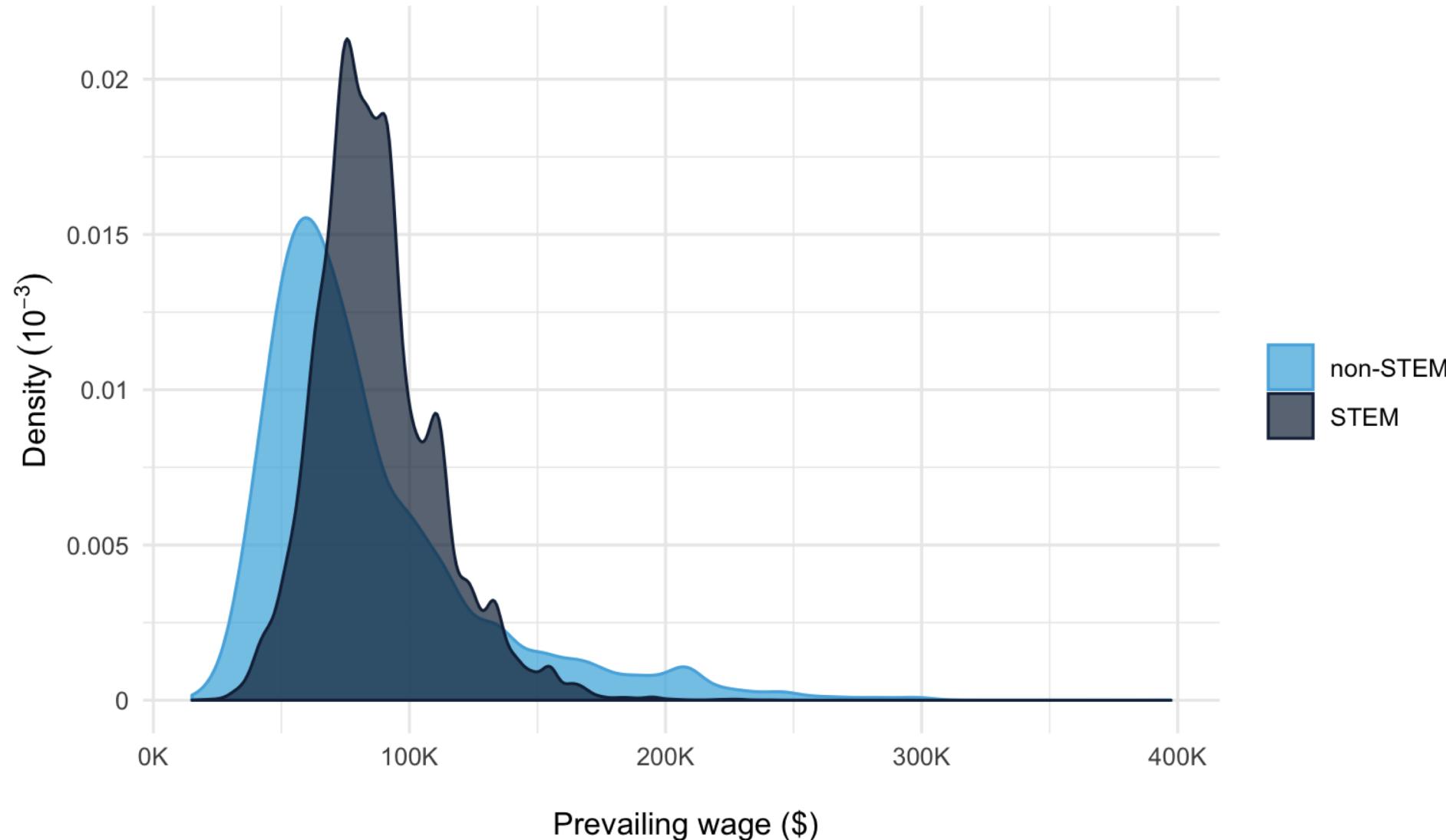


- More than 80% of all applications in each year are STEM related jobs
- **Three main reasons for this**
  1. 3 chances for STEM international students
  2. Higher number of jobs
  3. More competitive salaries

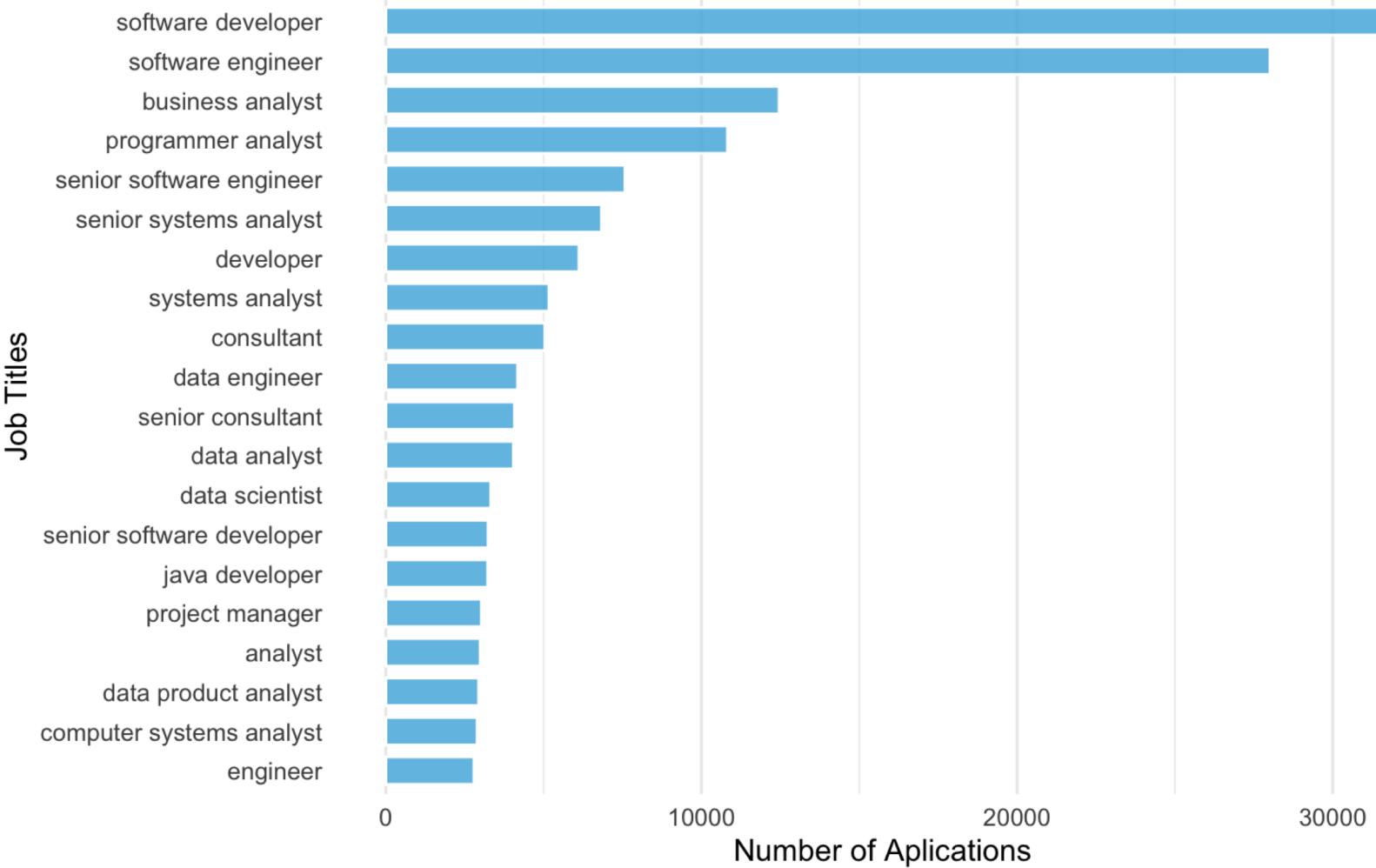
# Prevailing Wage Distribution Per Year



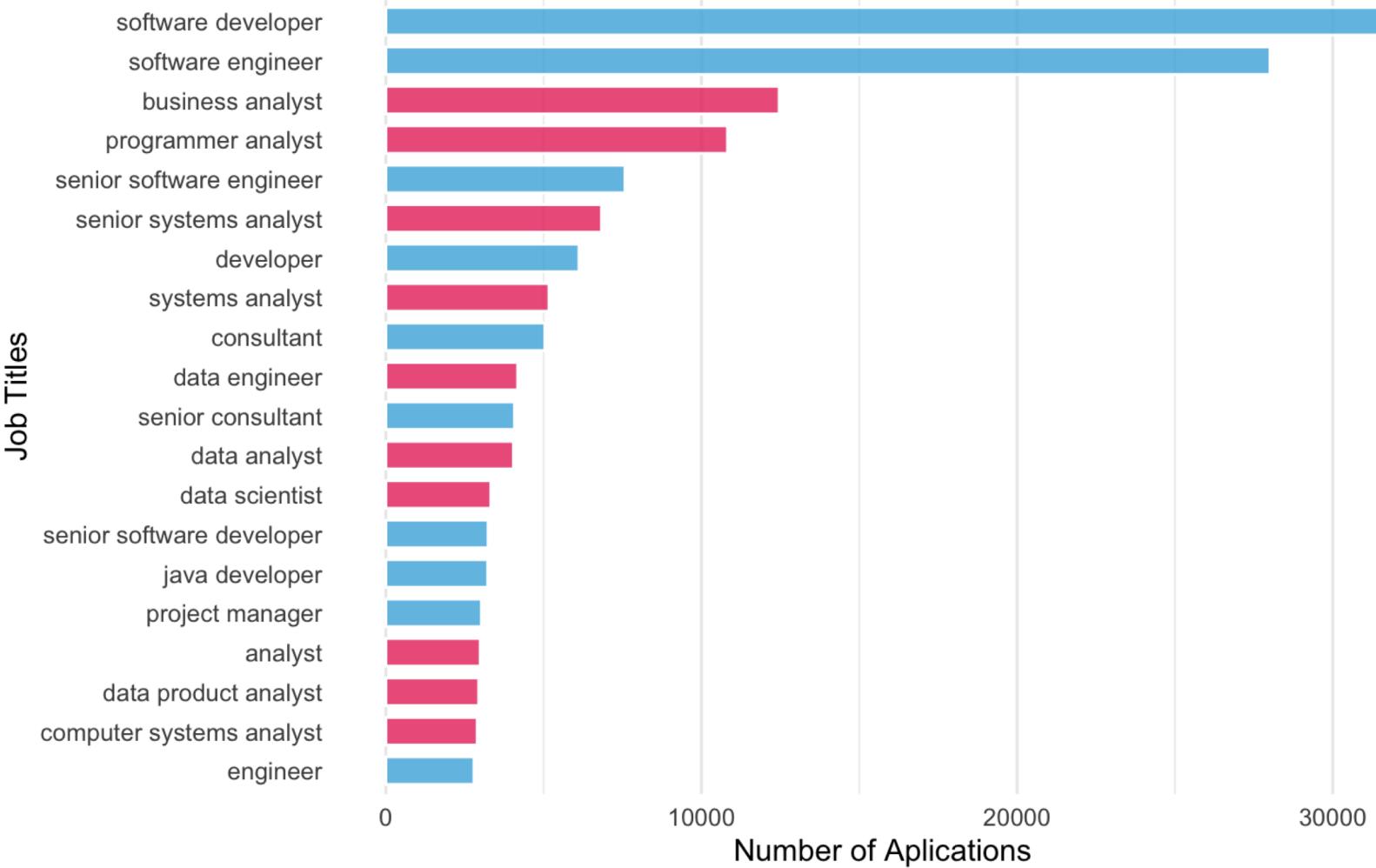
# Prevailing Wage Distribution - 2018



# Top Jobs Within STEM In 2018



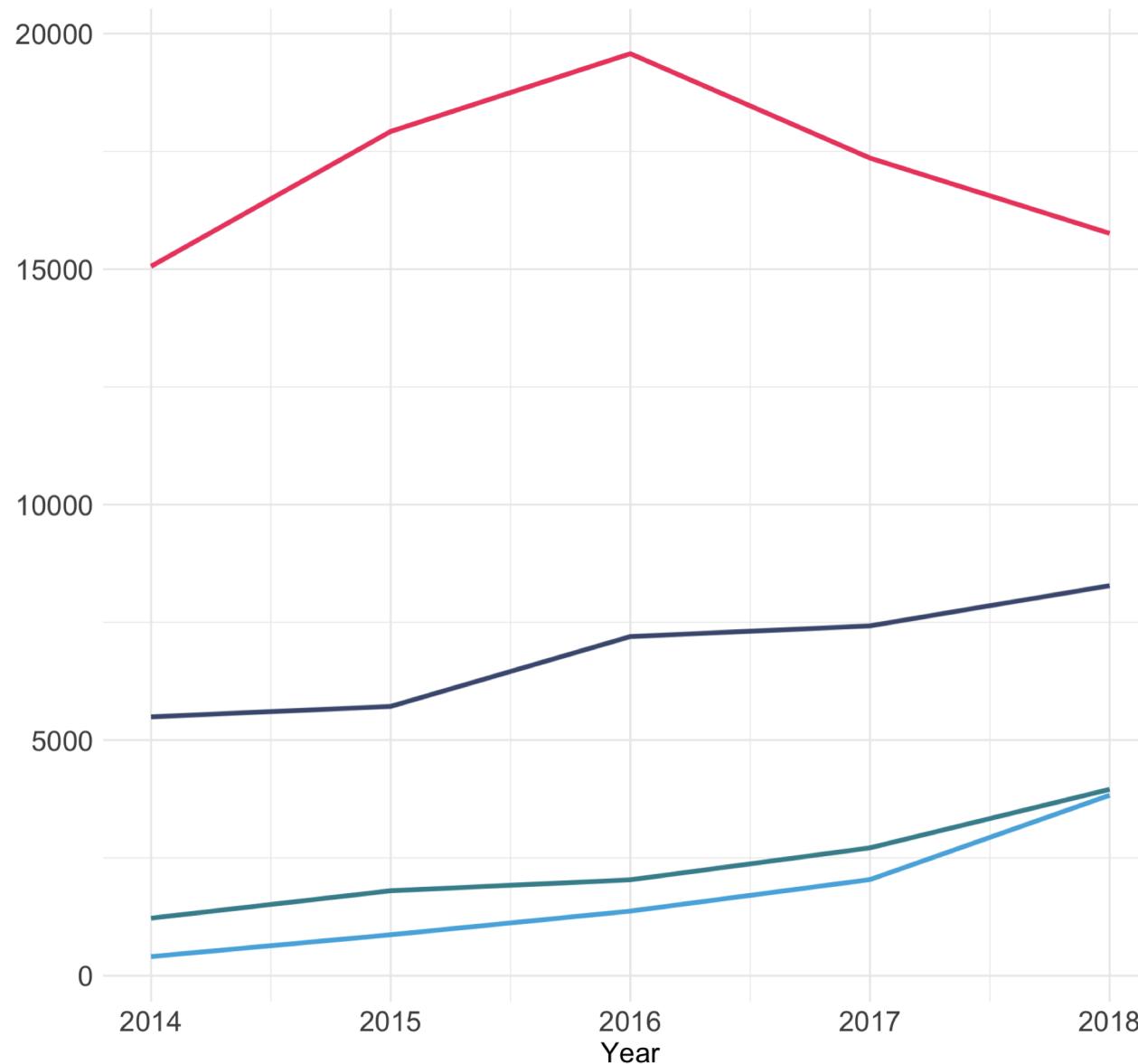
# Top Jobs Within STEM In 2018



# 03 WHICH JOBS

Different types of data related jobs and  
their trends

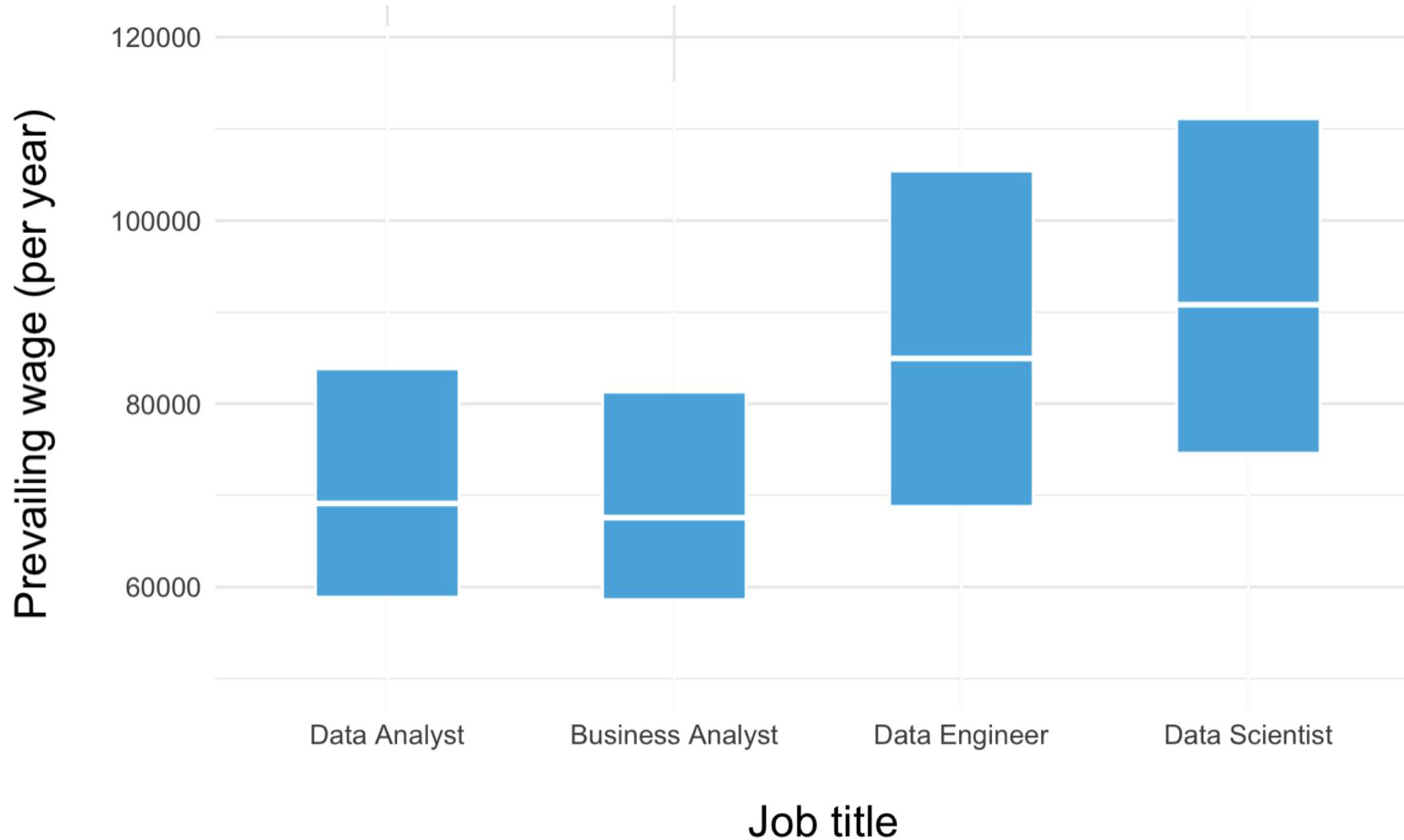
# Data Related Jobs And Their Trends



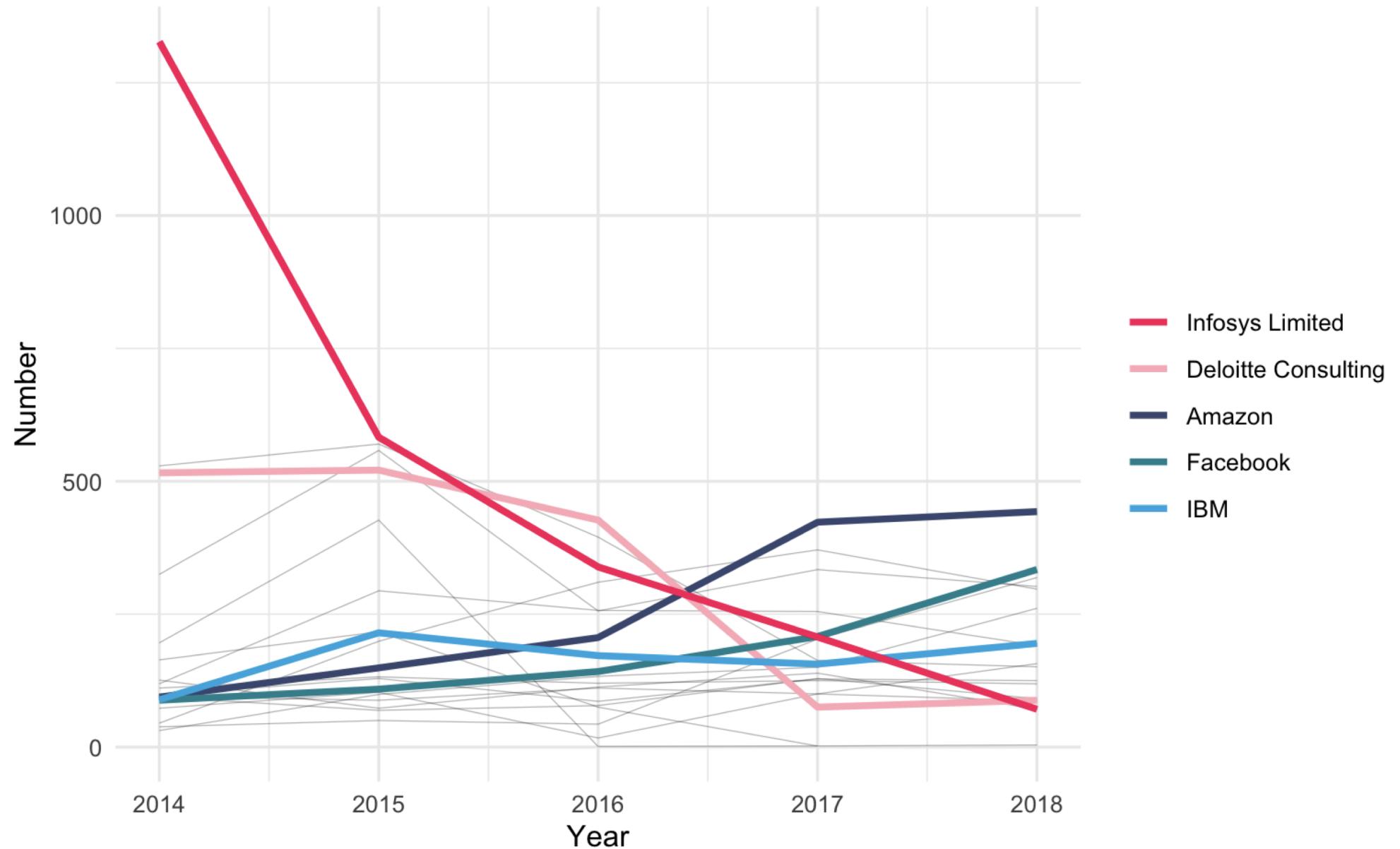
- **Business Analyst** jobs the highest for all years but currently on the decline.
- **Data Scientist** and **Data Engineer** jobs on the rise.
- **Data Analyst** jobs leveling out over the years.

— Business Analyst    — Data Analyst  
— Data Engineer      — Data Scientist

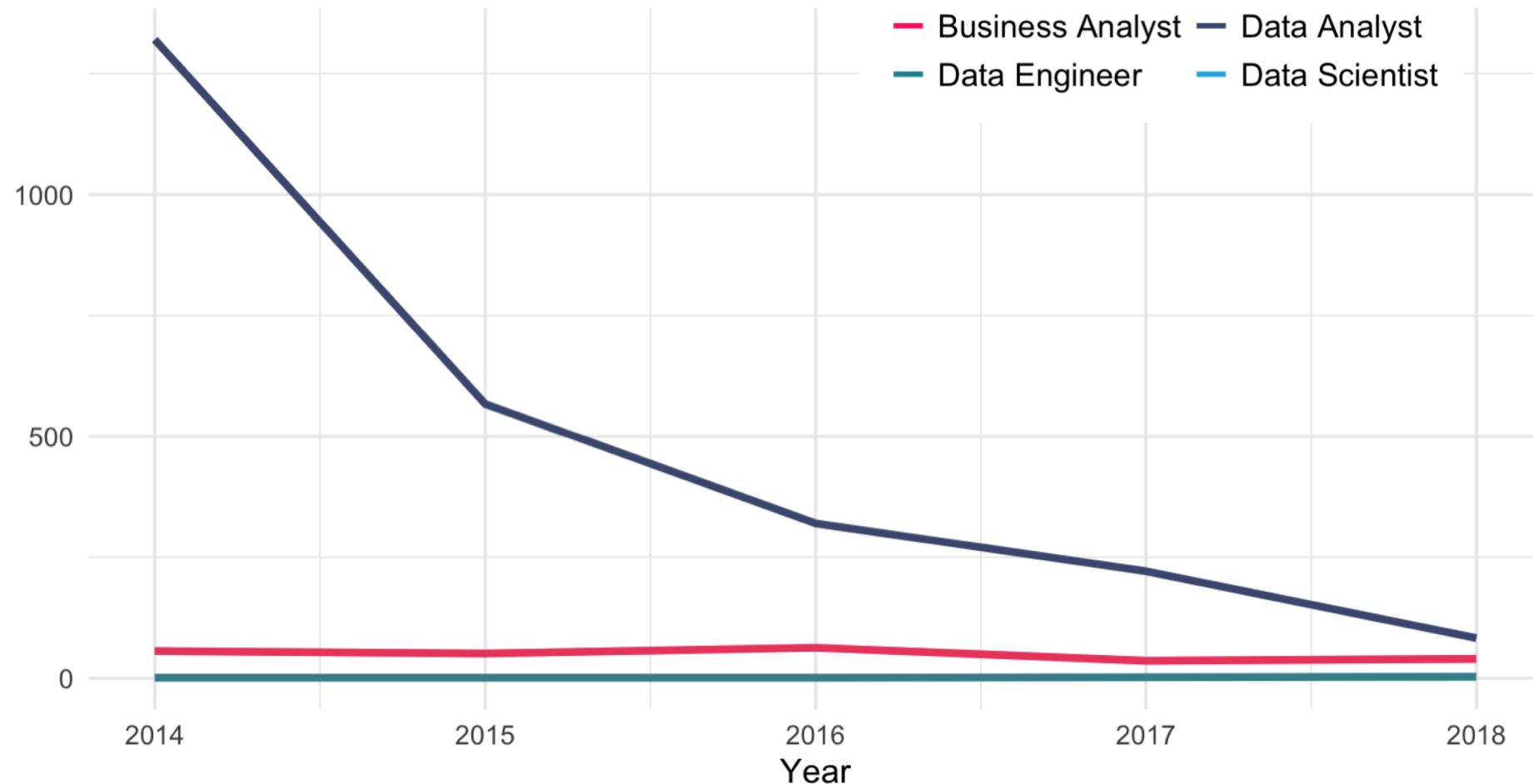
# Prevailing Wage of Data Related Jobs in 2018



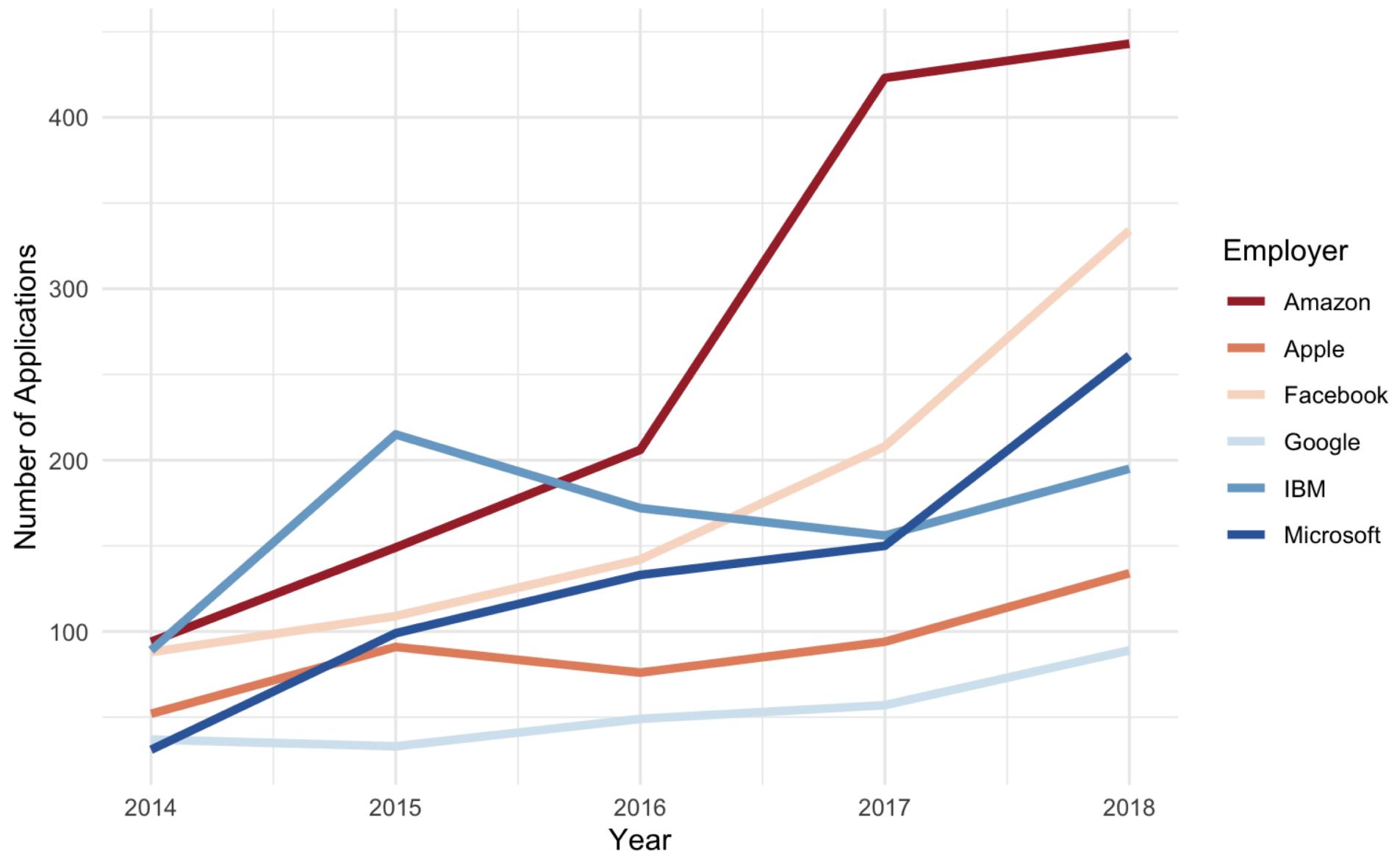
# Data Related Jobs And Their Trends



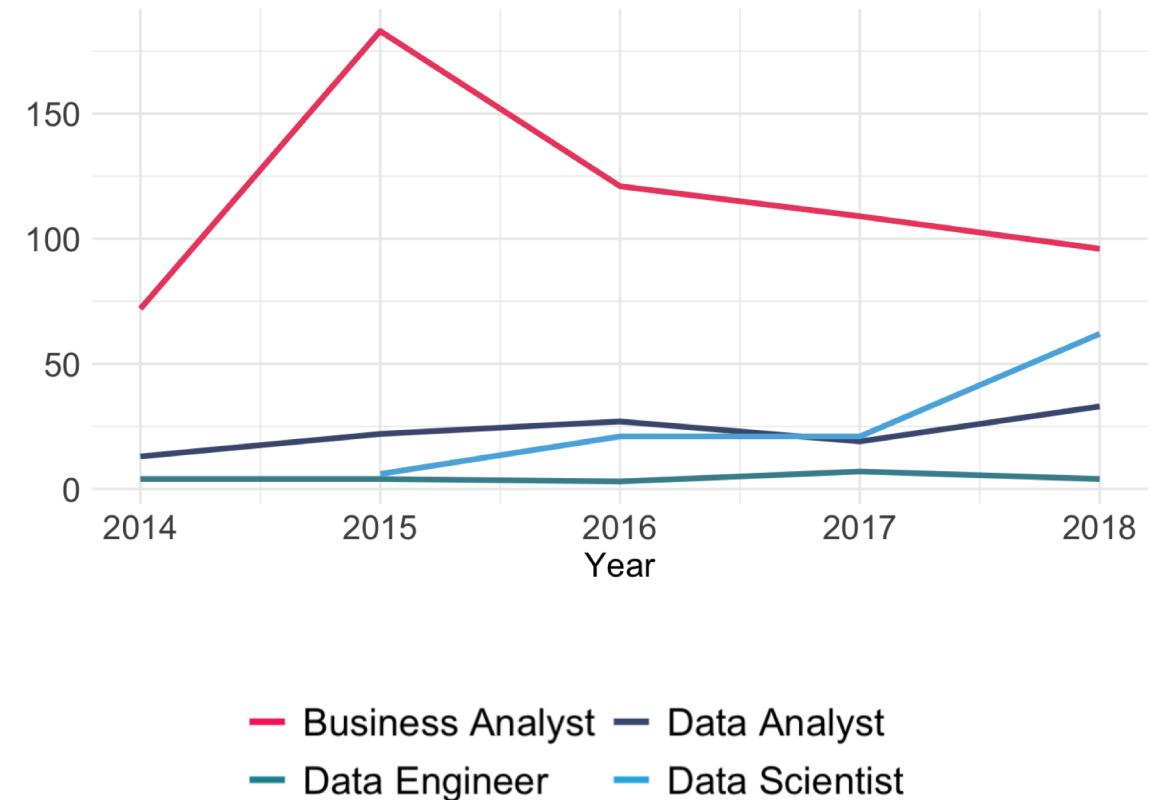
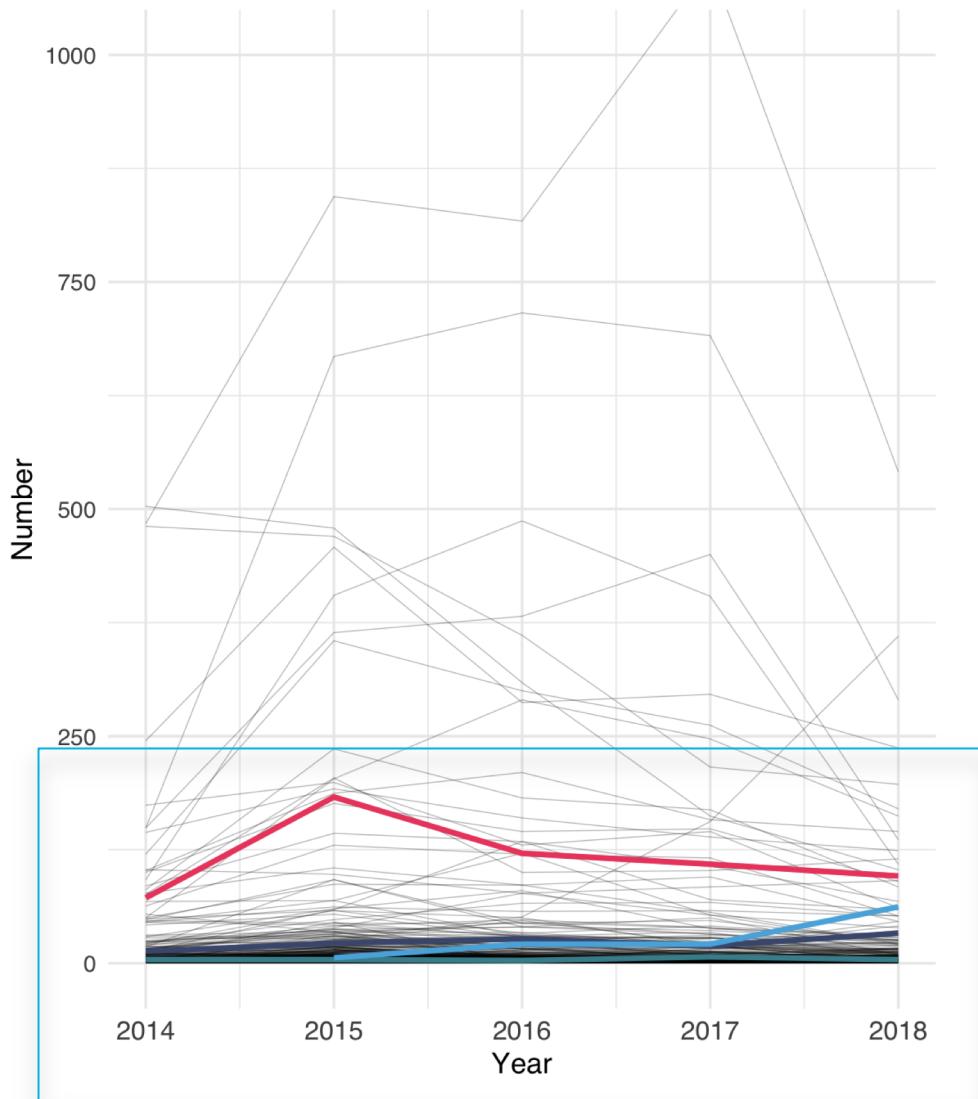
# Story Behind Infosys

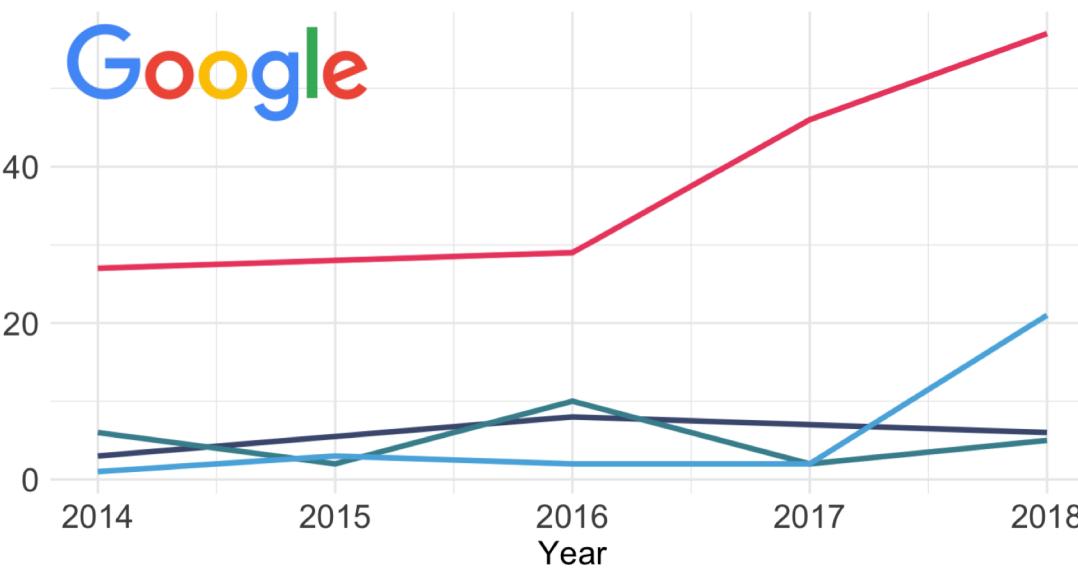
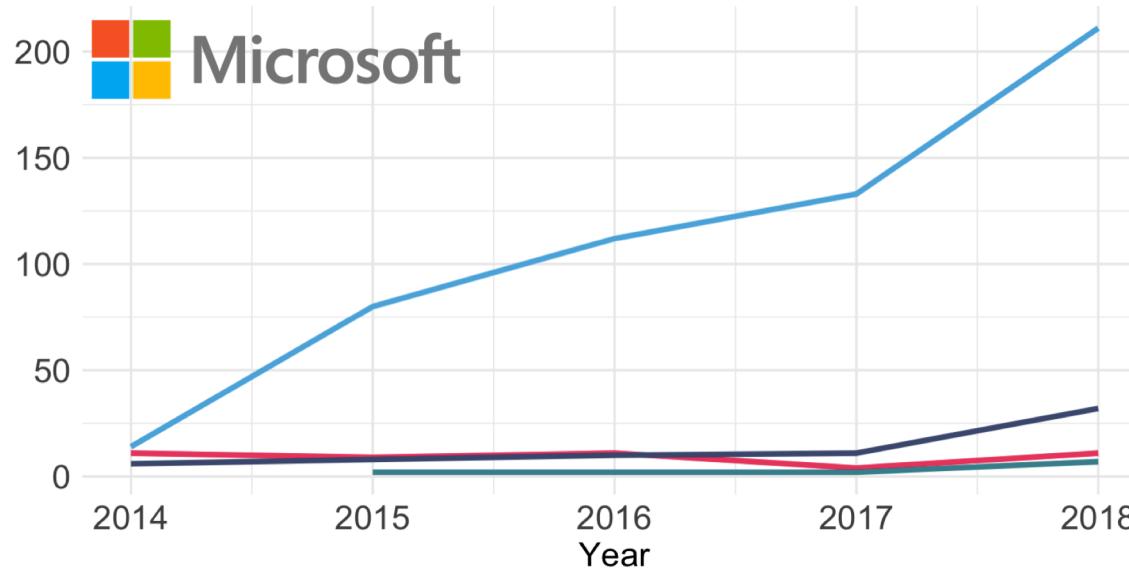


# Data Related Jobs In Tech Companies



# Story Behind IBM



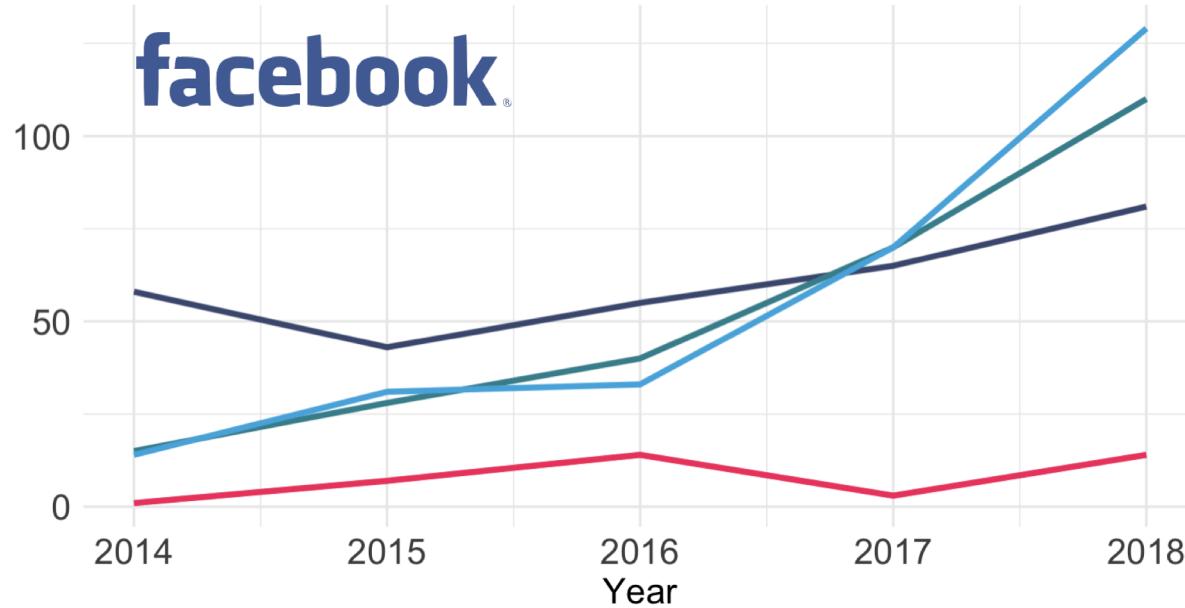


## Microsoft and Google

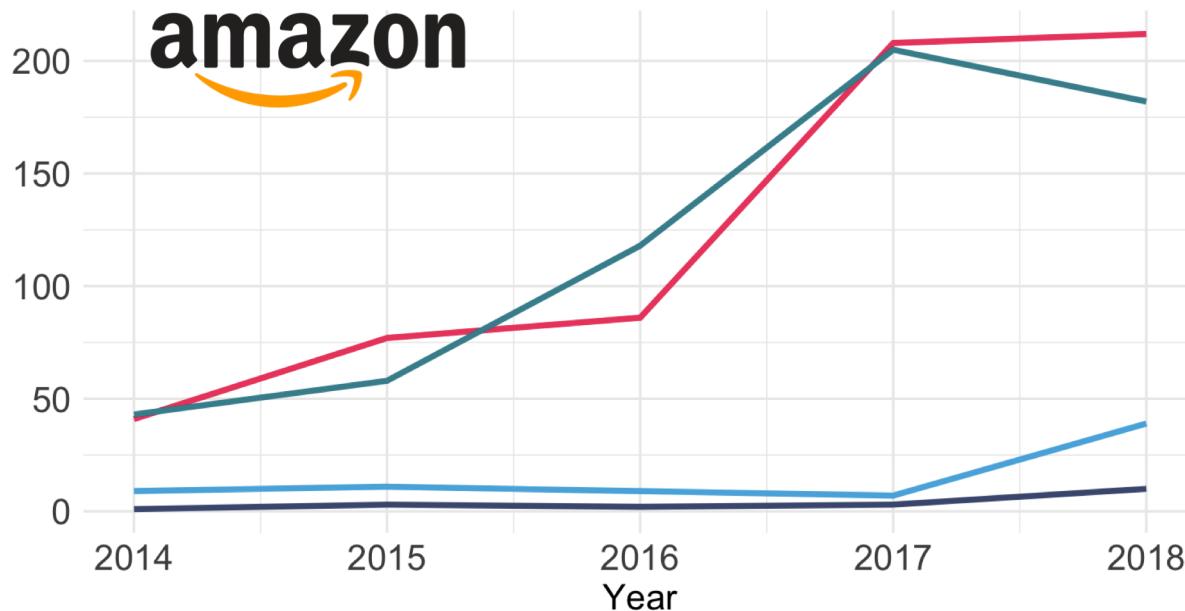
- Comparatively, other tech giants, such as **Microsoft** and **Google** show a general increase in data related roles.
- Interestingly, **Google** actually has very few directly data related roles.
- Possibly because of data being used for all jobs in **Google**

— Business Analyst    — Data Analyst  
— Data Engineer    — Data Scientist

**facebook**



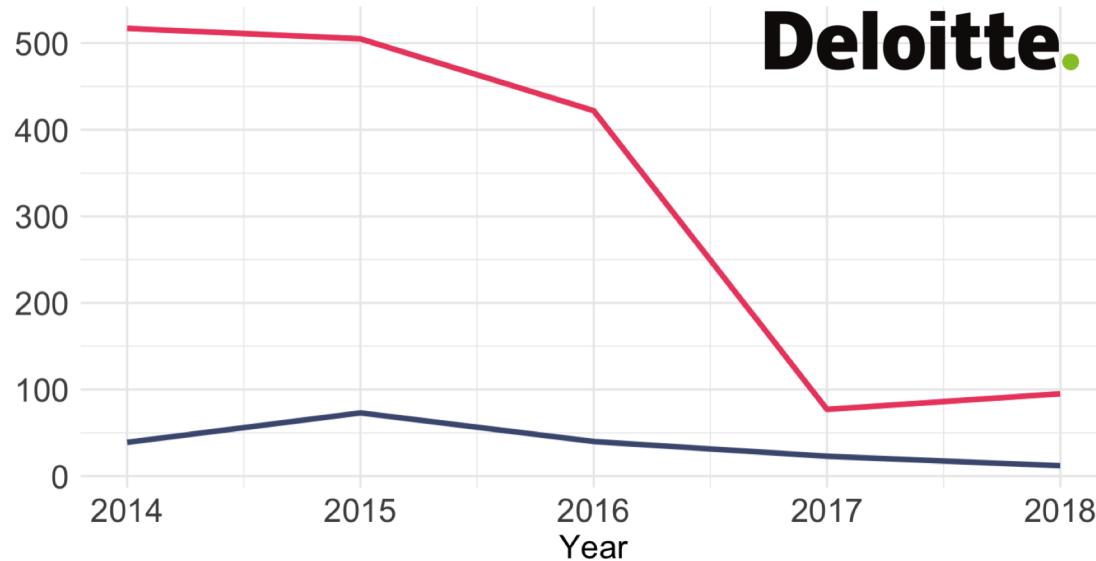
**amazon**



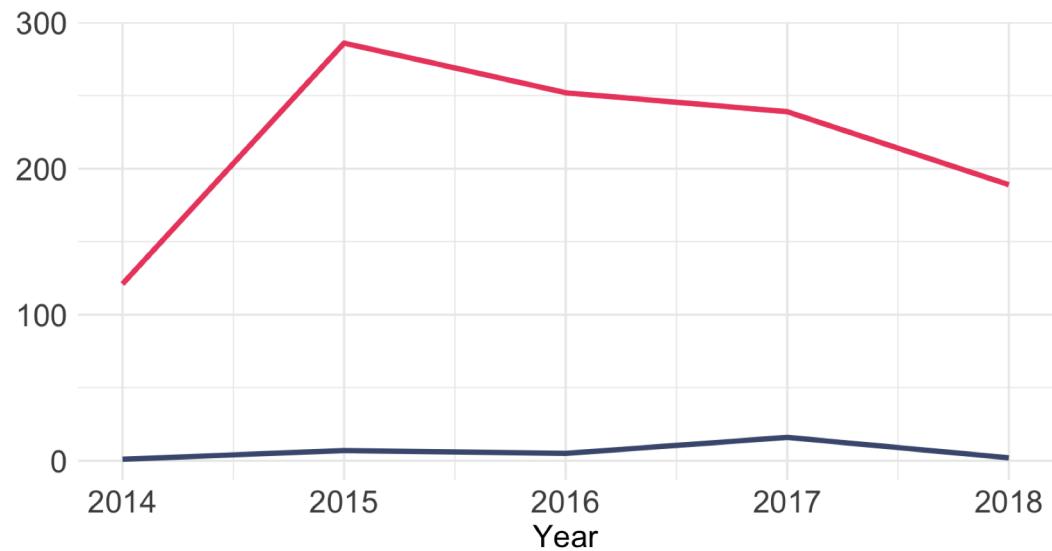
## Facebook and Amazon

- Facebook showing an upwards increase in data related roles.  
**Especially data science.**
- Amazon showing an overall increase in data related jobs.
- Dip in 2017 due to higher regulations and work environment.

— Business Analyst    — Data Analyst  
— Data Engineer      — Data Scientist



**accenture**



**Deloitte.**

## Consulting Firms

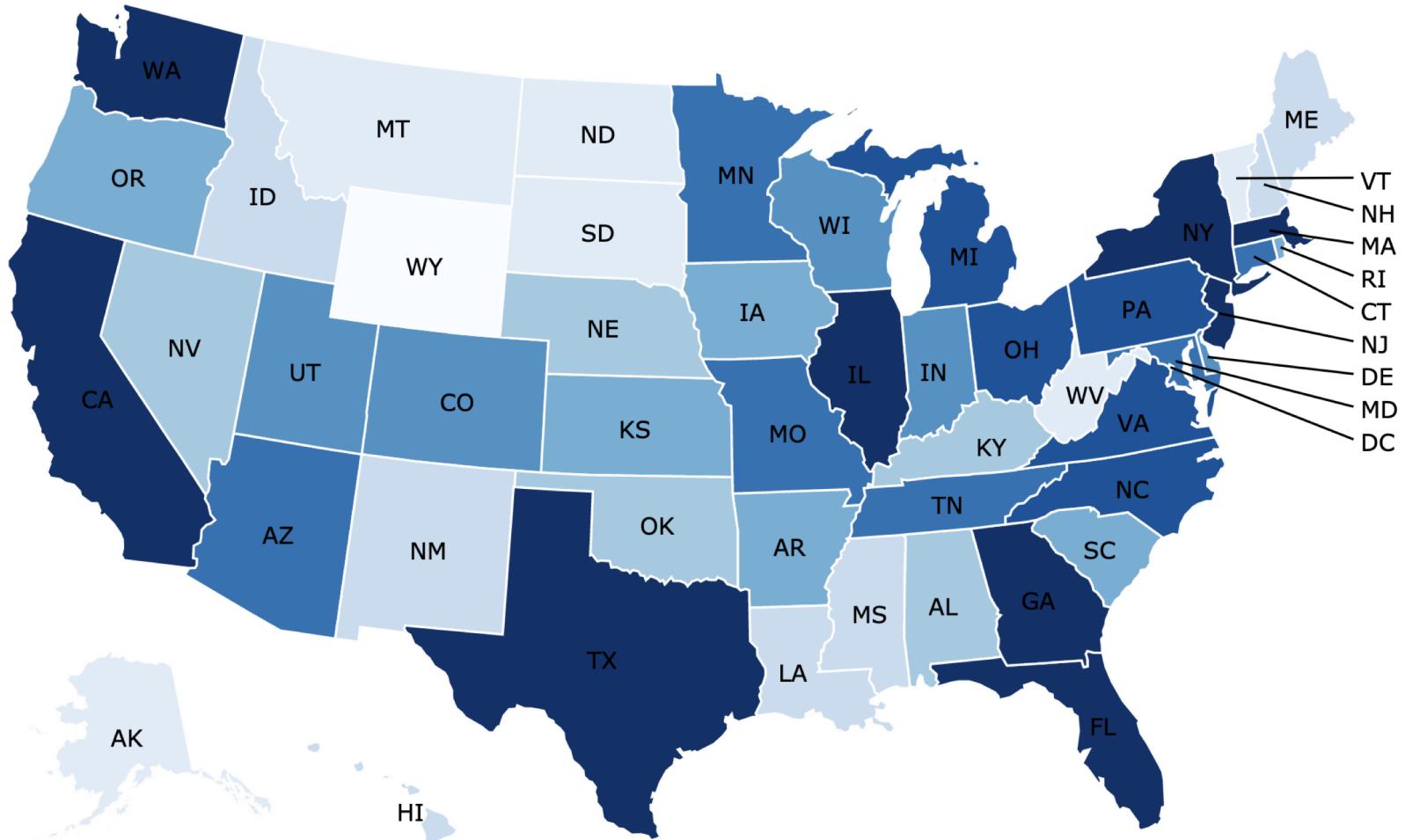
- Consulting firm **Deloitte**, one of the top data job employers, see a lowering trend in data related jobs for international students.
- We also see a similar trend in **accenture**, another consulting firm
- Potential Reasons
  - Stricter H1B regulations
  - Travel restrictions
  - “Buy American, Hire American”

— Business Analyst    — Data Analyst  
— Data Engineer      — Data Scientist

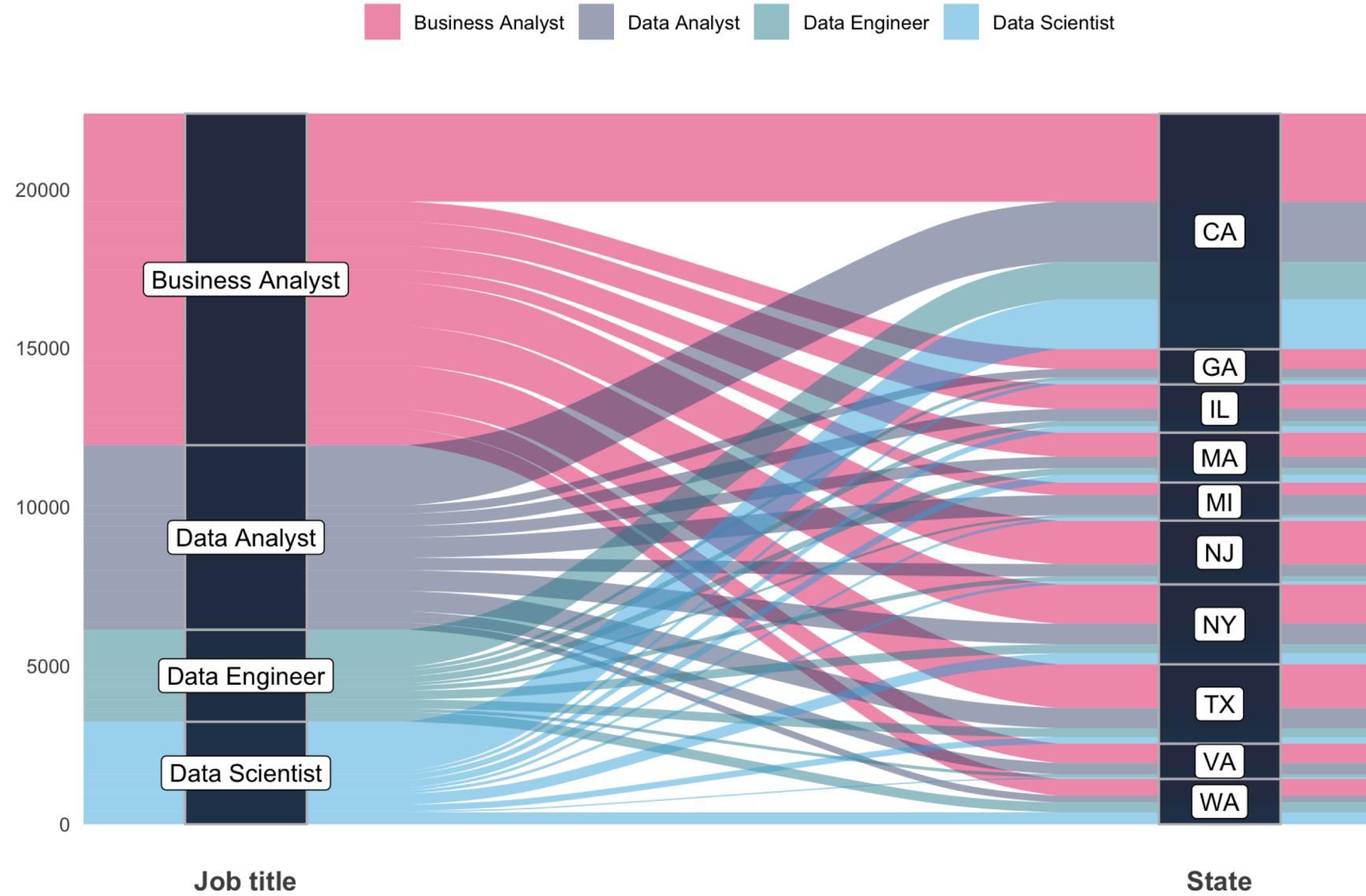
# 04 WHERE

Where you should be applying  
for and what to look at

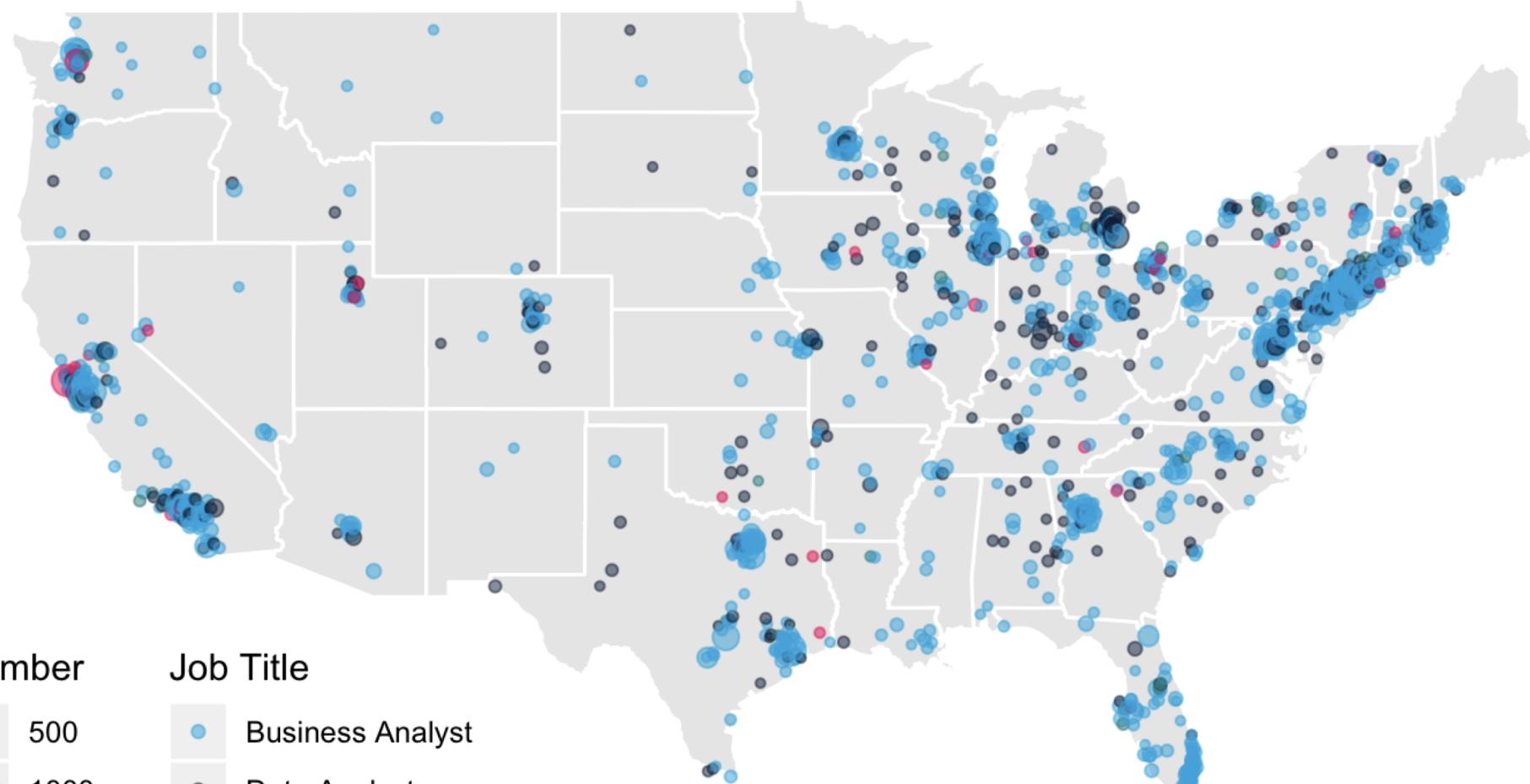
# Number of Data Jobs Per State in 2018



## 04 WHERE



## 04 WHERE

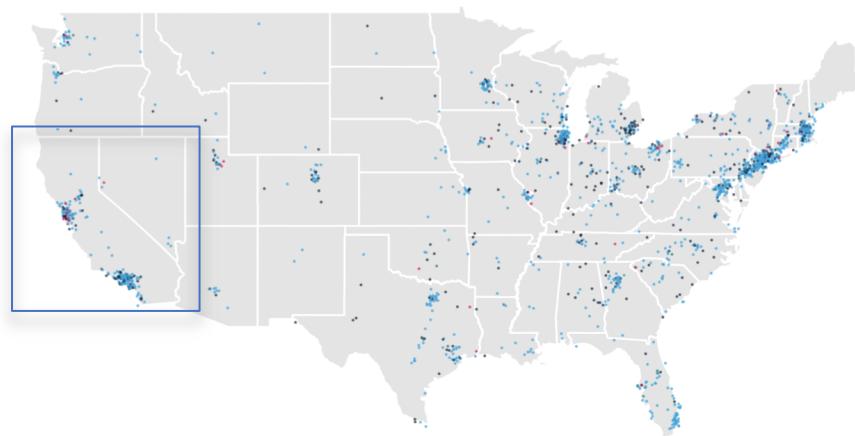


1 Point = 1 City

Color = Data role with highest number of jobs in that city

Data jobs in **USA National Wide**

## 04 WHERE



Number

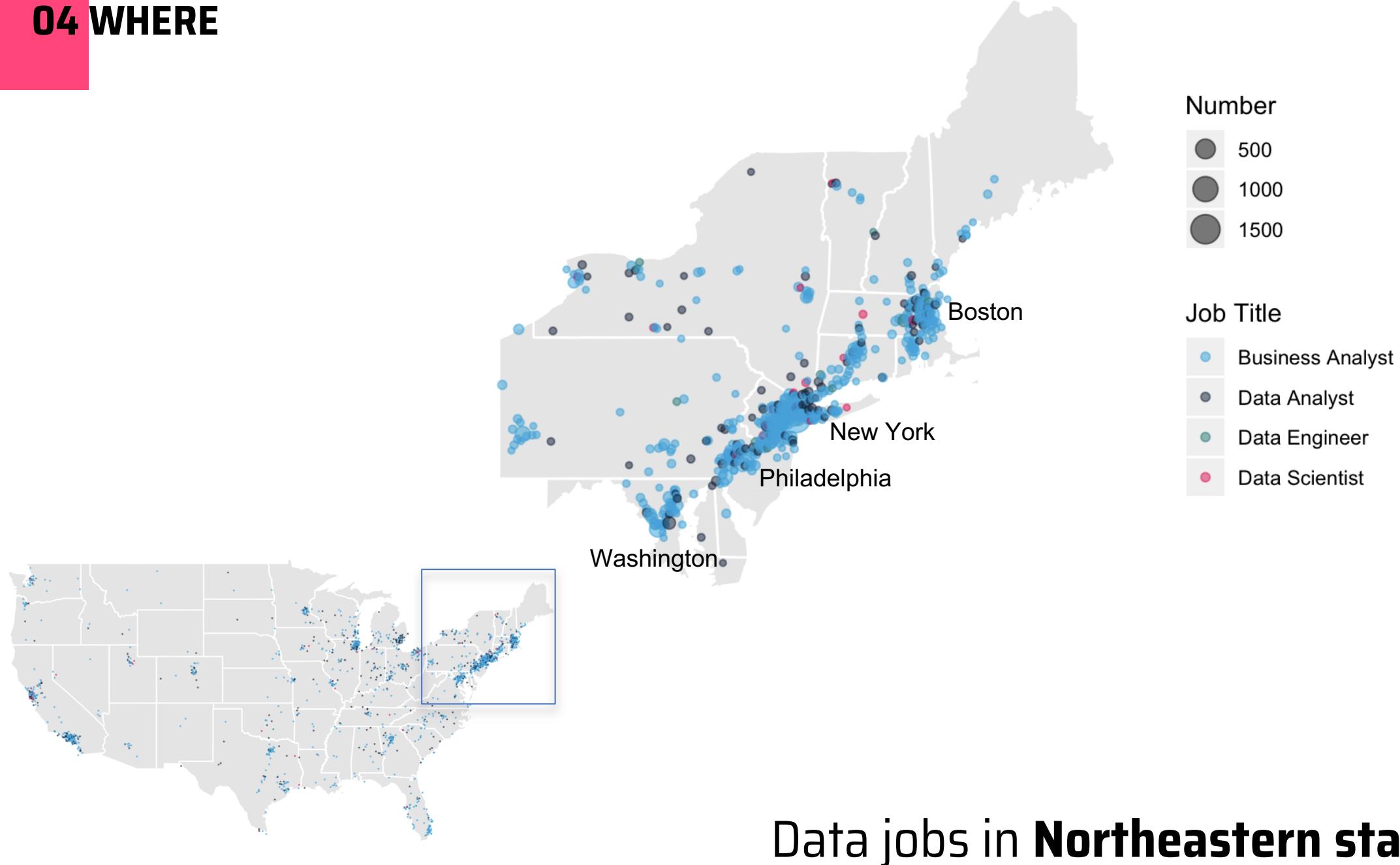
- 200
- 400
- 600

Job Title

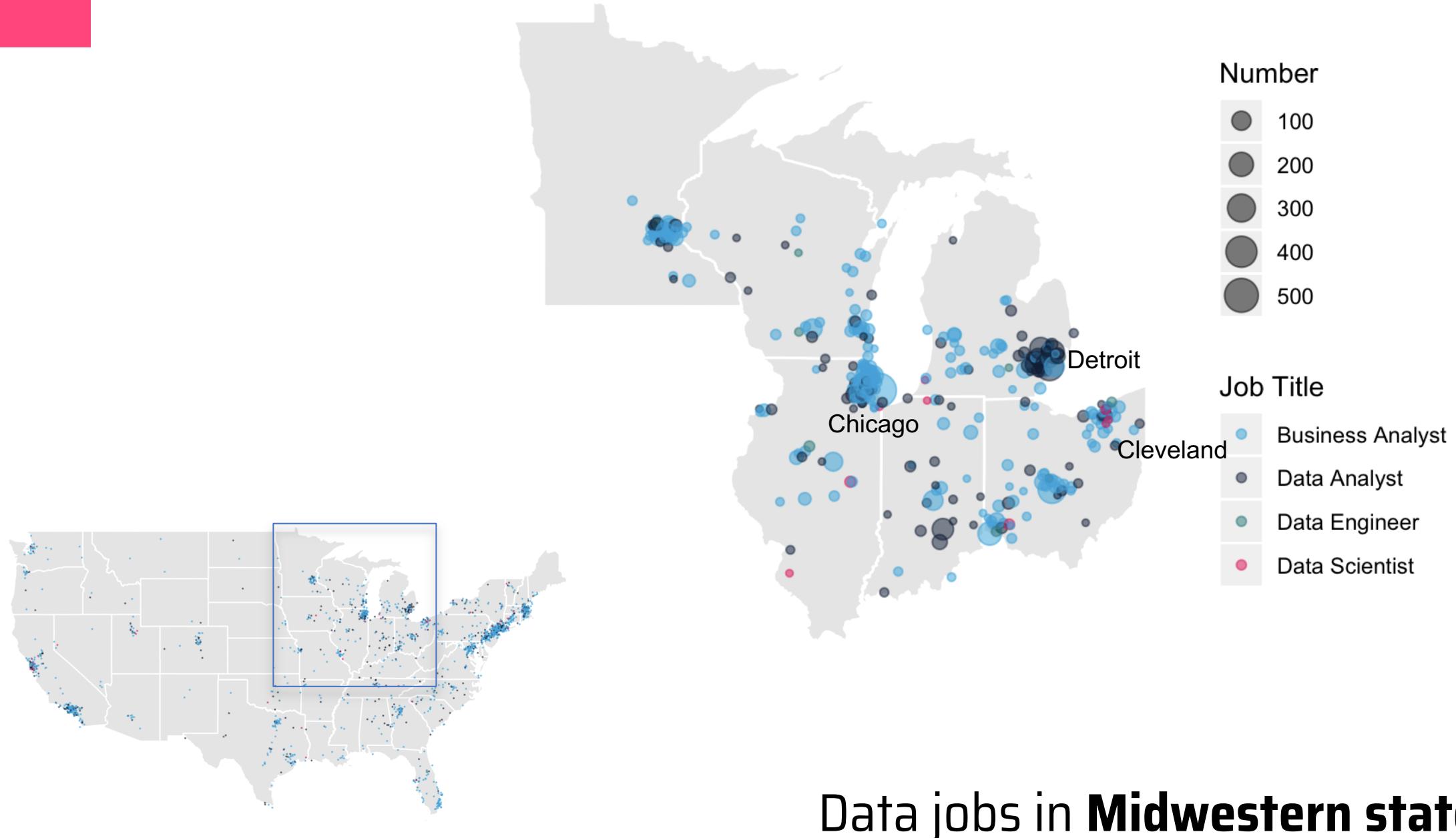
- Business Analyst
- Data Analyst
- Data Engineer
- Data Scientist

Data jobs in **California**

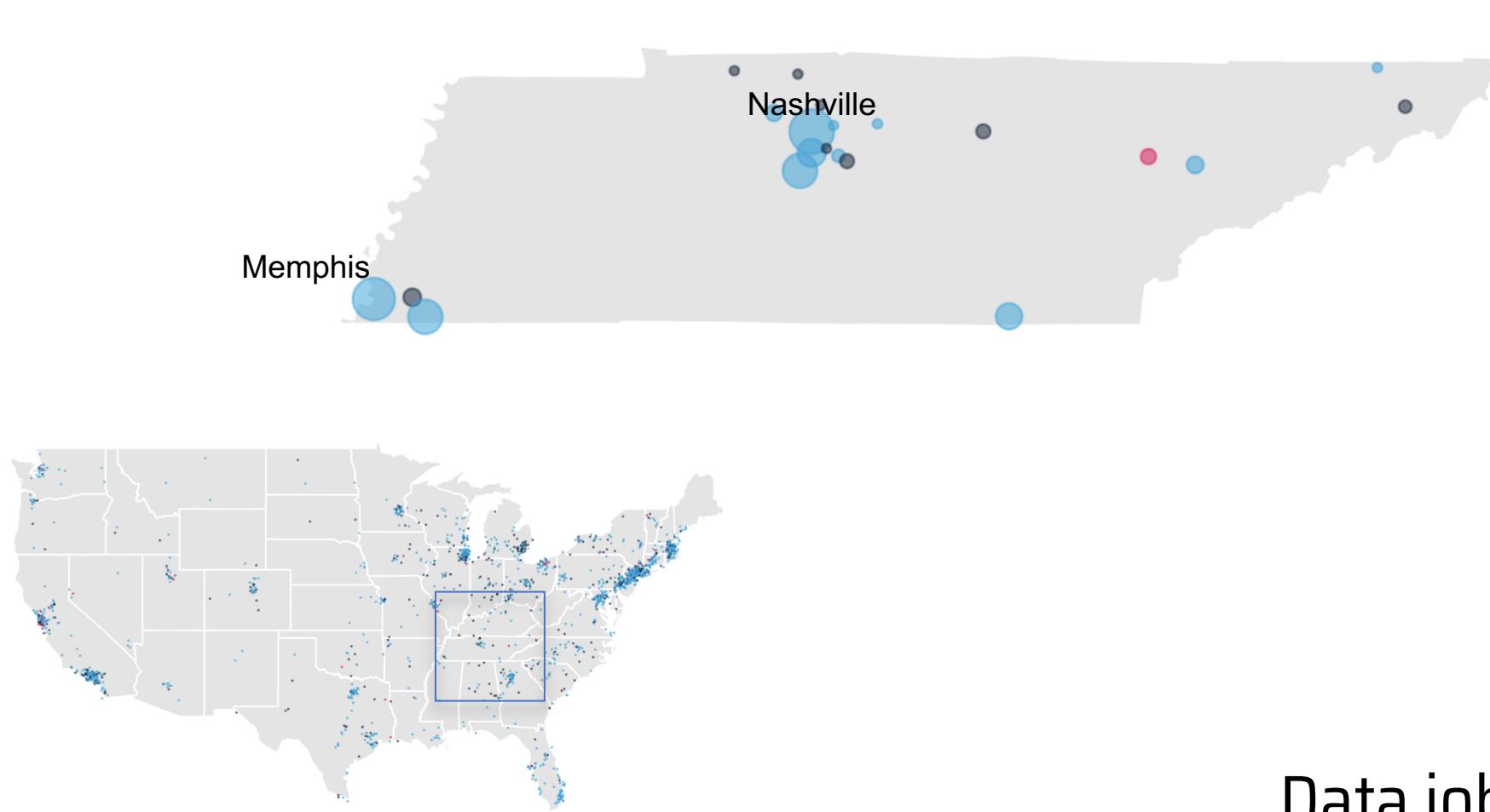
## 04 WHERE



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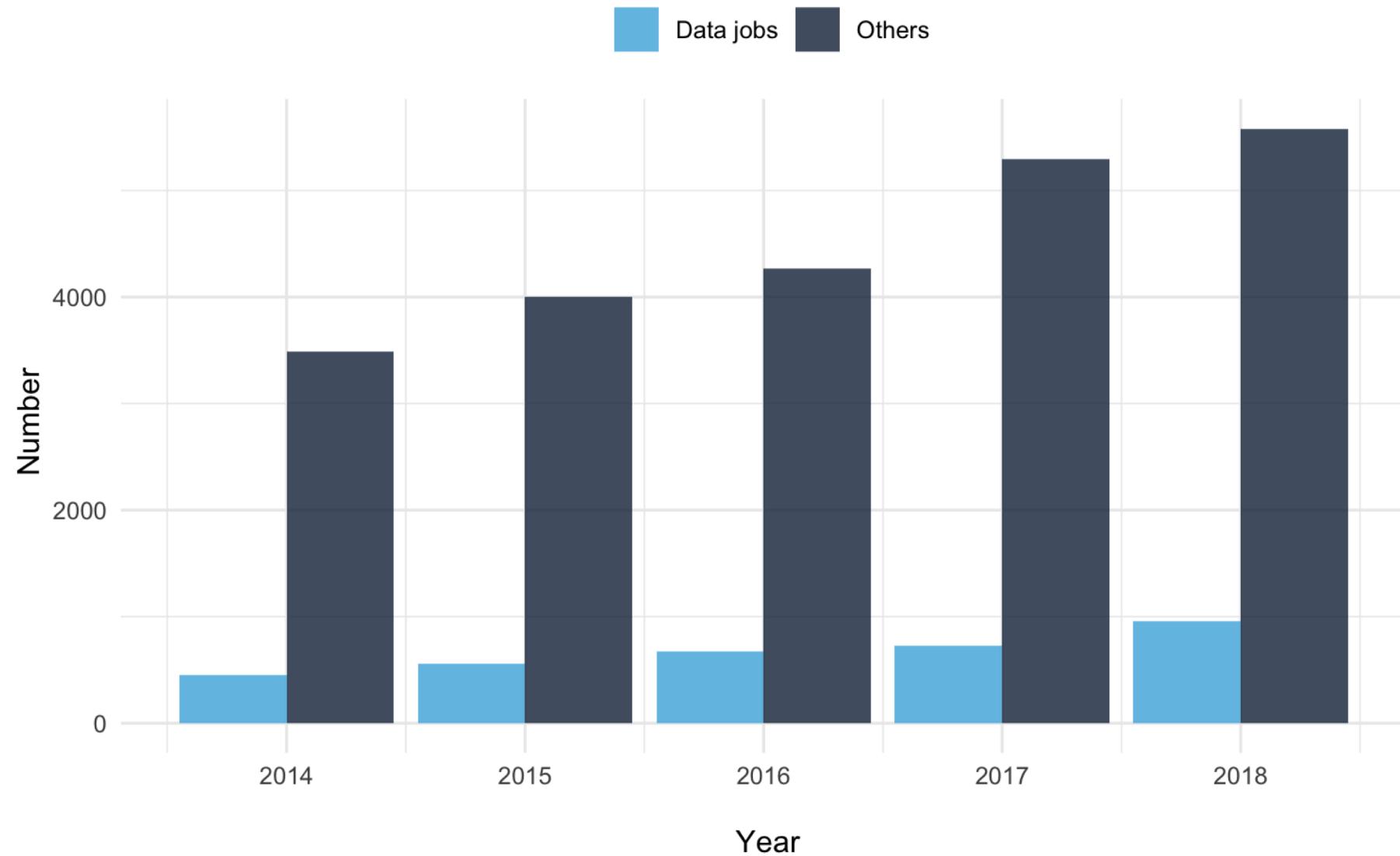


## 04 WHERE



Data jobs in **Tennessee**

# Data jobs in Tennessee



# 05 CONCLUSIONS

Big takeaways

- Stricter regulations and large number of applications reduce the likelihood of getting an H1B visa
- Highest number of **Business Analyst/Analytics** jobs available.
- Consulting firms are riskier to apply to as they have been showing a downward trend due to the nature of the job.
- Either **coasts**, and the midwest all good locations.
- **Relocation to CA** very possible. TN having very few jobs.

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