

```

Q1
Unnamed: 0  work_year experience_level employment_type ... employee_residence remote_ratio company_location company_size
0          0      2020             MI             FT ...                DE              0              DE              L
1          1      2020             SE             FT ...                JP              0              JP              S
2          2      2020             SE             FT ...                GB             50              GB              M
3          3      2020             MI             FT ...                HN              0              HN              S
4          4      2020             SE             FT ...                US             50              US              L
5          5      2020             EN             FT ...                US            100              US              L
6          6      2020             SE             FT ...                US            100              US              S
7          7      2020             MI             FT ...                HU             50              HU              L
8          8      2020             MI             FT ...                US            100              US              L
9          9      2020             SE             FT ...                NZ             50              NZ              S
10         10      2020             EN             FT ...                FR              0              FR              S
11         11      2020             MI             FT ...                IN              0              IN              L
12         12      2020             EN             FT ...                FR              0              FR              M
13         13      2020             MI             FT ...                US            100              US              L
14         14      2020             MI             FT ...                US            100              US              L
15         15      2020             MI             FT ...                PK             50              PK              L
16         16      2020             EN             FT ...                JP            100              JP              S
17         17      2020             SE             FT ...                PL            100              GB              S
18         18      2020             EN             FT ...                IN             50              IN              M
19         19      2020             MI             FT ...                PT            100              US              M
20         20      2020             MI             FT ...                CN              0              CN              M
21         21      2020             MI             FT ...                IN            100              IN              L
22         22      2020             SE             FT ...                GR             50              GR              L

```

```

Q2
work_year
2020      95813.000000
2021      99853.792627
2022     124522.006289
Name: salary_in_usd, dtype: float64

```

```

Q3
The highest average salary year
work_year
2022     124522.006289
Name: salary_in_usd, dtype: float64

The lowest average salary year
work_year
2020      95813.0
Name: salary_in_usd, dtype: float64

```

```

Q4
experience_level  job_title
EN               AI Scientist      21987.250000
                Applied Data Scientist 110037.000000
                Applied Machine Learning Scientist 31875.000000
                BI Data Analyst      32136.000000
                Big Data Engineer    30703.333333
                Business Data Analyst 79551.000000
                Computer Vision Engineer 54536.333333
                Computer Vision Software Engineer 110000.000000
                Data Analyst          53960.666667
                Data Analytics Engineer 20000.000000
                Data Engineer         58933.500000
                Data Science Consultant 62640.800000
                Data Scientist        55330.909091
                Financial Data Analyst 100000.000000
                ML Engineer           18974.500000
                Machine Learning Developer 100000.000000
                Machine Learning Engineer 86996.333333
                Machine Learning Scientist 225000.000000
                Research Scientist     86132.000000

```

EX	Analytics Engineer	155000.000000
	BI Data Analyst	150000.000000
	Data Analyst	120000.000000
	Data Engineer	245500.000000
	Data Engineering Manager	79833.000000
	Data Science Consultant	69741.000000
	Director of Data Science	199586.333333
	Head of Data	232500.000000
	Head of Data Science	158958.333333
	Head of Machine Learning	79039.000000
	Lead Data Engineer	118187.000000
	Principal Data Engineer	600000.000000
	Principal Data Scientist	416000.000000
MI	3D Computer Vision Researcher	5409.000000
	AI Scientist	160000.000000
	Applied Data Scientist	105619.000000
	Applied Machine Learning Scientist	178800.000000
	BI Data Analyst	78086.333333
	Big Data Engineer	33537.000000
	Business Data Analyst	74784.666667
	Cloud Data Engineer	89294.000000
	Computer Vision Software Engineer	95746.000000
	Data Analyst	71699.206897
	Data Analytics Engineer	110000.000000
	Data Architect	166666.666667
	Data Engineer	85985.660377
	Data Engineering Manager	59303.000000
	Data Science Consultant	103000.000000
	Data Science Engineer	40189.000000
	Data Science Manager	200000.000000
	Data Scientist	82039.133333
	ETL Developer	54957.000000
	Financial Data Analyst	450000.000000
	Head of Data	32974.000000
	Head of Data Science	110000.000000
	Lead Data Analyst	53304.500000
	Lead Data Engineer	56000.000000
	Lead Data Scientist	115000.000000
	ML Engineer	137025.000000
	Machine Learning Developer	78791.000000
	Machine Learning Engineer	74466.583333
	Machine Learning Infrastructure Engineer	54217.500000
	Machine Learning Scientist	109325.000000
	NLP Engineer	37236.000000
	Principal Data Analyst	75000.000000
	Principal Data Scientist	151000.000000
	Product Data Analyst	13036.000000
	Research Scientist	136498.142857

SE	AI Scientist	55000.000000
	Analytics Engineer	195000.000000
	Applied Data Scientist	278500.000000
	Big Data Architect	99703.000000
	Big Data Engineer	111535.500000
	Cloud Data Engineer	160000.000000
	Computer Vision Engineer	34302.333333
	Data Analyst	111922.629630
	Data Analytics Engineer	64598.500000
	Data Analytics Lead	405000.000000
	Data Analytics Manager	127134.285714
	Data Architect	182076.625000
	Data Engineer	137035.841270
	Data Engineering Manager	159000.000000
	Data Science Engineer	93610.500000
	Data Science Manager	149994.200000
	Data Scientist	152971.016393
	Data Specialist	165000.000000
	Director of Data Engineering	156738.000000
	Director of Data Science	168000.000000
	Finance Data Analyst	61896.000000
	Head of Data	151419.500000
	Lead Data Analyst	170000.000000
	Lead Data Engineer	166040.000000
	Lead Data Scientist	115285.000000
	Lead Machine Learning Engineer	87932.000000
	ML Engineer	256000.000000
	Machine Learning Developer	78791.000000
	Machine Learning Engineer	131176.000000
	Machine Learning Infrastructure Engineer	195000.000000
	Machine Learning Manager	117104.000000
	Machine Learning Scientist	201666.666667
	Marketing Data Analyst	88654.000000
	Principal Data Analyst	170000.000000
	Principal Data Engineer	192500.000000
	Principal Data Scientist	187939.400000
	Research Scientist	88859.400000
	Staff Data Scientist	105000.000000



Q5

Maxium:

job\_title

3D Computer Vision Researcher	5409
AI Scientist	200000
Analytics Engineer	205300
Applied Data Scientist	380000
Applied Machine Learning Scientist	423000
BI Data Analyst	150000
Big Data Architect	99703
Big Data Engineer	114047
Business Data Analyst	135000
Cloud Data Engineer	160000
Computer Vision Engineer	125000
Computer Vision Software Engineer	150000
Data Analyst	200000
Data Analytics Engineer	110000
Data Analytics Lead	405000
Data Analytics Manager	150260
Data Architect	266400
Data Engineer	324000
Data Engineering Manager	174000
Data Science Consultant	103000
Data Science Engineer	127221
Data Science Manager	241000
Data Scientist	412000
Data Specialist	165000
Director of Data Engineering	200000
Director of Data Science	325000
ETL Developer	54957
Finance Data Analyst	61896
Financial Data Analyst	450000
Head of Data	235000
Head of Data Science	224000
Head of Machine Learning	79039
Lead Data Analyst	170000
Lead Data Engineer	276000
Lead Data Scientist	190000
Lead Machine Learning Engineer	87932
ML Engineer	270000
Machine Learning Developer	100000
Machine Learning Engineer	250000
Machine Learning Infrastructure Engineer	195000
Machine Learning Manager	117104
Machine Learning Scientist	260000
Marketing Data Analyst	88654
NLP Engineer	37236

Head of Machine Learning	79039
Lead Data Analyst	19609
Lead Data Engineer	56000
Lead Data Scientist	40570
Lead Machine Learning Engineer	87932
ML Engineer	15966
Machine Learning Developer	78791
Machine Learning Engineer	20000
Machine Learning Infrastructure Engineer	50180
Machine Learning Manager	117104
Machine Learning Scientist	12000
Marketing Data Analyst	88654
NLP Engineer	37236
Principal Data Analyst	75000
Principal Data Engineer	185000
Principal Data Scientist	148261
Product Data Analyst	6072
Research Scientist	42000
Staff Data Scientist	105000

Machine Learning Developer	100000
Machine Learning Engineer	250000
Machine Learning Infrastructure Engineer	195000
Machine Learning Manager	117104
Machine Learning Scientist	260000
Marketing Data Analyst	88654
NLP Engineer	37236
Principal Data Analyst	170000
Principal Data Engineer	600000
Principal Data Scientist	416000
Product Data Analyst	20000
Research Scientist	450000
Staff Data Scientist	105000
Name: salary_in_usd, dtype: int64	
Minium:	
job_title	
3D Computer Vision Researcher	5409
AI Scientist	12000
Analytics Engineer	135000
Applied Data Scientist	54238
Applied Machine Learning Scientist	31875
BI Data Analyst	9272
Big Data Architect	99703
Big Data Engineer	5882
Business Data Analyst	18442
Cloud Data Engineer	89294
Computer Vision Engineer	10000
Computer Vision Software Engineer	70000
Data Analyst	6072
Data Analytics Engineer	20000
Data Analytics Lead	405000
Data Analytics Manager	105400
Data Architect	90700
Data Engineer	4000
Data Engineering Manager	59303
Data Science Consultant	5707
Data Science Engineer	40189
Data Science Manager	54094
Data Scientist	2859
Data Specialist	165000
Director of Data Engineering	113476
Director of Data Science	130026
ETL Developer	54957
Finance Data Analyst	61896
Financial Data Analyst	100000
Head of Data	32974
Head of Data Science	85000



2022	Director of Data Engineering	156738.000000
	Director of Data Science	168707.800000
	Finance Data Analyst	61896.000000
	Financial Data Analyst	450000.000000
	Head of Data	189279.666667
	Head of Data Science	97500.000000
	Lead Data Analyst	94804.500000
	Lead Data Engineer	179720.000000
	Lead Data Scientist	40570.000000
	ML Engineer	166768.750000
	Machine Learning Developer	100000.000000
	Machine Learning Engineer	74611.222222
	Machine Learning Infrastructure Engineer	195000.000000
	Machine Learning Scientist	145500.000000
	Marketing Data Analyst	88654.000000
	Principal Data Analyst	170000.000000
	Principal Data Engineer	328333.333333
	Principal Data Scientist	239152.400000
	Research Scientist	83003.600000
	Staff Data Scientist	105000.000000
	AI Scientist	160000.000000
	Analytics Engineer	175000.000000
	Applied Data Scientist	238000.000000
	Applied Machine Learning Scientist	53437.500000
	Business Data Analyst	44677.000000
	Computer Vision Engineer	67500.000000
	Computer Vision Software Engineer	150000.000000
	Data Analyst	100550.739726
	Data Analytics Engineer	20000.000000
	Data Analytics Lead	405000.000000
	Data Analytics Manager	127485.000000
	Data Architect	182076.625000
	Data Engineer	126375.696629
	Data Science Engineer	60000.000000
	Data Science Manager	170196.600000
	Data Scientist	136172.090909
	Director of Data Science	196979.000000
	ETL Developer	54957.000000
	Financial Data Analyst	100000.000000
	Head of Data	116487.000000
	Head of Data Science	195937.500000
	Head of Machine Learning	79039.000000
	Lead Data Engineer	118187.000000
	Lead Machine Learning Engineer	87932.000000
	ML Engineer	21983.000000
	Machine Learning Developer	78791.000000
	Machine Learning Engineer	129451.944444

Q6

work_year	job_title	
2020	AI Scientist	45896.000000
	BI Data Analyst	98000.000000
	Big Data Engineer	97690.333333
	Business Data Analyst	117500.000000
	Computer Vision Engineer	60000.000000
	Data Analyst	45547.285714
	Data Engineer	88162.000000
	Data Engineering Manager	69568.000000
	Data Science Consultant	54353.500000
	Data Science Manager	190200.000000
	Data Scientist	85970.523810
	Director of Data Science	325000.000000
	Lead Data Analyst	87000.000000
	Lead Data Engineer	90500.000000
	Lead Data Scientist	152500.000000
	ML Engineer	15966.000000
	Machine Learning Engineer	125389.800000
	Machine Learning Infrastructure Engineer	50180.000000
	Machine Learning Manager	117104.000000
	Machine Learning Scientist	260000.000000
	Principal Data Scientist	148261.000000
	Product Data Analyst	13036.000000
	Research Scientist	246000.000000
2021	3D Computer Vision Researcher	5409.000000
	AI Scientist	24263.250000
	Applied Data Scientist	82137.500000
	Applied Machine Learning Scientist	230700.000000
	BI Data Analyst	70106.200000
	Big Data Architect	99703.000000
	Big Data Engineer	24544.200000
	Business Data Analyst	59102.000000
	Cloud Data Engineer	124647.000000
	Computer Vision Engineer	23838.666667
	Computer Vision Software Engineer	82873.000000
	Data Analyst	79505.411765
	Data Analytics Engineer	79732.333333
	Data Analytics Manager	126666.666667
	Data Architect	166666.666667
	Data Engineer	83202.531250
	Data Engineering Manager	159000.000000
	Data Science Consultant	75447.600000
	Data Science Engineer	83705.000000
	Data Science Manager	143126.500000
	Data Scientist	70671.733333
	Data Specialist	165000.000000



Machine Learning Infrastructure Engineer	58255.000000
Machine Learning Scientist	141766.666667
NLP Engineer	37236.000000
Principal Data Analyst	75000.000000
Principal Data Scientist	162674.000000
Research Scientist	105569.000000

Q7  
Highest chang job title  
28 Financial Data Analyst  
Name: job\_title, dtype: object

Lowest chang job title  
15 Data Analytics Manager  
Name: job\_title, dtype: object

Q8  
remote\_ratio  
0 106354.622047  
50 80823.030303  
100 122457.454068  
Name: salary\_in\_usd, dtype: float64  
There is/are: 3 type/s of ratio

Q9  
Highest Loaction:  
252 US  
Name: company\_location, dtype: object  
  
Lowest Location:  
176 MX  
Name: company\_location, dtype: object

Q10  
I would not like to change my resume right now