

# Project 1

2024-11-24

ChatGPT insights:

## 1. Location:

Silicon Valley: \$120,000-\$200,000 per year

New York: \$100,000-\$170,000 per year

Chicago: \$85,000-\$130,000

Other Cities: \$70,000-\$110,000

## 2. Experience

Entry-level(0-2 years)

\$60,000-\$90,000 per year

Mid-level(3-5 years)

\$90,000-\$130,000 per year

Senior Level(5+ years)

\$120,000-\$200,000 per year

## 3. Industry

Tech companies often offer the highest salaries

Finance offers fairly high salaries

Healthcare tends to offer salaries of \$90,000-\$150,000 per year

Startups generally offer the lower salaries

## 4. Skills/Specialization

Programming(R,Python,SQL),Machine Learning/Deep Learning,Data Engineering can get a higher salary

## 5. Other Factors: Company Size, Remote Work, Education Level can also lead to higher salaries

The main question is how much should a full time data scientist get paid for a salary

What is a competitive salary to pay a data scientist

Important factors to think about are the location of the job,experience level,the size of the company and amount of remote work

```
library(dplyr)
```

```
##  
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':  
##  
##     filter, lag
```

```
## The following objects are masked from 'package:base':  
##  
##     intersect, setdiff, setequal, union
```

```
library(ggplot2)
```

```
#file.choose()
```

```
infile="C:\\\\Users\\\\kboni\\\\Downloads\\\\katelynbonitatibus.module5RProject.csv"
```

```
salary_data=read.csv(infile)
```

```
head(salary_data)
```

```
##   X work_year experience_level employment_type          job_title  
## 1 0    2020             MI            FT      Data Scientist  
## 2 1    2020             SE            FT Machine Learning Scientist  
## 3 2    2020             SE            FT      Big Data Engineer  
## 4 3    2020             MI            FT Product Data Analyst  
## 5 4    2020             SE            FT Machine Learning Engineer  
## 6 5    2020             EN            FT      Data Analyst  
##   salary salary_currency salary_in_usd employee_residence remote_ratio  
## 1 70000        EUR        79833           DE            0  
## 2 260000       USD        260000          JP            0  
## 3 85000        GBP        109024          GB            50  
## 4 20000        USD        20000           HN            0  
## 5 150000       USD        150000          US            50  
## 6 72000        USD        72000           US            100  
##   company_location company_size  
## 1                 DE         L  
## 2                 JP         S  
## 3                 GB         M  
## 4                 HN         S  
## 5                 US         L  
## 6                 US         L
```

```
summary(salary_data)
```

```

##           X      work_year   experience_level employment_type
## Min.   : 0.0   Min.   :2020    Length:607       Length:607
## 1st Qu.:151.5  1st Qu.:2021   Class :character  Class :character
## Median :303.0  Median :2022   Mode  :character  Mode  :character
## Mean   :303.0  Mean   :2021
## 3rd Qu.:454.5  3rd Qu.:2022
## Max.   :606.0  Max.   :2022
## 
## job_title          salary      salary_currency salary_in_usd
## Length:607        Min.   : 4000    Length:607       Min.   : 2859
## Class :character  1st Qu.: 70000   Class :character  1st Qu.: 62726
## Mode  :character  Median : 115000  Mode  :character  Median :101570
##                   Mean   : 324000
##                   3rd Qu.: 165000
##                   Max.   :30400000
## 
## employee_residence remote_ratio company_location company_size
## Length:607        Min.   : 0.00   Length:607       Length:607
## Class :character  1st Qu.: 50.00   Class :character  Class :character
## Mode  :character  Median :100.00   Mode  :character  Mode  :character
##                   Mean   : 70.92
##                   3rd Qu.:100.00
##                   Max.   :100.00

```

The work year is from 2020-2022

The experience level is either entry level,middle or senior

The are four different employment types

There are 50 different job titles

The salaries range from 4000 to 30400000. The mean salary is 324000.

There are 17 different salary currencies

The salaries in USD range from 2859 to 600000. The mean salary is 101570.

There are 57 different employee residences

The remote ratios range from 0-100. The mean remote ratio is 70.92.

There are 50 different company locations.

The company size is either small,medium or large.

```
salary_data$work_year
```

```
salary data$experience level
```

```
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```

salary\_data\$employment\_type

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## [541] "FT" "FT"
## [556] "FT" "FT"
## [571] "FT" "FT"
## [586] "FT" "FT"
## [601] "FT" "FT"
```

```
salary_data$job_title
```

```
## [1] "Data Scientist"
## [2] "Machine Learning Scientist"
## [3] "Big Data Engineer"
## [4] "Product Data Analyst"
## [5] "Machine Learning Engineer"
## [6] "Data Analyst"
## [7] "Lead Data Scientist"
## [8] "Data Scientist"
## [9] "Business Data Analyst"
## [10] "Lead Data Engineer"
## [11] "Data Scientist"
## [12] "Data Scientist"
## [13] "Data Scientist"
## [14] "Lead Data Analyst"
## [15] "Data Analyst"
## [16] "Data Analyst"
## [17] "Data Engineer"
## [18] "Big Data Engineer"
## [19] "Data Science Consultant"
## [20] "Lead Data Engineer"
## [21] "Machine Learning Engineer"
## [22] "Product Data Analyst"
## [23] "Data Engineer"
## [24] "BI Data Analyst"
## [25] "Lead Data Scientist"
## [26] "Director of Data Science"
## [27] "Research Scientist"
## [28] "Data Engineer"
## [29] "Business Data Analyst"
## [30] "Machine Learning Manager"
## [31] "Data Engineering Manager"
## [32] "Big Data Engineer"
## [33] "Data Scientist"
## [34] "Research Scientist"
## [35] "Data Analyst"
## [36] "Data Engineer"
## [37] "Data Science Consultant"
## [38] "Machine Learning Engineer"
## [39] "Data Analyst"
## [40] "Machine Learning Engineer"
## [41] "Data Scientist"
## [42] "Data Engineering Manager"
## [43] "Machine Learning Infrastructure Engineer"
## [44] "Data Engineer"
## [45] "Data Engineer"
## [46] "ML Engineer"
## [47] "Data Scientist"
## [48] "Data Engineer"
## [49] "Data Scientist"
## [50] "Data Engineer"
## [51] "Data Analyst"
## [52] "Data Analyst"
```

```
## [53] "AI Scientist"
## [54] "Data Engineer"
## [55] "Computer Vision Engineer"
## [56] "Principal Data Scientist"
## [57] "Data Scientist"
## [58] "Data Scientist"
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## [60] "Data Scientist"
## [61] "Data Engineer"
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## [68] "Data Science Manager"
## [69] "Data Scientist"
## [70] "Data Scientist"
## [71] "Data Scientist"
## [72] "Data Scientist"
## [73] "Research Scientist"
## [74] "BI Data Analyst"
## [75] "Head of Data"
## [76] "Data Scientist"
## [77] "BI Data Analyst"
## [78] "3D Computer Vision Researcher"
## [79] "ML Engineer"
## [80] "Data Analyst"
## [81] "Data Analytics Engineer"
## [82] "Data Engineer"
## [83] "Applied Data Scientist"
## [84] "Machine Learning Engineer"
## [85] "Director of Data Science"
## [86] "Data Engineer"
## [87] "Data Analyst"
## [88] "Data Analytics Engineer"
## [89] "Lead Data Analyst"
## [90] "Data Analyst"
## [91] "Marketing Data Analyst"
## [92] "Data Science Consultant"
## [93] "Lead Data Analyst"
## [94] "Lead Data Engineer"
## [95] "Data Scientist"
## [96] "Cloud Data Engineer"
## [97] "AI Scientist"
## [98] "Financial Data Analyst"
## [99] "Computer Vision Software Engineer"
## [100] "Computer Vision Software Engineer"
## [101] "Data Analyst"
## [102] "Data Engineer"
## [103] "BI Data Analyst"
## [104] "Data Analyst"
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```
## [105] "Data Scientist"
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## [134] "Computer Vision Engineer"
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## [137] "ML Engineer"
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## [140] "Data Scientist"
## [141] "Data Analyst"
## [142] "Data Science Manager"
## [143] "Data Engineering Manager"
## [144] "Data Scientist"
## [145] "Data Engineer"
## [146] "Machine Learning Engineer"
## [147] "Research Scientist"
## [148] "Data Engineer"
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## [150] "Cloud Data Engineer"
## [151] "Director of Data Science"
## [152] "Data Scientist"
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## [154] "Data Scientist"
## [155] "Data Science Manager"
## [156] "Data Science Engineer"
```

```
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## [158] "Applied Machine Learning Scientist"
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## [161] "Head of Data"
## [162] "Head of Data Science"
## [163] "Data Engineer"
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## [187] "Data Analytics Engineer"
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## [207] "Machine Learning Engineer"
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```
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## [355] "Data Engineer"
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## [361] "Data Analyst"
## [362] "Data Analyst"
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## [364] "Data Analyst"
```

```
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## [366] "Data Scientist"
## [367] "Data Engineer"
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salary_data$salary
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## Project 1

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salary\_data\$salary\_currency

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## [391] 98158 120000 112900 90320 145000 105400 87932 117789 215300 158200
## [401] 209100 154600 115934 81666 175000 98158 58000 183600 52351 180000
## [411] 71982 45807 65949 49461 78526 58894 260000 60000 63900 160000
## [421] 112300 241000 159000 180000 80000 82900 100800 49461 140400 39263
## [431] 43966 32974 87932 76940 104702 91614 65949 87932 189650 164996
## [441] 43966 32974 98158 78526 215300 76940 209100 154600 180000 21983
## [451] 80000 78791 196979 120000 125000 37236 105000 87932 18442 31615
## [461] 58255 100000 54957 18442 162674 120000 144000 104890 100000 140000
## [471] 135000 50000 220000 140000 183228 91614 185100 220000 200000 120000
## [481] 120000 65000 324000 216000 210000 120000 230000 100000 100000 31875
## [491] 200000 75000 35590 78791 100000 153000 58035 165000 93427 52396
## [501] 62651 32974 40000 87425 115000 86703 75000 64849 120000 157000
## [511] 150000 70912 65000 71444 20000 48000 152500 68147 122346 380000

```

```
## [521] 69336 10000 20000 405000 135000 177000 78000 135000 100000 90320
## [531] 85000 75000 214000 192600 266400 213120 112900 155000 141300 102100
## [541] 115934 81666 206699 99100 130000 115000 110500 130000 99050 160000
## [551] 205300 140400 176000 144000 200100 160000 145000 70500 205300 140400
## [561] 205300 184700 175100 140250 116150 54000 170000 65438 80000 140000
## [571] 210000 140000 100000 69000 210000 140000 210000 150075 100000 25000
## [581] 126500 106260 220110 160080 105000 110925 45807 140000 99000 60000
## [591] 192564 144854 230000 150000 150260 109280 210000 170000 160000 130000
## [601] 67000 52000 154000 126000 129000 150000 200000
```

```
salary_data$employee_residence
```

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```

```
salary_data$remote_ratio
```

```
## [1] 0 0 50 0 50 100 100 50 100 50 0 0 0 100 100 50 100 100
## [19] 50 100 0 100 50 0 0 100 50 0 100 50 100 100 100 0 50 50
## [37] 100 50 100 100 100 50 0 100 50 100 100 100 100 100 50 0 100 50 100
## [55] 100 100 100 100 50 100 100 100 50 100 100 50 0 100 100 0 50 50
## [73] 50 100 100 50 100 50 100 100 100 100 50 100 100 100 50 100 100 100
## [91] 100 100 100 0 50 50 100 100 100 100 0 100 50 0 0 50 100 100
## [109] 100 100 50 100 100 100 100 100 100 100 50 100 100 100 0 50 100
## [127] 50 0 100 50 50 50 100 100 0 100 50 50 0 100 100 0 0 100
## [145] 100 50 50 100 100 100 0 100 100 100 100 50 100 50 100 100 50 0
## [163] 50 50 50 100 100 0 50 100 100 100 100 50 100 0 100 50 100
## [181] 0 50 0 50 50 100 100 100 50 50 100 50 0 100 50 50 100 100
## [199] 50 100 50 100 100 100 100 0 100 0 0 0 50 50 50 0 50 100
## [217] 50 50 100 100 100 50 0 50 100 100 100 50 0 100 100 100 100 100
## [235] 100 0 100 100 0 50 100 100 100 100 50 50 0 50 100 50 100
## [253] 100 100 100 50 100 100 50 0 50 50 100 0 100 50 0 0 100 50
## [271] 100 0 0 100 50 100 50 100 50 100 100 0 100 100 50 50 100 50
## [289] 50 100 100 100 0 0 100 100 100 100 100 0 0 100 100 100 0
## [307] 0 0 0 100 100 0 0 0 0 100 100 100 100 0 0 0 0 0 0
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## [343] 100 100 100 100 0 0 0 100 100 100 100 100 0 0 0 100 100 100
## [361] 100 100 100 100 0 100 0 0 100 100 100 0 0 0 0 100 0 100
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## [397] 100 0 100 100 100 100 0 0 100 0 0 100 100 100 0 0 0 100 100
## [415] 100 100 100 100 0 100 100 100 100 0 0 0 100 100 0 100 100 100
## [433] 100 100 100 100 100 0 0 100 100 100 100 0 100 100 100 100 100
## [451] 100 100 50 100 0 50 100 0 100 100 50 50 50 100 100 100 50 100
## [469] 100 100 100 100 100 100 0 0 100 100 100 100 100 100 100 100 100
## [487] 100 50 100 100 100 100 100 100 100 50 100 100 50 100 100 100 100
## [505] 100 50 100 0 100 100 100 50 100 100 0 100 100 100 0 100 100 100
## [523] 100 100 100 100 100 100 100 0 0 100 100 100 100 100 100 100 0 0
## [541] 100 100 0 0 100 100 100 100 100 100 0 0 100 100 100 100 100 0
## [559] 0 0 0 0 100 100 100 0 100 0 100 100 100 100 100 100 100 100
## [577] 100 100 100 100 100 100 100 100 100 100 0 100 0 100 100 100 100 100
## [595] 100 100 100 100 100 100 0 0 100 100 0 100 100 100 100 100 100
```

salary\_data\$company\_location

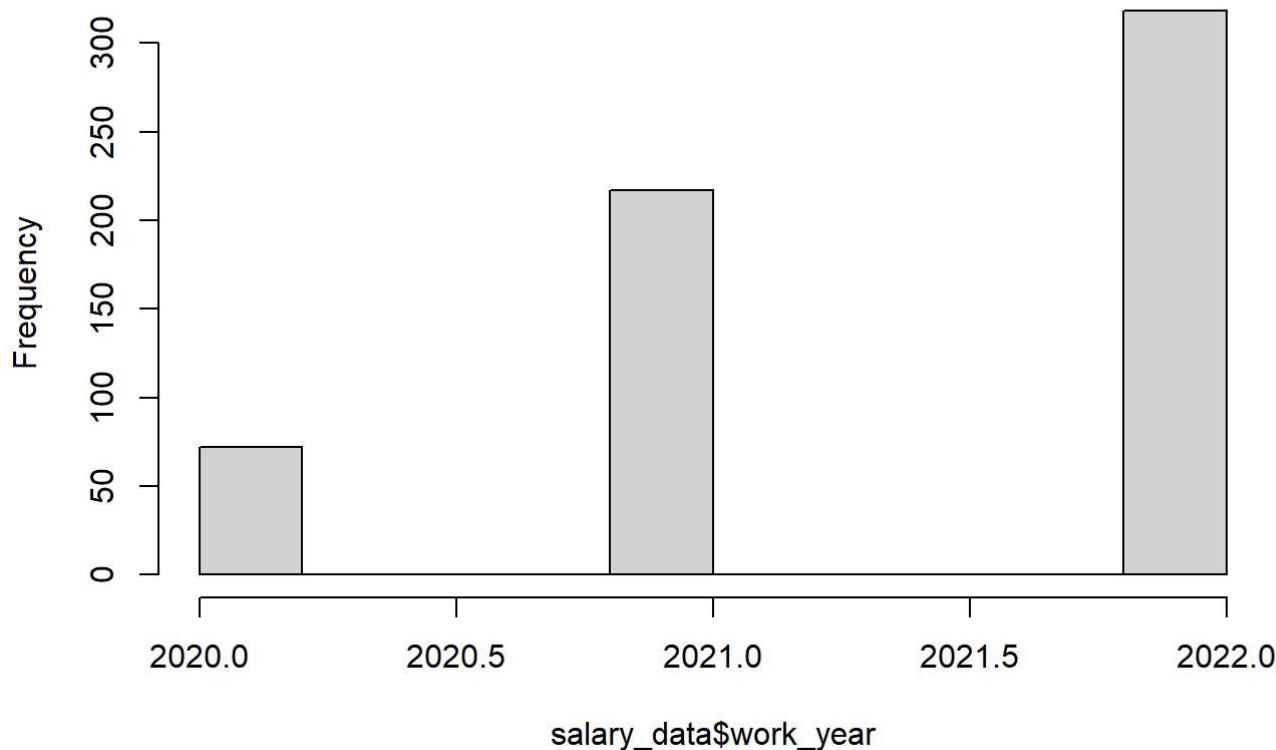
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salary\_data\$company\_size

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## [559] "M" "M"
## [577] "M" "M"
## [595] "M" "L"
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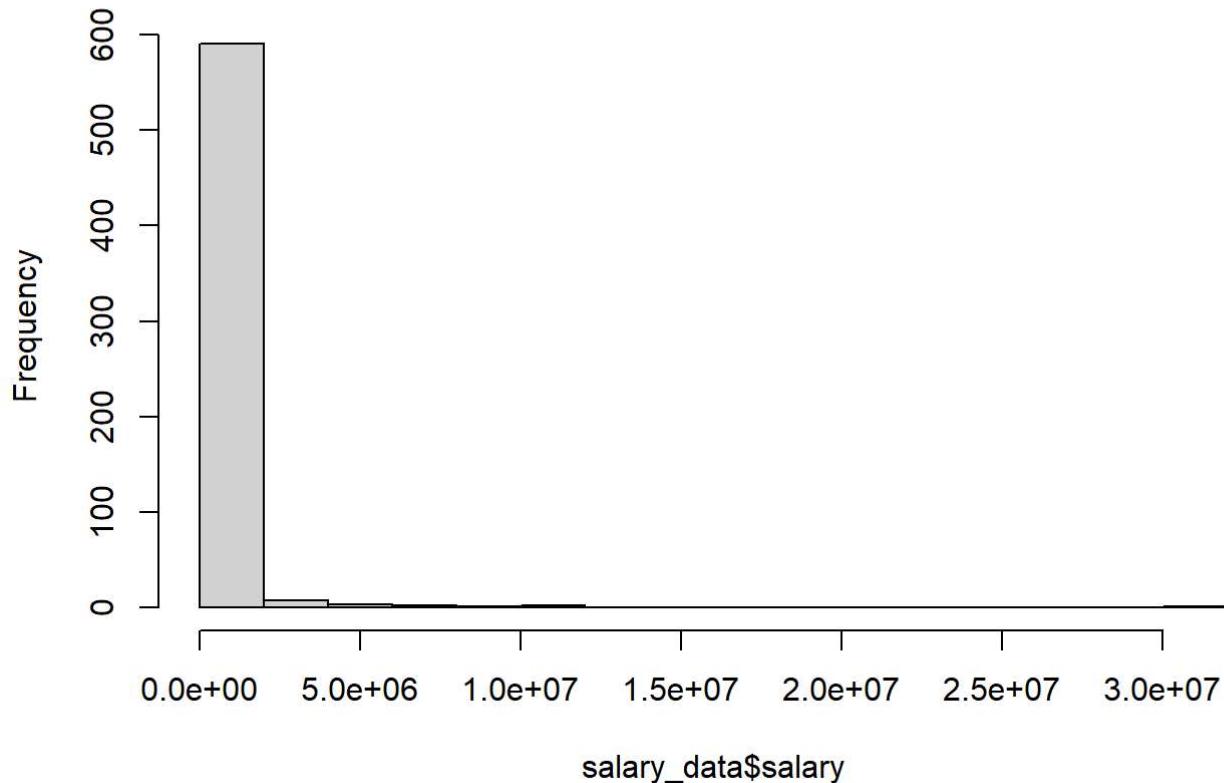
```
hist(salary_data$work_year)
```

### Histogram of salary\_data\$work\_year



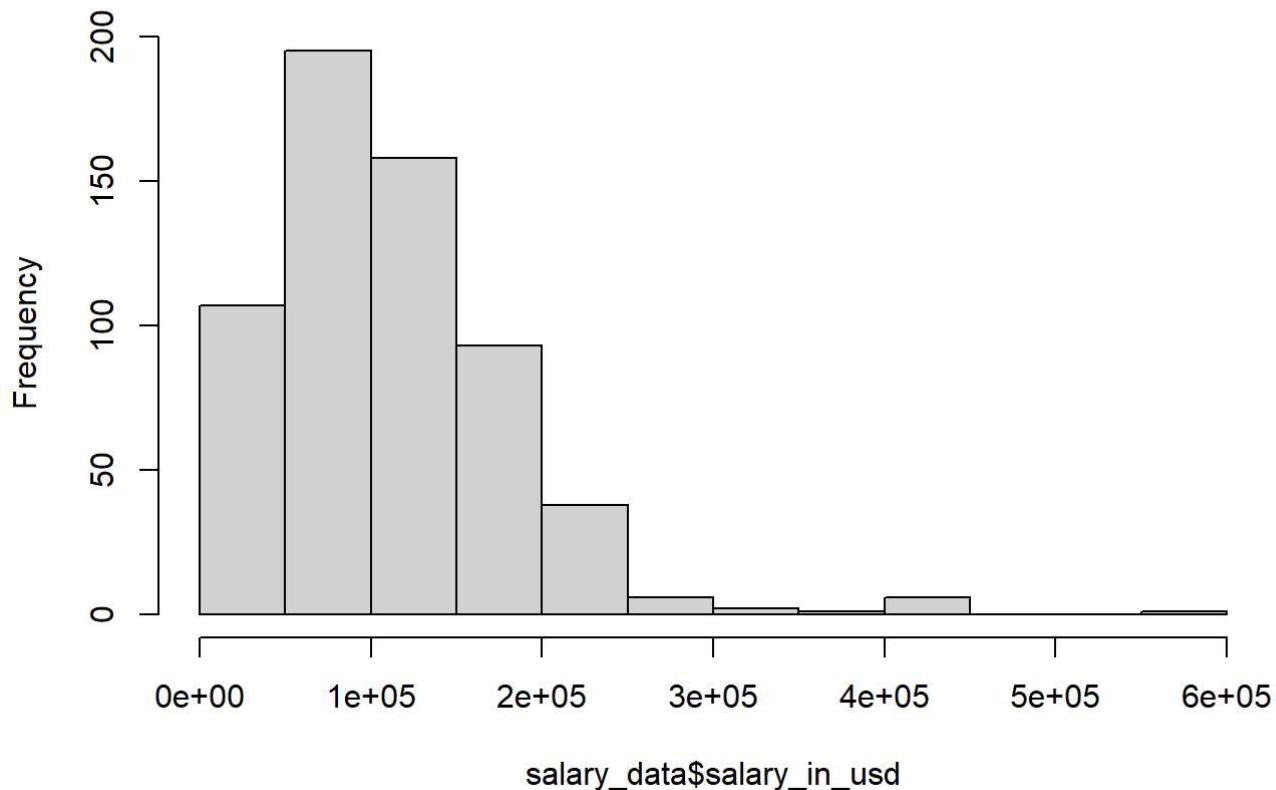
```
hist(salary_data$salary)
```

### Histogram of salary\_data\$salary



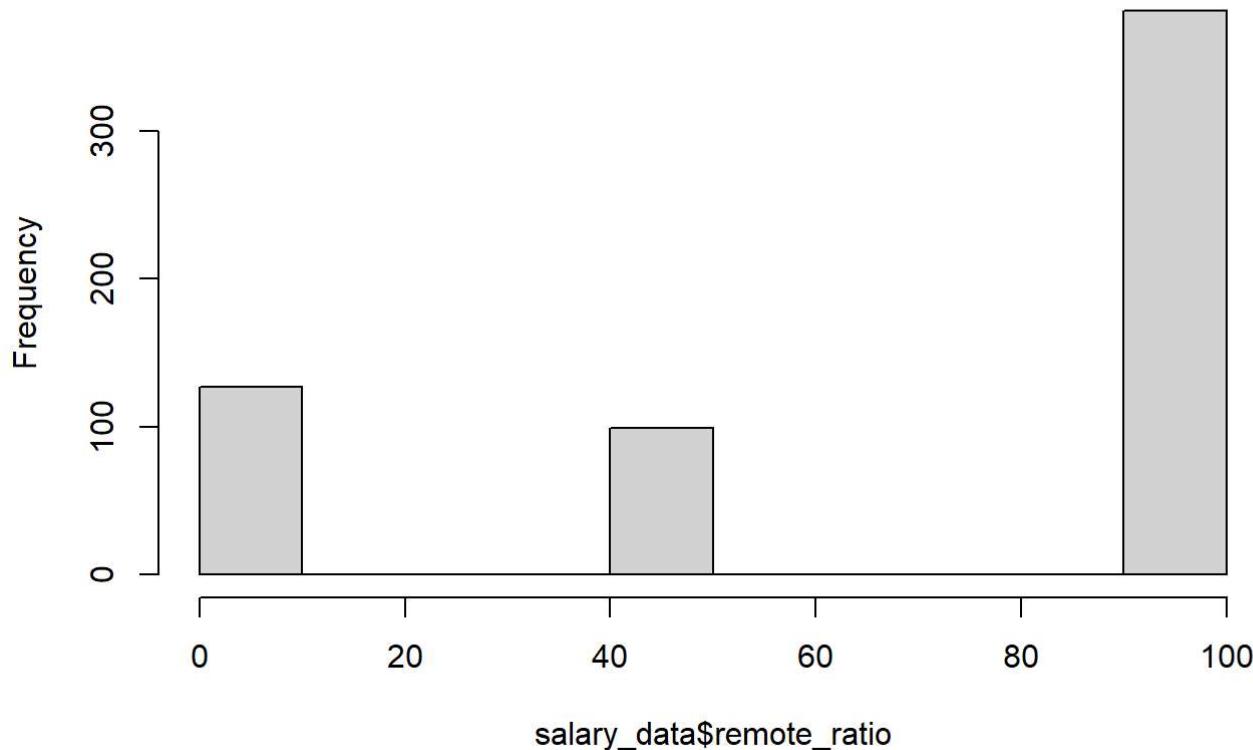
```
hist(salary_data$salary_in_usd)
```

### Histogram of salary\_data\$salary\_in\_usd



```
hist(salary_data$remote_ratio)
```

## Histogram of salary\_data\$remote\_ratio



```
salary_data %>% group_by(experience_level) %>% summarize(variable_count=n())
```

```
## # A tibble: 4 × 2
##   experience_level variable_count
##   <chr>                  <int>
## 1 EN                      88
## 2 EX                      26
## 3 MI                     213
## 4 SE                     280
```

```
salary_data %>% group_by(employment_type) %>% summarize(variable_count=n())
```

```
## # A tibble: 4 × 2
##   employment_type variable_count
##   <chr>                  <int>
## 1 CT                      5
## 2 FL                      4
## 3 FT                     588
## 4 PT                     10
```

```
salary_data %>% group_by(job_title) %>% summarize(variable_count=n())
```

```
## # A tibble: 50 × 2
##   job_title           variable_count
##   <chr>                  <int>
## 1 3D Computer Vision Researcher      1
## 2 AI Scientist                      7
## 3 Analytics Engineer                 4
## 4 Applied Data Scientist              5
## 5 Applied Machine Learning Scientist 4
## 6 BI Data Analyst                   6
## 7 Big Data Architect                 1
## 8 Big Data Engineer                  8
## 9 Business Data Analyst              5
## 10 Cloud Data Engineer                2
## # i 40 more rows
```

```
salary_data %>% group_by(salary_currency) %>% summarize(variable_count=n())
```

```
## # A tibble: 17 × 2
##   salary_currency variable_count
##   <chr>                  <int>
## 1 AUD                     2
## 2 BRL                     2
## 3 CAD                    18
## 4 CHF                     1
## 5 CLP                     1
## 6 CNY                     2
## 7 DKK                     2
## 8 EUR                    95
## 9 GBP                    44
## 10 HUF                    2
## 11 INR                    27
## 12 JPY                     3
## 13 MXN                     2
## 14 PLN                     3
## 15 SGD                     2
## 16 TRY                     3
## 17 USD                   398
```

```
salary_data %>% group_by(employee_residence) %>% summarize(variable_count=n())
```

```
## # A tibble: 57 × 2
##   employee_residence variable_count
##   <chr>                  <int>
## 1 AE                      3
## 2 AR                      1
## 3 AT                      3
## 4 AU                      3
## 5 BE                      2
## 6 BG                      1
## 7 BO                      1
## 8 BR                      6
## 9 CA                     29
## 10 CH                     1
## # i 47 more rows
```

```
salary_data %>% group_by(company_location) %>% summarise(variable_count=n())
```

```
## # A tibble: 50 × 2
##   company_location variable_count
##   <chr>                  <int>
## 1 AE                      3
## 2 AS                      1
## 3 AT                      4
## 4 AU                      3
## 5 BE                      2
## 6 BR                      3
## 7 CA                     30
## 8 CH                      2
## 9 CL                      1
## 10 CN                     2
## # i 40 more rows
```

```
salary_data %>% group_by(company_size) %>% summarise(variable_count=n())
```

```
## # A tibble: 3 × 2
##   company_size variable_count
##   <chr>                  <int>
## 1 L                      198
## 2 M                      326
## 3 S                      83
```

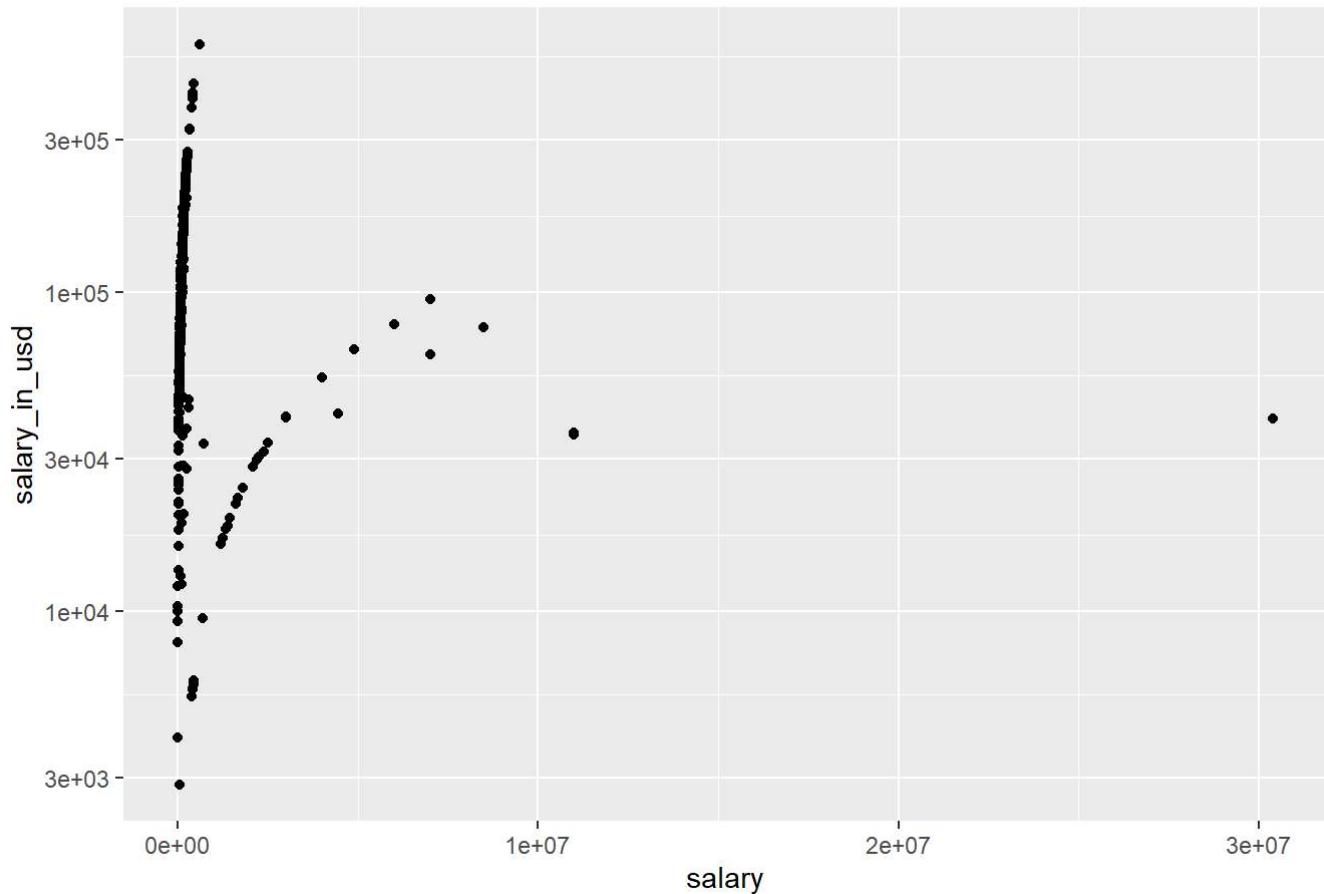
```
tapply(salary_data$salary,salary_data$salary_in_usd,FUN = "mean")
```

##	2859	4000	5409	5679	5707	5882	6072	8000
##	58000	4000	400000	420000	423000	435000	450000	8000
##	9272	9466	10000	10354	12000	12103	12901	13400
##	9272	700000	10000	8760	12000	108000	69600	13400
##	15966	16228	16904	18000	18053	18442	18907	19609
##	14000	1200000	1250000	18000	1335000	1400000	102000	1450000
##	20000	20171	21637	21669	21844	21983	22611	24000
##	20000	180000	1600000	19000	21844	20000	1672000	24000
##	24342	24823	25000	25532	26005	28016	28369	28399
##	1799997	21000	25000	21600	22000	250000	24000	2100000
##	28476	28609	29751	30428	31615	31875	32974	33511
##	110000	180000	2200000	2250000	2400000	29000	30000	720000
##	33808	35590	35735	36259	36643	37236	37300	37825
##	2500000	150000	11000000	11000000	31000	240000	28500	32000
##	38400	38776	39263	39916	40000	40038	40189	40481
##	38400	34000	30000	35000	40000	30400000	34000	3000000
##	40570	41689	42000	42197	43331	43966	45391	45618
##	3000000	4450000	42000	37000	299000	40000	38400	40000
##	45760	45807	45896	46597	46759	46809	47282	47899
##	45760	35000	30000	180000	41000	39600	40000	42000
##	48000	49268	49461	49646	50000	50180	51064	51321
##	48000	43200	45000	42000	50000	44000	43200	45000
##	51519	52000	52351	52396	53192	54000	54094	54238
##	37456	52000	40000	66500	45000	54000	4000000	68000
##	54742	54957	55000	56000	56256	56738	58000	58035
##	48000	50000	55000	56000	40900	48000	58000	52800
##	58255	58894	59102	59303	60000	60757	61300	61467
##	53000	45000	50000	51999	60000	51400	61300	52000
##	61896	62000	62649	62651	62726	63711	63810	63831
##	45000	62000	53000	57000	55000	7000000	80000	54000
##	63900	64849	65000	65013	65438	65949	66022	66265
##	63900	59000	65000	55000	50000	60000	48000	4900000
##	67000	68147	68428	69000	69336	69741	69999	70000
##	67000	62000	60000	69000	88000	59000	69999	70000
##	70139	70500	70912	71444	71786	71982	72000	72212
##	61500	70500	90000	65000	90000	55000	72000	52500
##	72500	73000	74000	74130	75000	75774	76833	76940
##	72500	73000	74000	65000	75000	95000	65000	70000
##	76958	77364	77684	78000	78526	78791	79039	79197
##	60000	8500000	65720	78000	60000	100000	6000000	67000
##	79833	80000	81000	81666	82500	82528	82744	82900
##	70000	80000	81000	81666	82500	60000	70000	82900
##	84900	85000	86703	87000	87425	87738	87932	88654
##	84900	85000	120000	87000	121000	110000	80000	75000
##	89294	90000	90320	90700	90734	91000	91237	91614
##	120000	90000	90320	90700	76760	91000	80000	70000
##	93000	93150	93427	93700	94564	94665	95550	95746
##	93000	93150	85000	93700	80000	7000000	95550	81000
##	96113	96282	98000	98158	99000	99050	99100	99360
##	120500	70000	98000	75000	99000	99050	99100	99360
##	99703	100000	100800	101570	102100	102839	103000	103160
##	125000	100000	100800	101570	102100	87000	103000	75000

##	103691	104702	104890	105000	105400	106000	106260	108800
##	130000	80000	104890	105000	105400	106000	106260	108800
##	109000	109024	109280	110000	110037	110500	110925	111775
##	109000	85000	109280	110000	80000	110500	110925	111775
##	112000	112300	112872	112900	113000	113476	114047	115000
##	112000	112300	88000	112900	113000	82500	100000	115000
##	115500	115934	116000	116150	116914	117104	117789	118000
##	115500	115934	116000	116150	85000	157000	90000	118000
##	118187	119059	120000	120160	120600	122346	123000	124190
##	150000	160000	120000	120160	120600	115000	123000	124190
##	124333	125000	126000	126500	127221	128875	129000	130000
##	95000	125000	126000	126500	159500	128875	129000	130000
##	130026	130800	132000	132320	135000	136000	136600	136620
##	110000	130800	132000	132320	135000	136000	136600	136620
##	136994	137141	138000	138350	138600	140000	140250	140400
##	136994	137141	138000	138350	138600	140000	140250	140400
##	141300	141846	144000	144854	145000	146000	147000	147800
##	141300	120000	144000	144854	145000	146000	147000	147800
##	148261	150000	150075	150260	151000	152000	152500	153000
##	130000	150000	150075	150260	151000	152000	152500	153000
##	153667	154000	154600	155000	156600	157000	158200	159000
##	130000	154000	154600	155000	156600	157000	158200	159000
##	160000	160080	161342	162674	164000	164996	165000	165220
##	160000	160080	161342	148000	164000	164996	165000	165220
##	165400	167000	167875	168000	170000	173762	174000	175000
##	165400	167000	167875	168000	170000	147000	174000	175000
##	175100	176000	177000	180000	181940	183228	183600	184700
##	175100	176000	177000	180000	181940	140000	183600	184700
##	185000	185100	187442	188000	189650	190000	190200	192400
##	185000	185100	235000	188000	189650	190000	190200	192400
##	192564	192600	195000	196979	200000	200100	205300	206699
##	192564	192600	195000	250000	200000	200100	205300	206699
##	208775	209100	210000	211500	213120	214000	215300	216000
##	208775	209100	210000	211500	213120	214000	215300	216000
##	220000	220110	224000	225000	230000	235000	240000	241000
##	220000	220110	224000	225000	230000	235000	240000	241000
##	242000	243900	250000	256000	260000	266400	270000	276000
##	242000	243900	250000	256000	260000	266400	270000	276000
##	324000	325000	380000	405000	412000	416000	423000	450000
##	324000	325000	380000	405000	412000	416000	423000	450000
##	600000							
##	600000							

```
ggplot(salary_data,aes(x=salary,y=salary_in_usd))+geom_point()+scale_y_continuous(trans='log10')  
+ggtitle("Salaries Internationally vs USA")
```

## Salaries Internationally vs USA



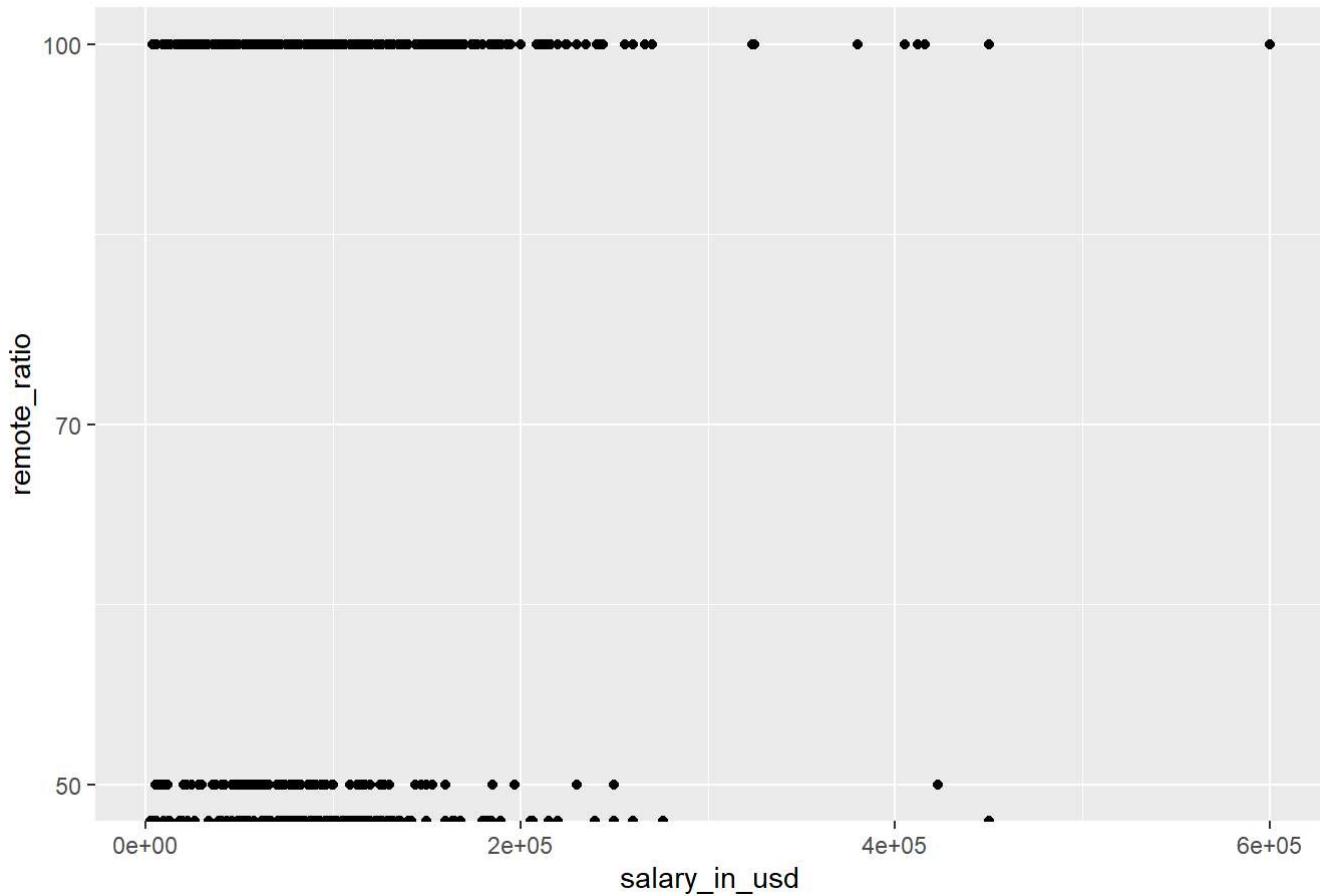
```
tapply(salary_data$salary_in_usd,salary_data$remote_ratio,FUN="mean")
```

```
##      0      50     100
## 106354.62 80823.03 122457.45
```

```
ggplot(salary_data,aes(x=salary_in_usd,y=remote_ratio))+geom_point()+scale_y_continuous(trans='log10')+ggtitle("Remote vs. In Person Salaries")
```

```
## Warning in scale_y_continuous(trans = "log10"): log-10 transformation
## introduced infinite values.
```

## Remote vs. In Person Salaries



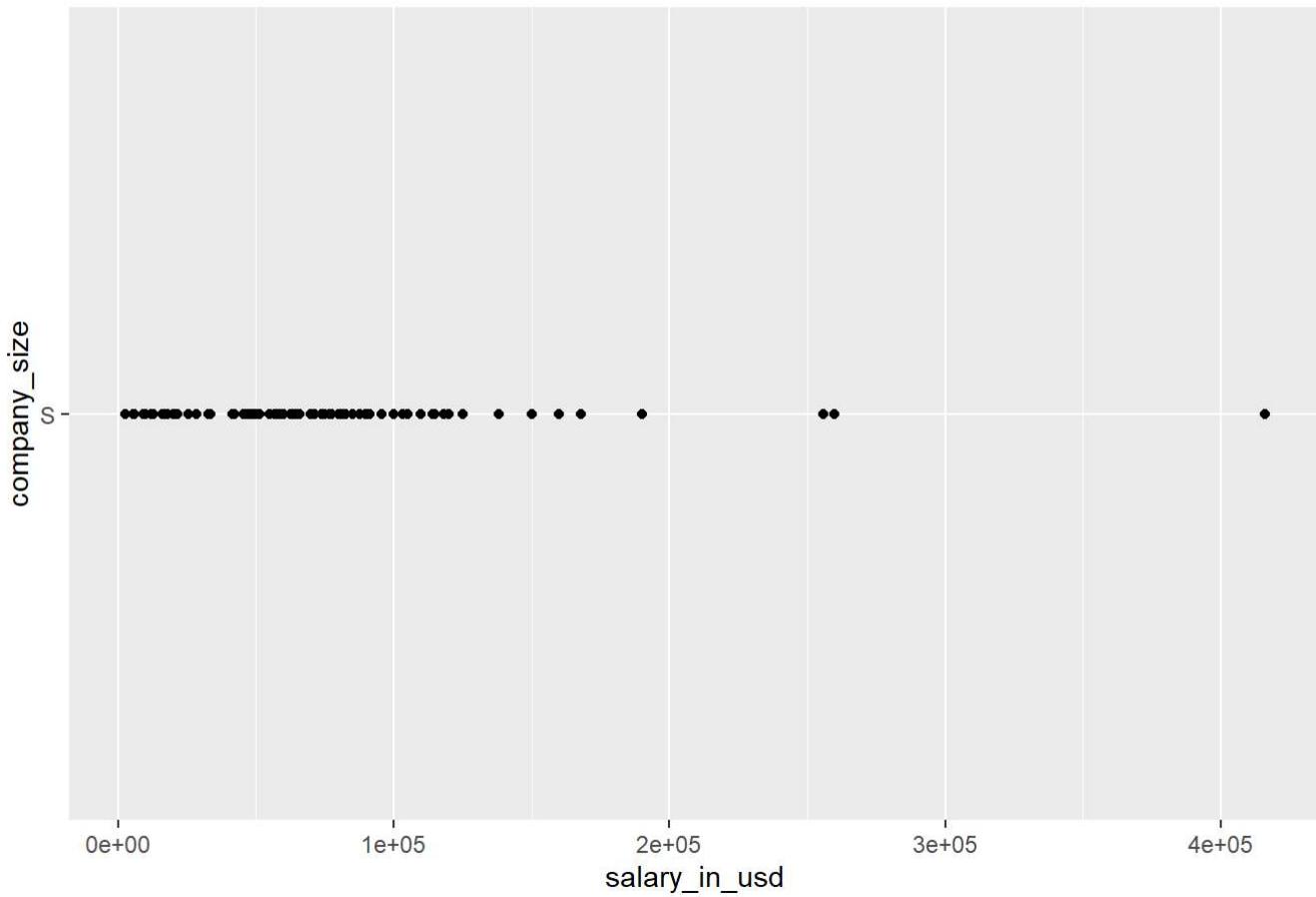
```
small_only = salary_data %>% group_by(salary_in_usd) %>% filter(company_size=="S")
```

```
tapply(small_only$salary_in_usd, small_only$company_size, FUN="mean")
```

```
##      S  
## 77632.67
```

```
ggplot(small_only,aes(x=salary_in_usd,y=company_size))+geom_point()+ggtitle("Salaries of Data Scientists in Small Companies")
```

## Salaries of Data Scientists in Small Companies



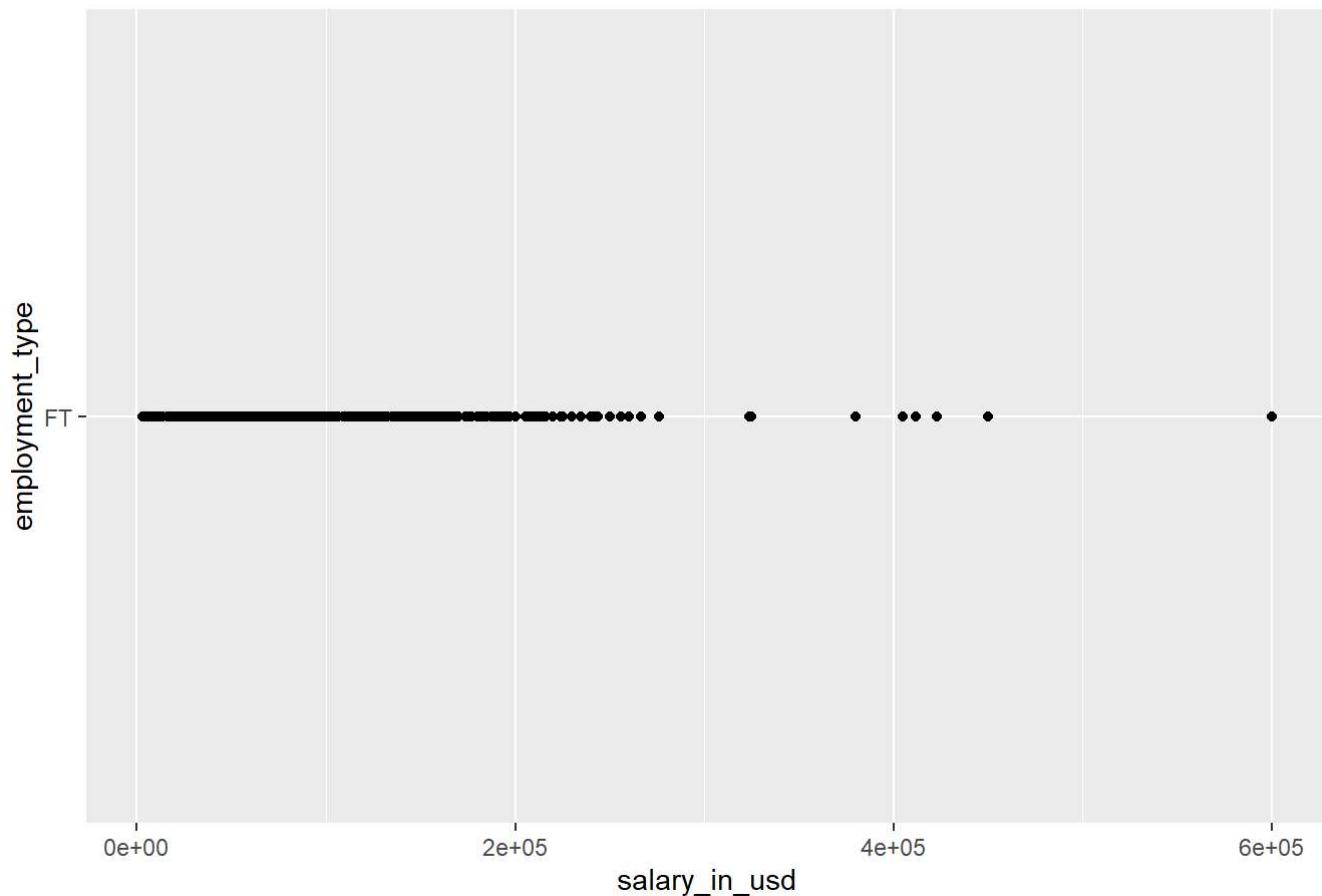
```
full_time_only = salary_data %>% group_by(salary_in_usd) %>% filter(employment_type=="FT")
```

```
tapply(full_time_only$salary_in_usd,full_time_only$employment_type,FUN="mean")
```

```
##      FT  
## 113468.1
```

```
ggplot(full_time_only,aes(x=salary_in_usd,y=employment_type))+geom_point()+ggtitle("Salaries of Full Time Data Scientists")
```

## Salaries of Full Time Data Scientists



Salaries in the USA are generally greater than in other parts of the world. Working remotely generally leads to a higher salary. Small companies generally pay less than larger companies. The average salary for a data scientist working at a small company is \$77632.67. The average salary for a full time data scientist is 113468.10. It is probably best to pay the position around \$100,000. The position could start with a 50% remote ratio.