

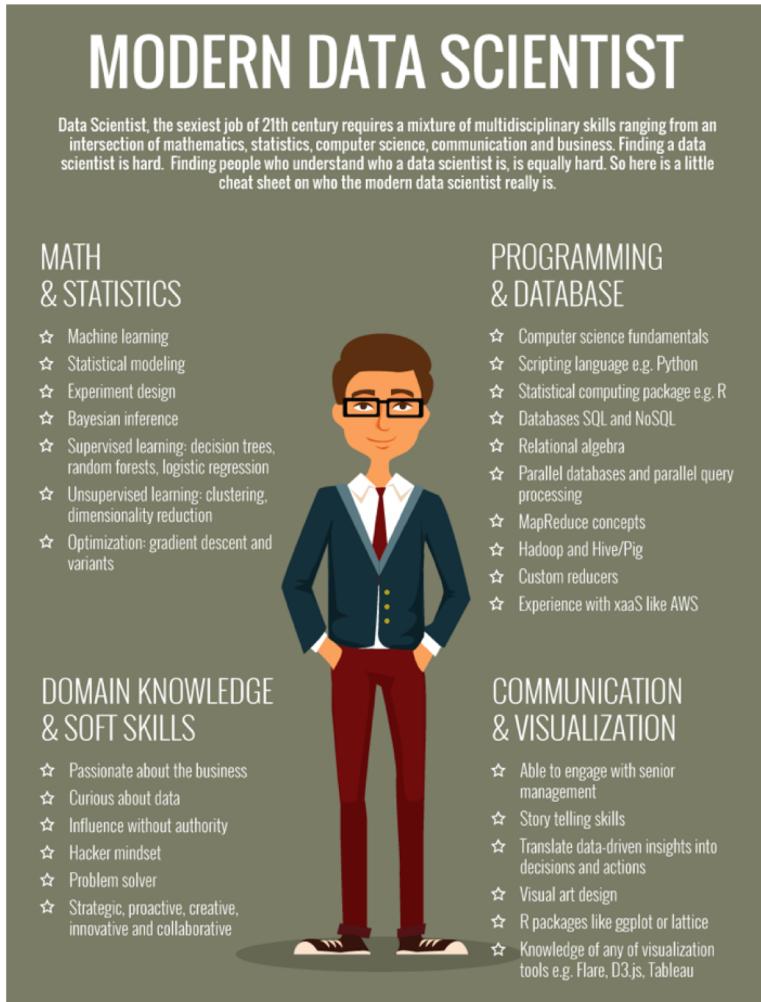


How to become a Googler?!

NYC Data Science BootCamp
R Shiny Project
SangYeon Choi

Why we are here?

- Why do we study data science here?
- There are different reasons, but the greatest goal is to get a job as a Data Scientist.



For Job?

- To-do list

1. Skill up! – Ability of Data Science



2. Interview Skill



3. Network

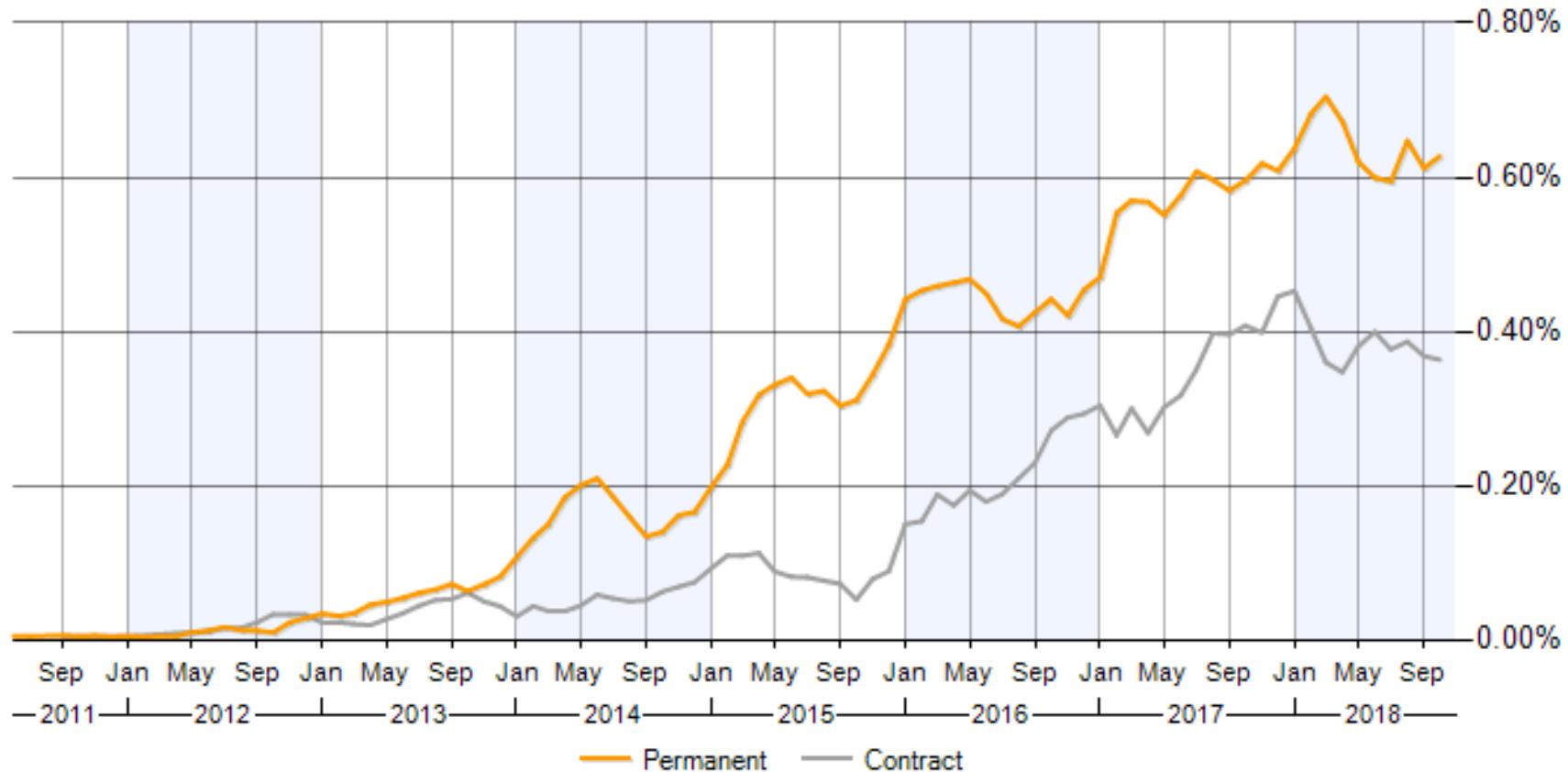


4. Find Job opportunity



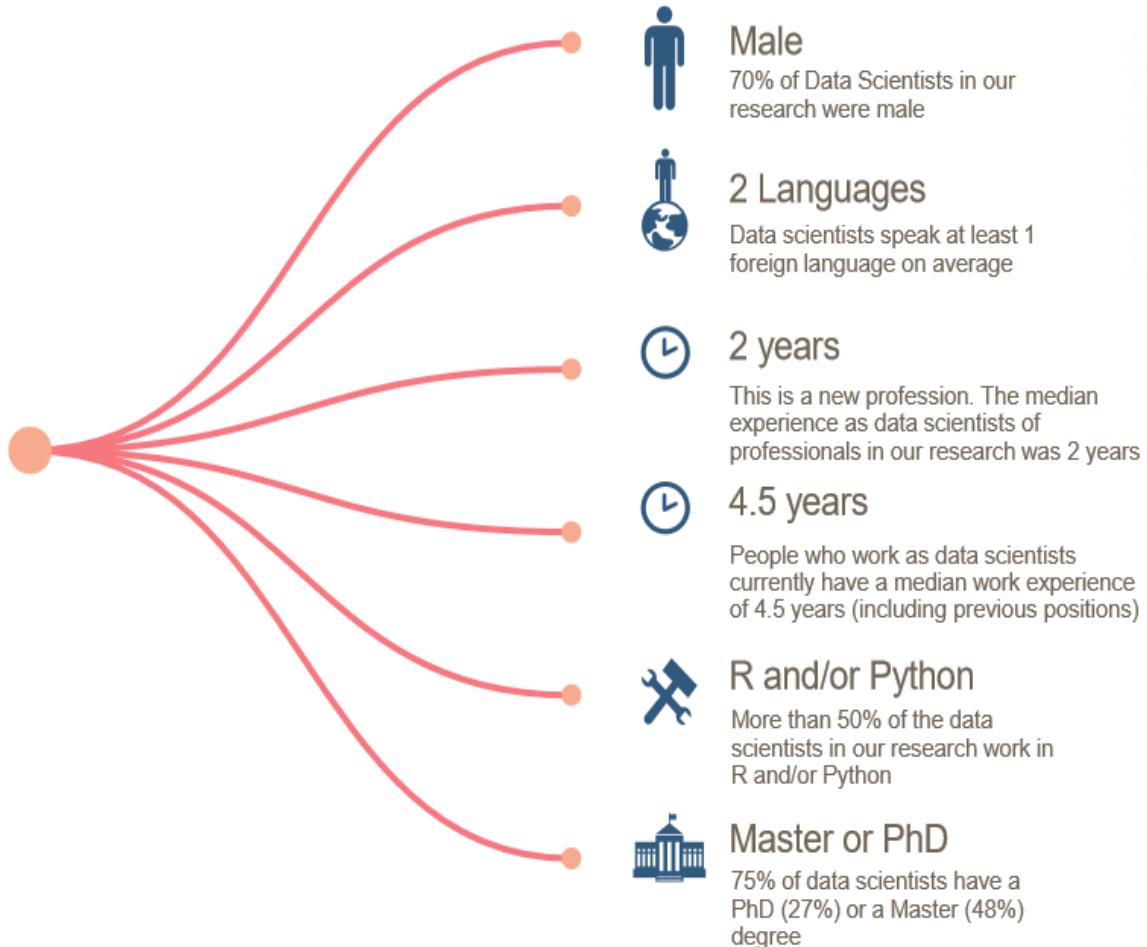
Yes! We Know

- Data Scientist is a prospective job
- Since interest in Big Data has increased, There is demand in all areas.



<Data Scientist Job demand Trend >

What skills should I have? Which company can I join?



amazon®

NETFLIX

Google

airbnb

intel®

Uber

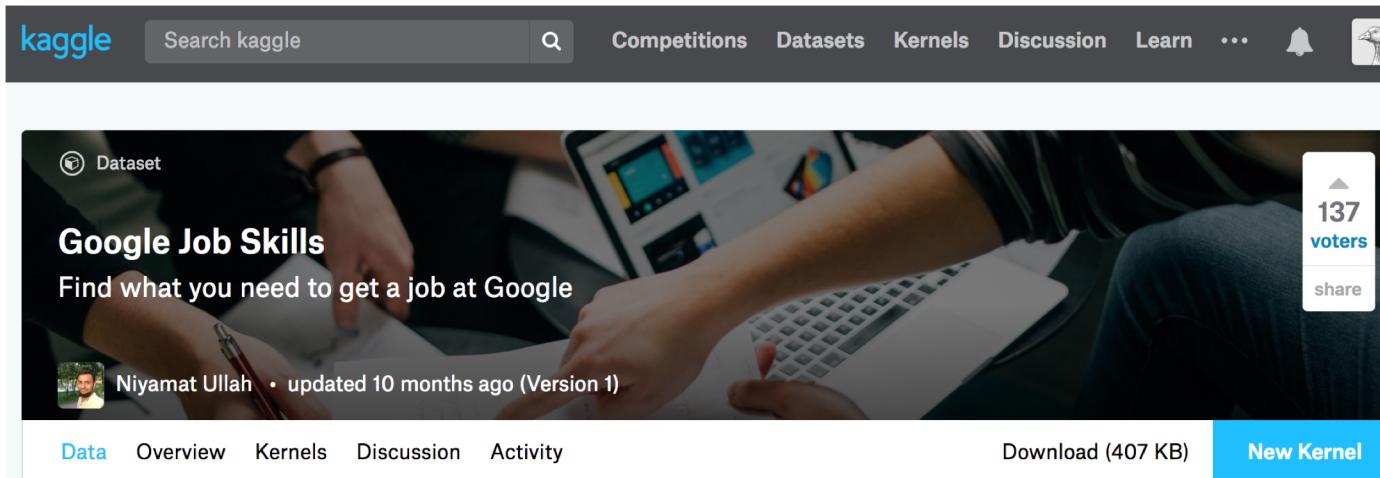
Tencent

365° DataScience



OK! Let's find out from data!

Data From Kaggle



The screenshot shows the Kaggle dataset page for "Google Job Skills". The title is "Google Job Skills" and the subtitle is "Find what you need to get a job at Google". The dataset was created by Niyamat Ullah and updated 10 months ago (Version 1). It has 137 voters. The page includes tabs for Data, Overview, Kernels, Discussion, and Activity. A prominent "New Kernel" button is visible. Below the main header, there's a "Data (407 KB)" section with an "API" button and a download link. The "About this file" section contains details about the CSV file "job_skills.csv" (1251 x 7 columns). The "Columns" section lists the fields: Company, Title, Category, Location, Responsibilities, Minimum Qualifications, Preferred Qualifications, and Maximum Qualifications.

- **Kaggle Data sets**
: google-job-skills
- **Features**
: 7 feature
- **The source of the data**
: Google Career site
18' 01 Collected data
Using Selenium

Main Questions

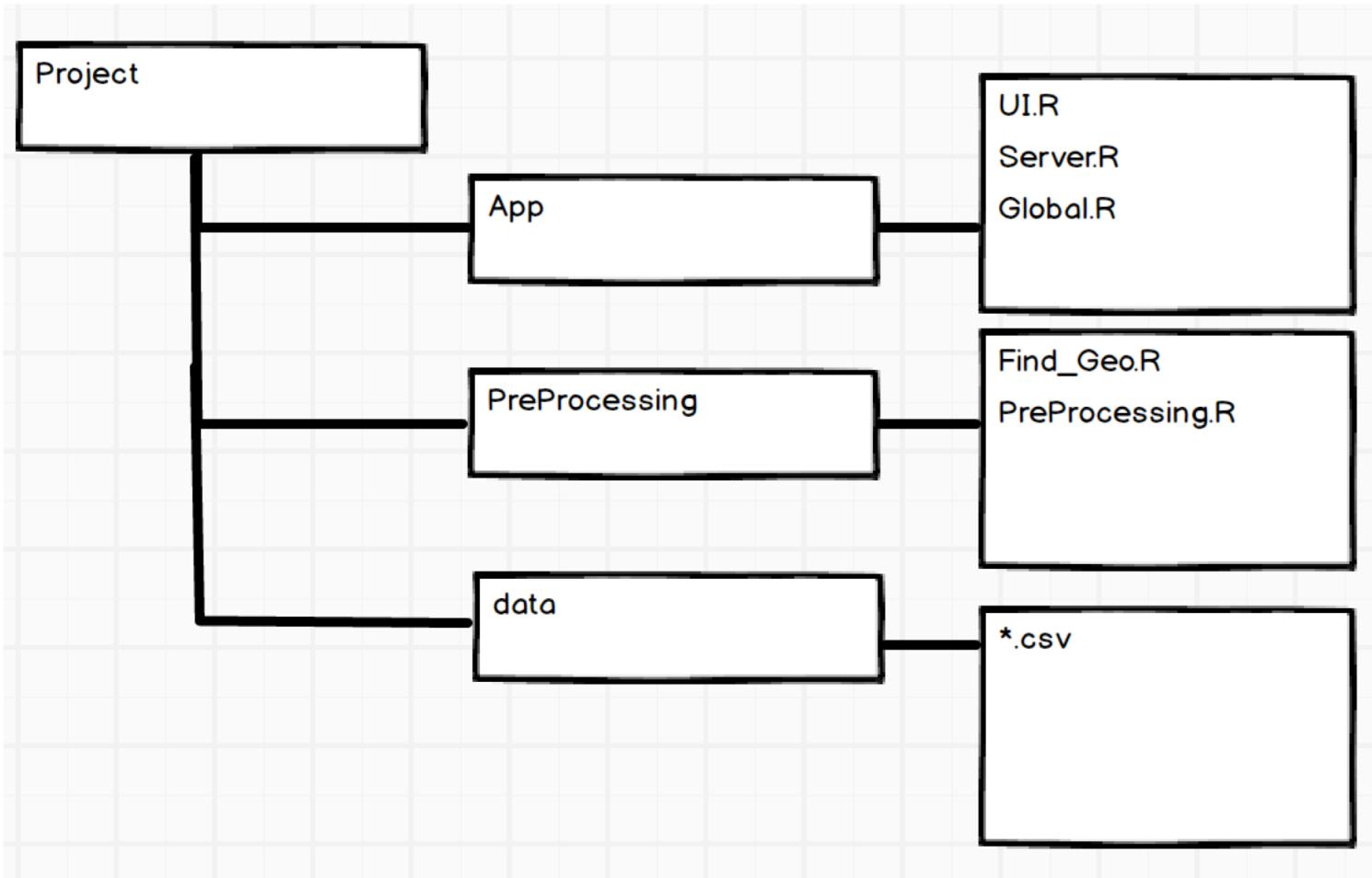
- Q1. Where are google hiring? And what is the size of the recruitment?

- Q2. What are the core skill required for each domain? Experience years?
(ex) Cloud / partners / Android)

- Q3. What is your preferred Program Language by Position?
(ex) Does Data scientist really use python/R?)

- Q4. What are google preferred mind sets except Skill?

Project Structure



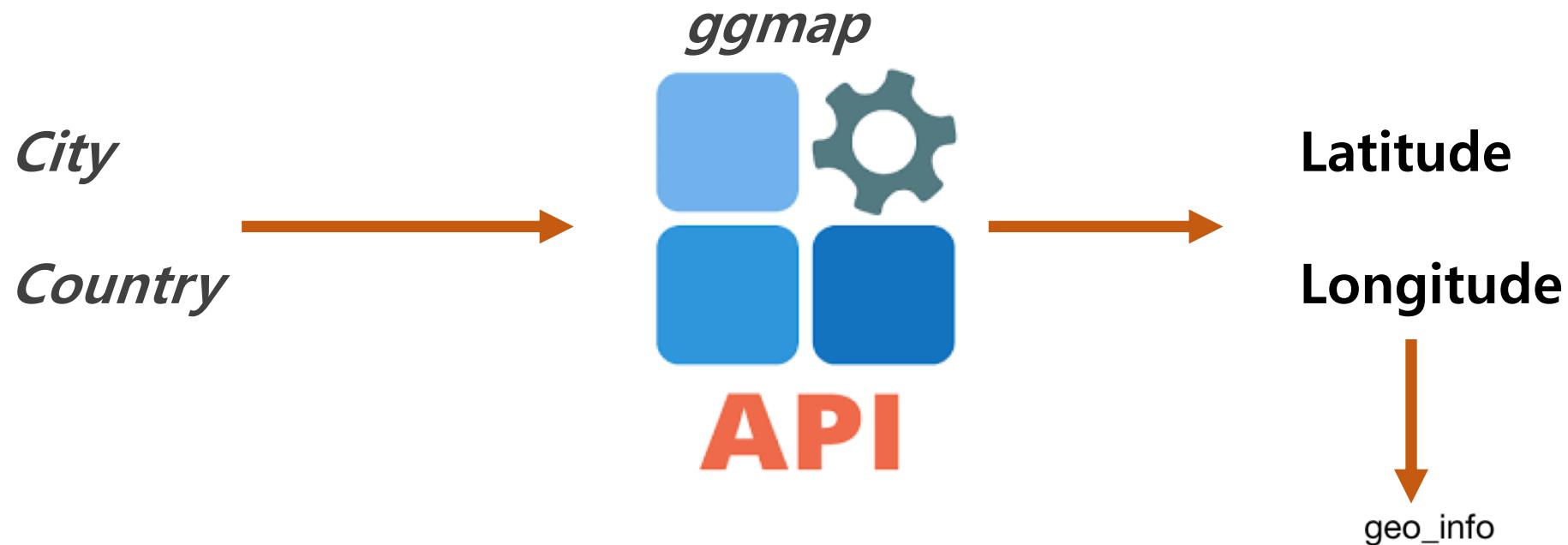
- **R Shiny Component**
: Shiny Dashboard / ggplot / leaflet

- **Find_Geo.R**
: Transform Geo lat/lot
- **PreProcessing.R**
: Add New Feature / ETL / Missing Value

Make a extra feature – (1)

A Company	A Title	A Category	A Location	A Responsibilities	A Minimum Qualifica	A Preferred Qualifica	
Company name. Because the data set contain only Google jobs, the company field will always have value "Google"	The title of the job	Job Category	Location of the job	Responsibilities of the job	Minimum qualifications for the job	Preferred qualifications for the job	
Google 98% Business Intern 2... 3%	Sales & Account ... 13%	Mountain View, ... 15%	Responsibilities a... 3%	Currently enrolle... 3%	Previous internsh... 3%		
YouTube 2% MBA Intern, Sum... 3%	Marketing & Co... 13%	Sunnyvale, CA, ... 12%	Google interns ar... 3%	Must be pursuing... 3%	Interest in the tec... 3%		
Other (1) 0% Other (793) 94%	Other (22) 73%	Other (91) 72%	Other (800) 95%	Other (806) 95%	Other (820) 95%		
Google Data Analyst Product and Tools Operations, Google Technical Services	Technical Solutions	New York, NY, United States	as... Collect and analyze data to draw insight and identify strategic solutions. Build consensus by facilitating broad collaboration with clear communication and documentation. Work with cross-functional st...	Employee... Bachelor's degree in Business, Economics, Statistics, Operations Research or related analytical field, or equivalent practical experience. 2 years of work experience in business analysis. 1 year of ex...	Experience partnering or consulting cross-functionally with senior stakeholders. Proficiency in a database query language (e.g. SQL). Ability to manage multiple projects in an ambiguous environment. S...		
<i>positions</i>		<i>City / Country</i>		<i>Preferred degree</i>		<i>Language</i>	
				<i>Experience</i>			

Make a extra feature – (2)



	city	lon	lat
1	Singapore	103.8	1.366667
2	Shanghai	121.45806	31.222222
3	New York	-74.005973	40.714269
4	Mountain View	-122.08385	37.38605
5	Sunnyvale	-122.03635	37.36883
6	Dublin	-6.27113	53.38046

Shiny Application

https://helotheresy.shinyapps.io/way_to_googler/



Way to Googler!

≡

Position Map

- domain
- Prefer language
- word cloud
- data Explorer

Google Hiring Map

A map of North America showing job hiring locations with blue pins. A callout bubble over Seattle indicates a job count of 27. The map includes state/province boundaries and city labels like San Francisco, Los Angeles, Denver, Chicago, New York, and Boston. The map is titled "Google Hiring Map" and has a "Leaflet" attribution at the bottom.

NORTH PACIFIC

Select continent

Which continent?

North America

Show 5 entries

Search:

	city	positions	count
1	Seattle	analyst	1
2	Seattle	designer	2
3	Seattle	engineer	1
4	Seattle	intern	3

Position map – (1)

Way to Googler!

≡

Position Map

- domain
- Prefer language
- word cloud
- data Explorer

Google Hiring Map

A map of North America with job count markers. A callout box highlights Seattle with a job count of 27. Other major cities shown include San Francisco, Los Angeles, Denver, Phoenix, Dallas, Houston, Atlanta, and New York. The map also shows parts of Canada and the surrounding oceans.

Leaflet | © OpenStreetMap contributors, CC-BY-SA, Map tiles by Stamen Design, CC BY 3.0 — Map data © OpenStreetMap

Select continent

Which continent?

North America

Show 5 entries

Search:

	city	positions	count
1	Seattle	analyst	1
2	Seattle	designer	2
3	Seattle	engineer	1
4	Seattle	intern	3

Position map – (2)

Way to Googler! ☰

Position Map

domain

Prefer language

word cloud

data Explorer

Google Hiring Map

The map displays numerous blue location pins across Europe, with a callout box highlighting 'London' which has a 'Job count : 61'. Below the map is a legend with '+' and '-' symbols. The map also shows various bodies of water like the North Atlantic Ocean, English Channel, Bay of Biscay, and Mediterranean Sea.

Leaflet © OpenStreetMap contributors, CC-BY-SA, Map tiles by Stamen Design, CC BY 3.0 — Map data © OpenStreetMap

Select continent

Which continent?

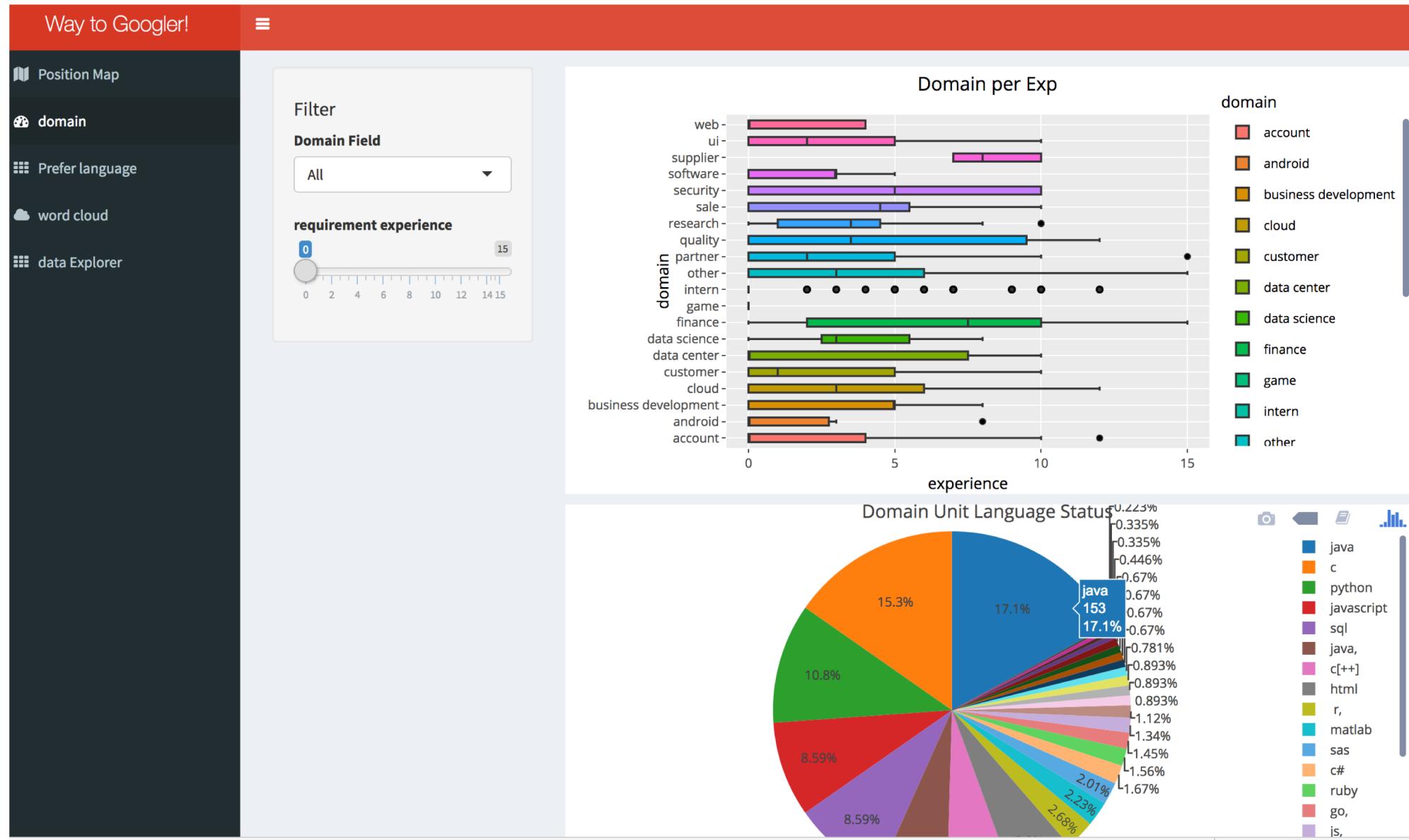
Europe

Show 5 entries

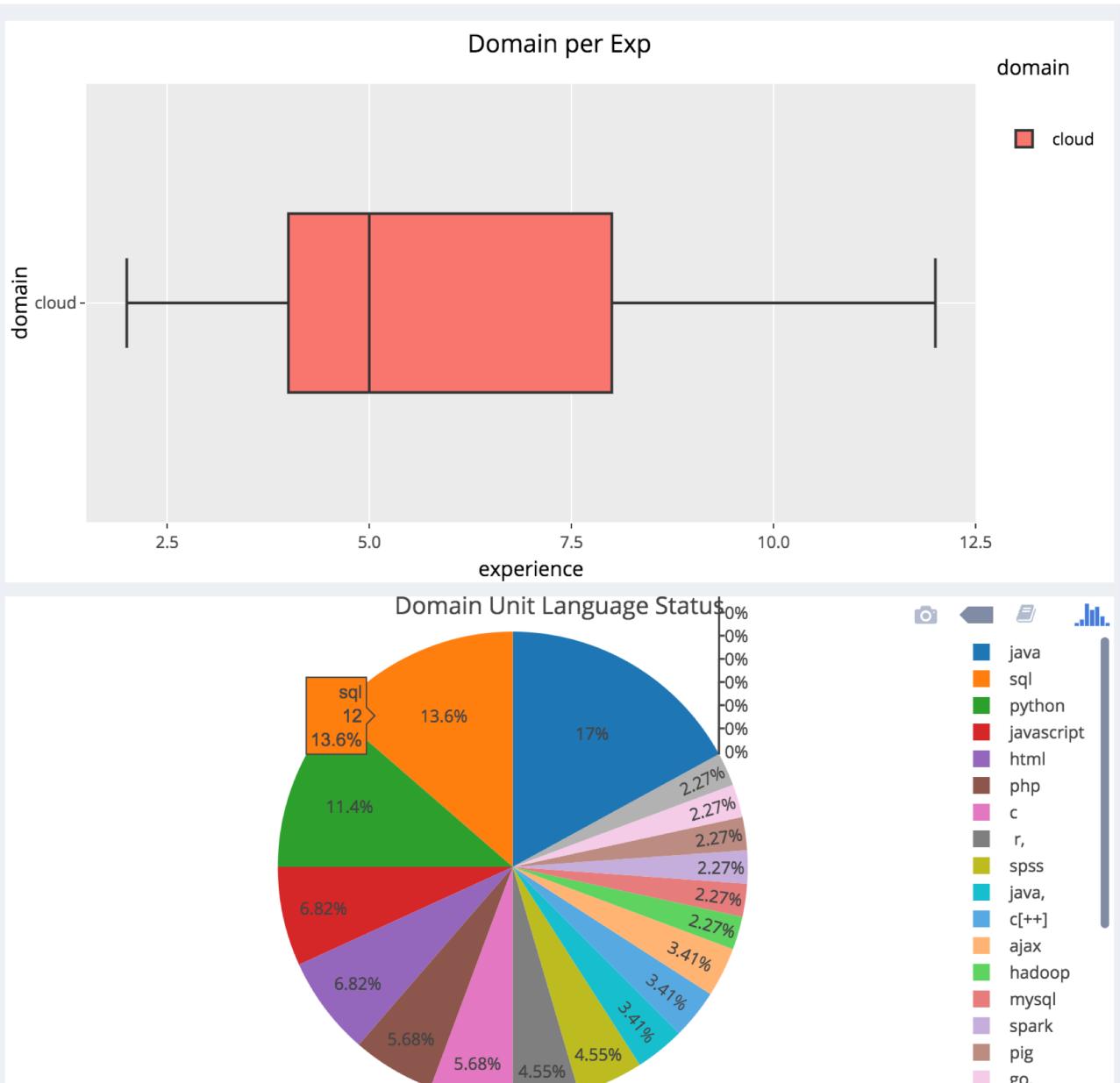
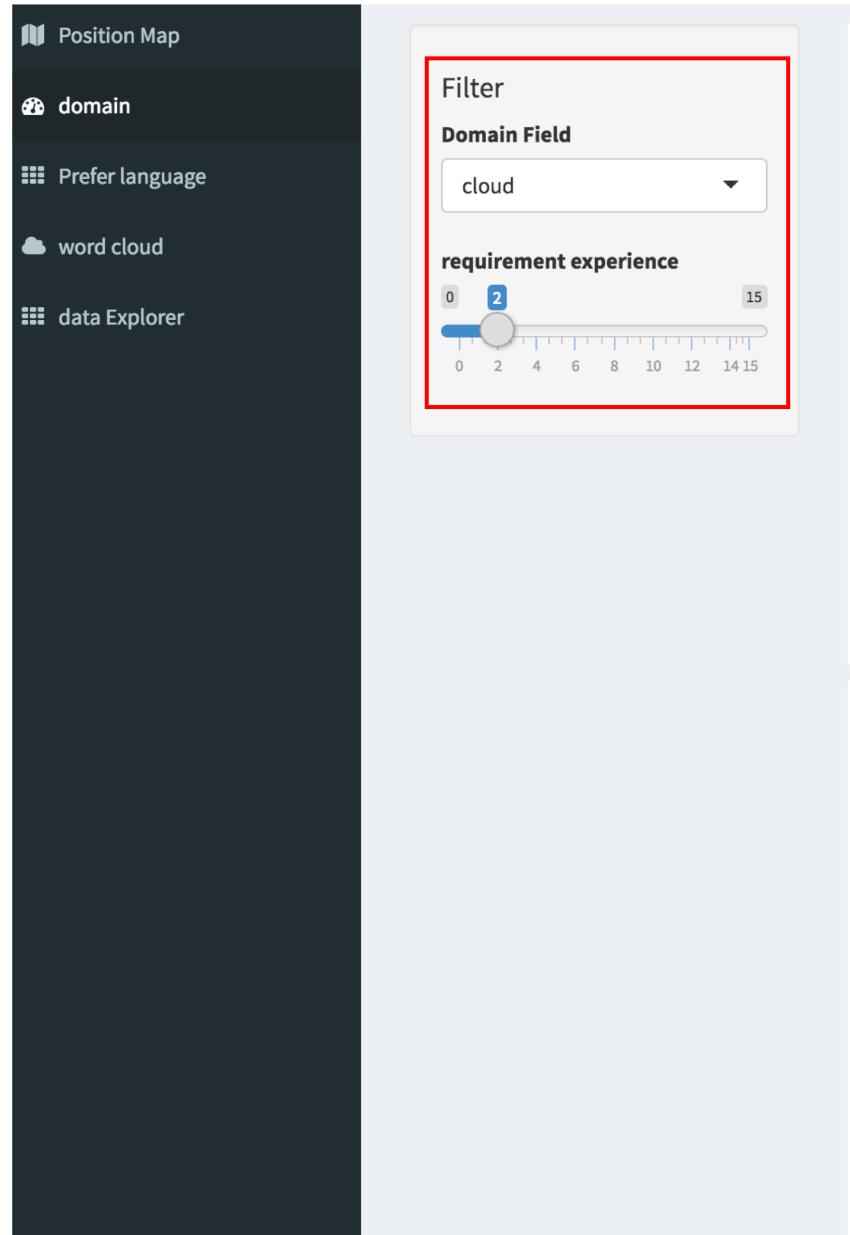
Search:

	city	positions	count
1	London	analyst	4
2	London	consultant	7
3	London	counsel	6
4	London	designer	3

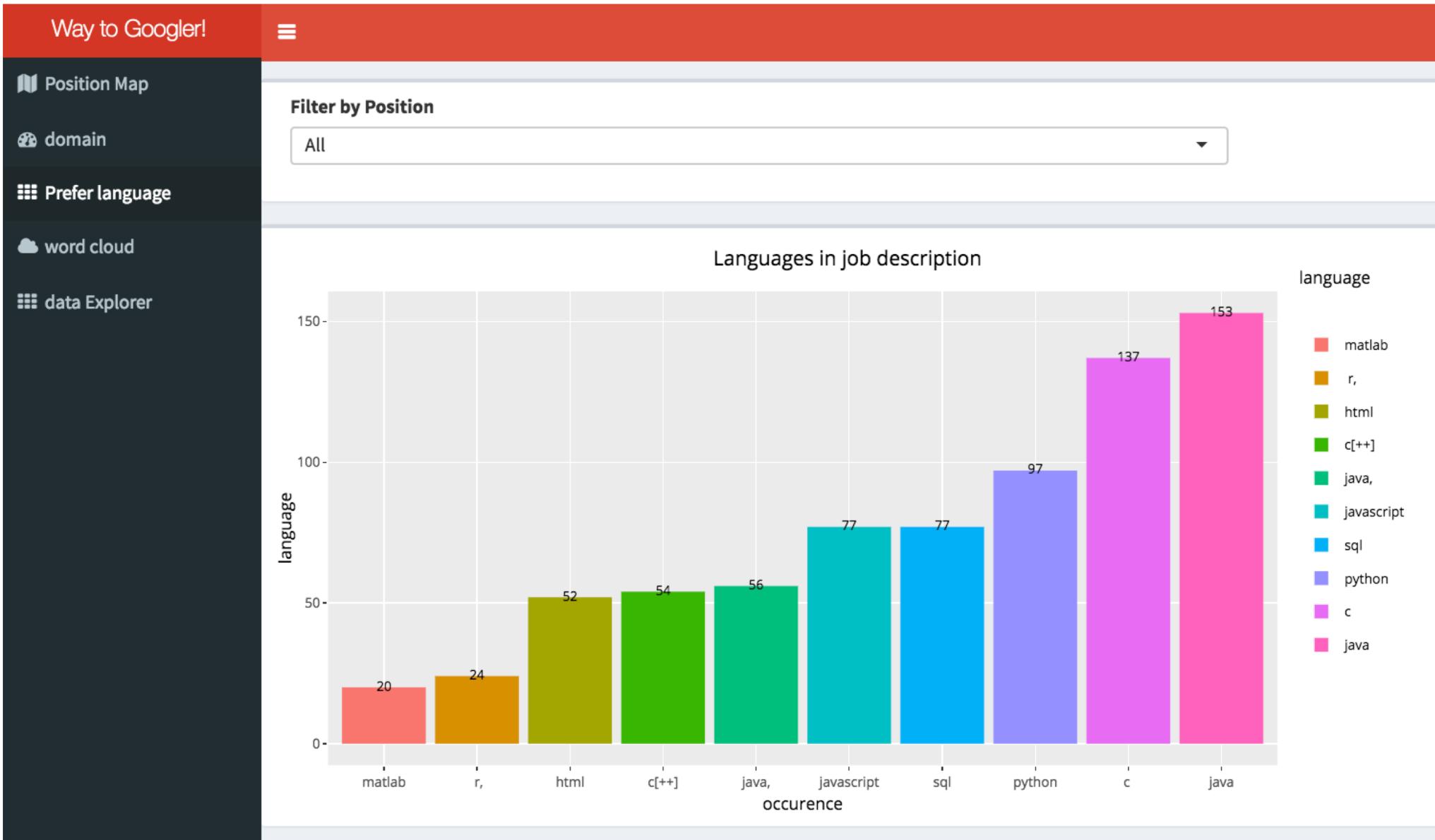
Domain – (1)



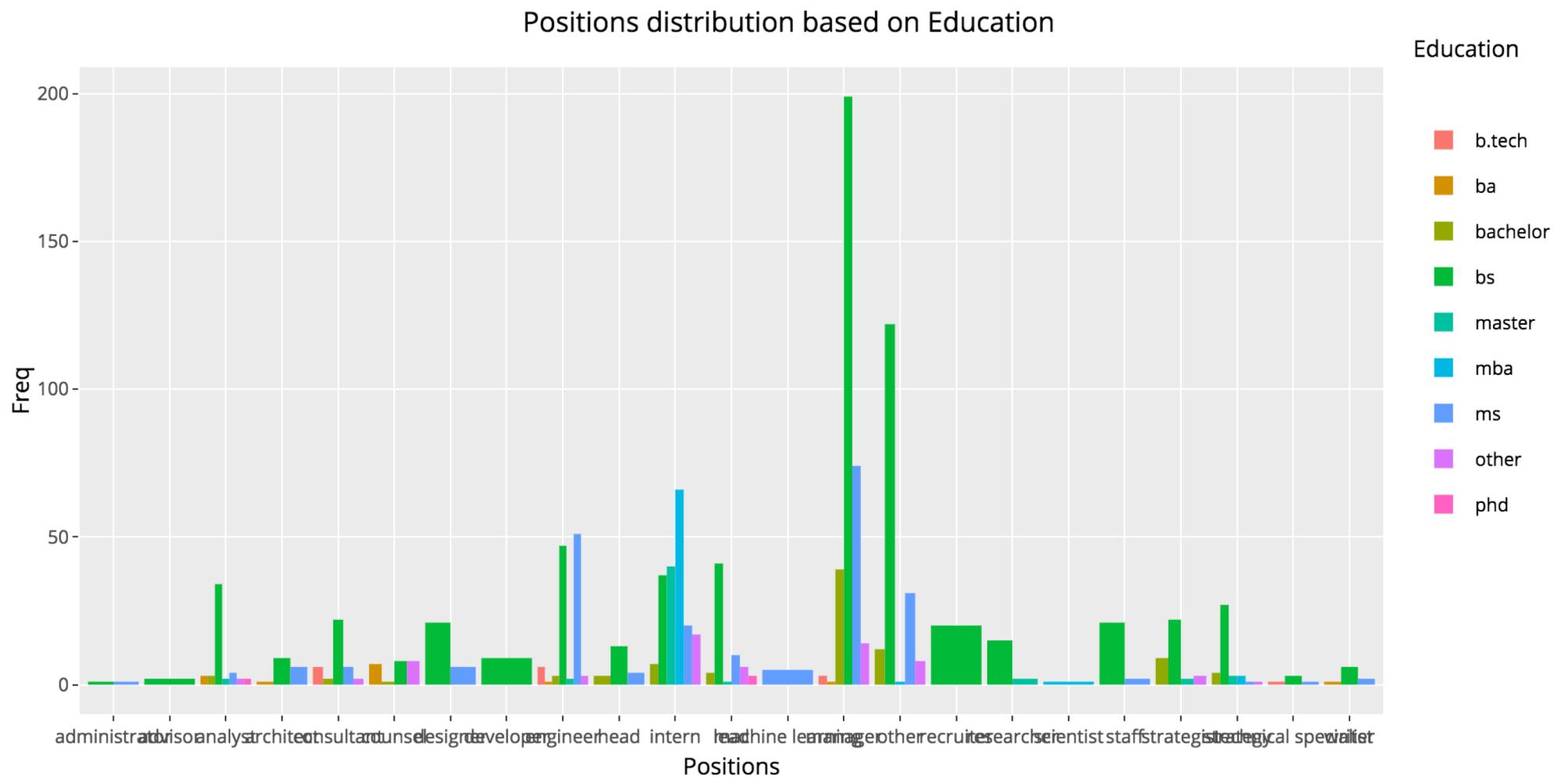
Domain – (2)



Prefer Language – (1)



Prefer Language – (2)



Word Cloud

W Cloud

Select Field

Minimum.Qualifications ▾

Responsibilities

Minimum.Qualifications

Preferred.Qualifications



Data Explorer

Way to Googler!

≡

Country: All

All
Singapore
China
United States
Ireland
Taiwan
Netherlands
Germany

2 2 Google development engineer (sde), cable/connector

Domain: All

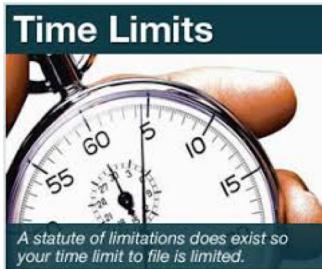
Position: All

Search:

Category	Location	Responsibilities	Minimum.Qualifications	Preferred.Qualifications	city		
Program Management	Singapore	Shape, shepherd, ship, and show technical programs	ba/bas degree or equivalent practical experience. 3	experience in the business technology market as a	Singapore	S	
Manufacturing & Supply Chain	Shanghai, China	Drive cross-functional activities in the supply ch	bs degree in an engineering discipline or equivale	bsee, bsme or bsie degree. experience of using sta	Shanghai	C	
data analyst, product and tools operations, google technical services	Technical Solutions	New York, NY, United States	Collect and analyze data to draw insight and ident	bachelor's degree in business, economics, statisti	experience partnering or consulting cross-function	New York	U S
developer advocate, partner engineering	Developer Relations	Mountain View, CA, United States	Work one-on-one with the top Android, iOS, and web	ba/bas degree in computer science or equivalent pra	experience as a software developer, architect, tec	Mountain View	U S
program manager, audio visual (av) deployments	Program Management	Sunnyvale, CA, United States	Plan requirements with internal customers. Provide	ba/bas degree or equivalent practical experience. 4	cts certification. experience in the construction	Sunnyvale	U S
associate account			Communicate with				

Conclusion & limitation

1. Time limitation was limitation
: homework .. Project .. Shiny..



2. UI (Web) development is difficult.

3. Description is a long sentence, so I couldn't analyze properly.
: I just use simple word match

Responsibilities

Shape, shepherd, ship, and show technical programs designed to support th
Measure and report on key metrics tied to those programs to identify any nee
Communicate status and identify any obstacles and paths for resolution to st
Establish expectations and rationale on deliverables for stakeholders and prc
Provide program performance feedback to teams in Product, Engineering, Sa

Conclusion & limitation

4. Shortage of Chart

: It was possible to analyze various combinations.

5. Absence of time series data

: If you check the size of position, domain, and language by increasing with time, you might know the trend.

Thank you!

