Unlocking Insights: Exploring Employee Salaries Across Industries

About Dataset

The dataset contains the following fields:

work_year: The year of employment. experience_level: The experience level of the employee (e.g., entry-level, mid-level, senior). employment_type: The type of employment (e.g., full-time, part-time, contract). job_title: The job title or position of the employee within the company. salary: The salary amount in the local currency. salary_currency: The currency in which the salary is denoted. salary_in_usd: The equivalent salary amount in USD (United States Dollars). employee_residence: The location of the employee's residence. remote_ratio: The percentage of remote work allowed for the position. company_location: The location of the company. company_size: The size of the company (e.g., small, medium, large).

```python
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import plotly.express as px

df=pd.read_csv('ds_salaries.csv')

df.head(5)
```

```
   Unnamed: 0  work_year experience_level employment_type  \
0           0       2020               MI              FT
1           1       2020               SE              FT
2           2       2020               SE              FT
3           3       2020               MI              FT
4           4       2020               SE              FT

                   job_title  salary salary_currency
salary_in_usd  \
0             Data Scientist   70000             EUR              79833

1  Machine Learning Scientist  260000             USD             260000

2           Big Data Engineer   85000             GBP             109024

3          Product Data Analyst  20000             USD              20000

4    Machine Learning Engineer  150000             USD             150000


  employee_residence  remote_ratio company_location company_size
```

```
0                DE              0              DE            L
1                JP              0              JP            S
2                GB             50              GB            M
3                HN              0              HN            S
4                US             50              US            L
```

df.describe()

```
        Unnamed: 0      work_year            salary    salary_in_usd
remote_ratio
count   607.000000     607.000000    6.070000e+02       607.000000
607.00000
mean    303.000000    2021.405272    3.240001e+05    112297.869852
70.92257
std     175.370085       0.692133    1.544357e+06     70957.259411
40.70913
min       0.000000    2020.000000    4.000000e+03      2859.000000
0.00000
25%     151.500000    2021.000000    7.000000e+04     62726.000000
50.00000
50%     303.000000    2022.000000    1.150000e+05    101570.000000
100.00000
75%     454.500000    2022.000000    1.650000e+05    150000.000000
100.00000
max     606.000000    2022.000000    3.040000e+07    600000.000000
100.00000
```

df.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 607 entries, 0 to 606
Data columns (total 12 columns):
 #   Column             Non-Null Count  Dtype
---  ------             --------------  -----
 0   Unnamed: 0         607 non-null    int64
 1   work_year          607 non-null    int64
 2   experience_level   607 non-null    object
 3   employment_type    607 non-null    object
 4   job_title          607 non-null    object
 5   salary             607 non-null    int64
 6   salary_currency    607 non-null    object
 7   salary_in_usd      607 non-null    int64
 8   employee_residence 607 non-null    object
 9   remote_ratio       607 non-null    int64
 10  company_location   607 non-null    object
 11  company_size       607 non-null    object
dtypes: int64(5), object(7)
memory usage: 57.0+ KB
```

df.isna()

```
     Unnamed: 0   work_year   experience_level   employment_type  \
job_title
0          False       False               False             False
False
1          False       False               False             False
False
2          False       False               False             False
False
3          False       False               False             False
False
4          False       False               False             False
False
..           ...         ...                 ...               ...     .
..
602        False       False               False             False
False
603        False       False               False             False
False
604        False       False               False             False
False
605        False       False               False             False
False
606        False       False               False             False
False

     salary   salary_currency   salary_in_usd   employee_residence  \
remote_ratio
0      False             False           False                False
False
1      False             False           False                False
False
2      False             False           False                False
False
3      False             False           False                False
False
4      False             False           False                False
False
..       ...               ...             ...                  ...
...
602    False             False           False                False
False
603    False             False           False                False
False
604    False             False           False                False
False
605    False             False           False                False
False
606    False             False           False                False
False
```

```
     company_location  company_size
0                False         False
1                False         False
2                False         False
3                False         False
4                False         False
..                 ...           ...
602              False         False
603              False         False
604              False         False
605              False         False
606              False         False

[607 rows x 12 columns]

df.isnull()

     Unnamed: 0  work_year  experience_level  employment_type
job_title  \
0         False      False             False             False
False
1         False      False             False             False
False
2         False      False             False             False
False
3         False      False             False             False
False
4         False      False             False             False
False
..          ...        ...               ...               ...       .
..
602       False      False             False             False
False
603       False      False             False             False
False
604       False      False             False             False
False
605       False      False             False             False
False
606       False      False             False             False
False

     salary  salary_currency  salary_in_usd  employee_residence
remote_ratio  \
0     False            False          False               False
False
1     False            False          False               False
False
2     False            False          False               False
```

```
False
3     False          False          False          False
False
4     False          False          False          False
False
..       ...            ...            ...            ...
...
602   False          False          False          False
False
603   False          False          False          False
False
604   False          False          False          False
False
605   False          False          False          False
False
606   False          False          False          False
False

     company_location  company_size
0               False         False
1               False         False
2               False         False
3               False         False
4               False         False
..                ...           ...
602             False         False
603             False         False
604             False         False
605             False         False
606             False         False

[607 rows x 12 columns]

df.isnull().sum()

Unnamed: 0           0
work_year            0
experience_level     0
employment_type      0
job_title            0
salary               0
salary_currency      0
salary_in_usd        0
employee_residence   0
remote_ratio         0
company_location     0
company_size         0
dtype: int64

df.clip()
```

```
     Unnamed: 0  work_year experience_level employment_type  \
0              0       2020               MI              FT
1              1       2020               SE              FT
2              2       2020               SE              FT
3              3       2020               MI              FT
4              4       2020               SE              FT
..           ...        ...              ...             ...
602          602       2022               SE              FT
603          603       2022               SE              FT
604          604       2022               SE              FT
605          605       2022               SE              FT
606          606       2022               MI              FT

                        job_title  salary salary_currency  salary_in_usd
\
0                   Data Scientist   70000             EUR          79833

1        Machine Learning Scientist  260000             USD         260000

2                 Big Data Engineer   85000             GBP         109024

3               Product Data Analyst   20000             USD          20000

4           Machine Learning Engineer  150000             USD         150000

..                           ...     ...             ...            ...

602                  Data Engineer  154000             USD         154000

603                  Data Engineer  126000             USD         126000

604                   Data Analyst  129000             USD         129000

605                   Data Analyst  150000             USD         150000

606                   AI Scientist  200000             USD         200000


     employee_residence  remote_ratio company_location company_size
0                    DE             0               DE            L
1                    JP             0               JP            S
2                    GB            50               GB            M
3                    HN             0               HN            S
4                    US            50               US            L
..                  ...           ...              ...          ...
602                  US           100               US            M
603                  US           100               US            M
604                  US             0               US            M
605                  US           100               US            M
606                  IN           100               US            L
```

```
[607 rows x 12 columns]
```

```
df.shape
```

```
(607, 12)
```

```
df.columns
```

```
Index(['Unnamed: 0', 'work_year', 'experience_level',
'employment_type',
       'job_title', 'salary', 'salary_currency', 'salary_in_usd',
       'employee_residence', 'remote_ratio', 'company_location',
       'company_size'],
      dtype='object')
```

```
df.isna().any()
```

```
Unnamed: 0            False
work_year            False
experience_level     False
employment_type      False
job_title            False
salary               False
salary_currency      False
salary_in_usd        False
employee_residence   False
remote_ratio         False
company_location     False
company_size         False
dtype: bool
```

```
df.duplicated()
```

```
0        False
1        False
2        False
3        False
4        False
         ...
602      False
603      False
604      False
605      False
606      False
Length: 607, dtype: bool
```

```
# Set 'Unnamed: 0' as the index column
df.set_index('Unnamed: 0', inplace=True)

# Rename the index column to 'ID'
```

```
df.index.name = 'number'

# Display the DataFrame with the renamed index column
print(df)
```

```
        work_year experience_level employment_type  \
number
0            2020               MI              FT
1            2020               SE              FT
2            2020               SE              FT
3            2020               MI              FT
4            2020               SE              FT
...           ...              ...             ...
602          2022               SE              FT
603          2022               SE              FT
604          2022               SE              FT
605          2022               SE              FT
606          2022               MI              FT

                          job_title  salary salary_currency  \
salary_in_usd  \
number

0                    Data Scientist   70000             EUR
79833
1         Machine Learning Scientist  260000             USD
260000
2                  Big Data Engineer   85000             GBP
109024
3                Product Data Analyst   20000             USD
20000
4          Machine Learning Engineer  150000             USD
150000
...                             ...     ...             ...
...
602                   Data Engineer  154000             USD
154000
603                   Data Engineer  126000             USD
126000
604                    Data Analyst  129000             USD
129000
605                    Data Analyst  150000             USD
150000
606                    AI Scientist  200000             USD
200000

        employee_residence  remote_ratio company_location company_size

number
```

0	DE	0	DE	L
1	JP	0	JP	S
2	GB	50	GB	M
3	HN	0	HN	S
4	US	50	US	L
...	...	...	...	...
602	US	100	US	M
603	US	100	US	M
604	US	0	US	M
605	US	100	US	M
606	IN	100	US	L

[607 rows x 11 columns]

```
df.head(5)
```

```
        work_year experience_level employment_type  \
number
0            2020               MI              FT
1            2020               SE              FT
2            2020               SE              FT
3            2020               MI              FT
4            2020               SE              FT


                        job_title  salary salary_currency
salary_in_usd  \
number

0                  Data Scientist   70000             EUR
79833
1       Machine Learning Scientist  260000             USD
260000
2                 Big Data Engineer   85000             GBP
109024
3              Product Data Analyst   20000             USD
20000
4       Machine Learning Engineer  150000             USD
150000


        employee_residence   remote_ratio company_location company_size
```

```
number
```

0	DE	0	DE	L
1	JP	0	JP	S
2	GB	50	GB	M
3	HN	0	HN	S
4	US	50	US	L

```python
currency_counts = df['salary_currency'].value_counts()
print(currency_counts)
```

```
salary_currency
USD    398
EUR     95
GBP     44
INR     27
CAD     18
JPY      3
PLN      3
TRY      3
CNY      2
MXN      2
HUF      2
DKK      2
SGD      2
BRL      2
AUD      2
CLP      1
CHF      1
Name: count, dtype: int64
```

```python
job_title = df['job_title'].value_counts()
print(job_title)
```

```
job_title
Data Scientist                143
Data Engineer                 132
Data Analyst                   97
Machine Learning Engineer      41
Research Scientist             16
Data Science Manager           12
Data Architect                 11
Big Data Engineer               8
Machine Learning Scientist      8
Principal Data Scientist        7
```

```
AI Scientist                                    7
Data Science Consultant                         7
Director of Data Science                        7
Data Analytics Manager                          7
ML Engineer                                     6
Computer Vision Engineer                        6
BI Data Analyst                                 6
Lead Data Engineer                              6
Data Engineering Manager                        5
Business Data Analyst                           5
Head of Data                                    5
Applied Data Scientist                          5
Applied Machine Learning Scientist              4
Head of Data Science                            4
Analytics Engineer                              4
Data Analytics Engineer                         4
Machine Learning Developer                      3
Machine Learning Infrastructure Engineer        3
Lead Data Scientist                             3
Computer Vision Software Engineer               3
Lead Data Analyst                               3
Data Science Engineer                           3
Principal Data Engineer                         3
Principal Data Analyst                          2
ETL Developer                                   2
Product Data Analyst                            2
Director of Data Engineering                    2
Financial Data Analyst                          2
Cloud Data Engineer                             2
Lead Machine Learning Engineer                  1
NLP Engineer                                    1
Head of Machine Learning                        1
3D Computer Vision Researcher                   1
Data Specialist                                 1
Staff Data Scientist                            1
Big Data Architect                              1
Finance Data Analyst                            1
Marketing Data Analyst                          1
Machine Learning Manager                        1
Data Analytics Lead                             1
Name: count, dtype: int64
```

```python
avg_sal=df['salary_in_usd'].mean()
print("Average salary in USD: ",avg_sal)
```

```
Average salary in USD:  112297.86985172982
```

```python
# Salary distribution by job title
plt.figure(figsize=(12, 6))
sns.boxplot(x='job_title', y='salary_in_usd', data=df)
```

```
plt.xticks(rotation=45)
plt.title('Salary Distribution by Job Title')
plt.show()
```


Salary Distribution by Job Title
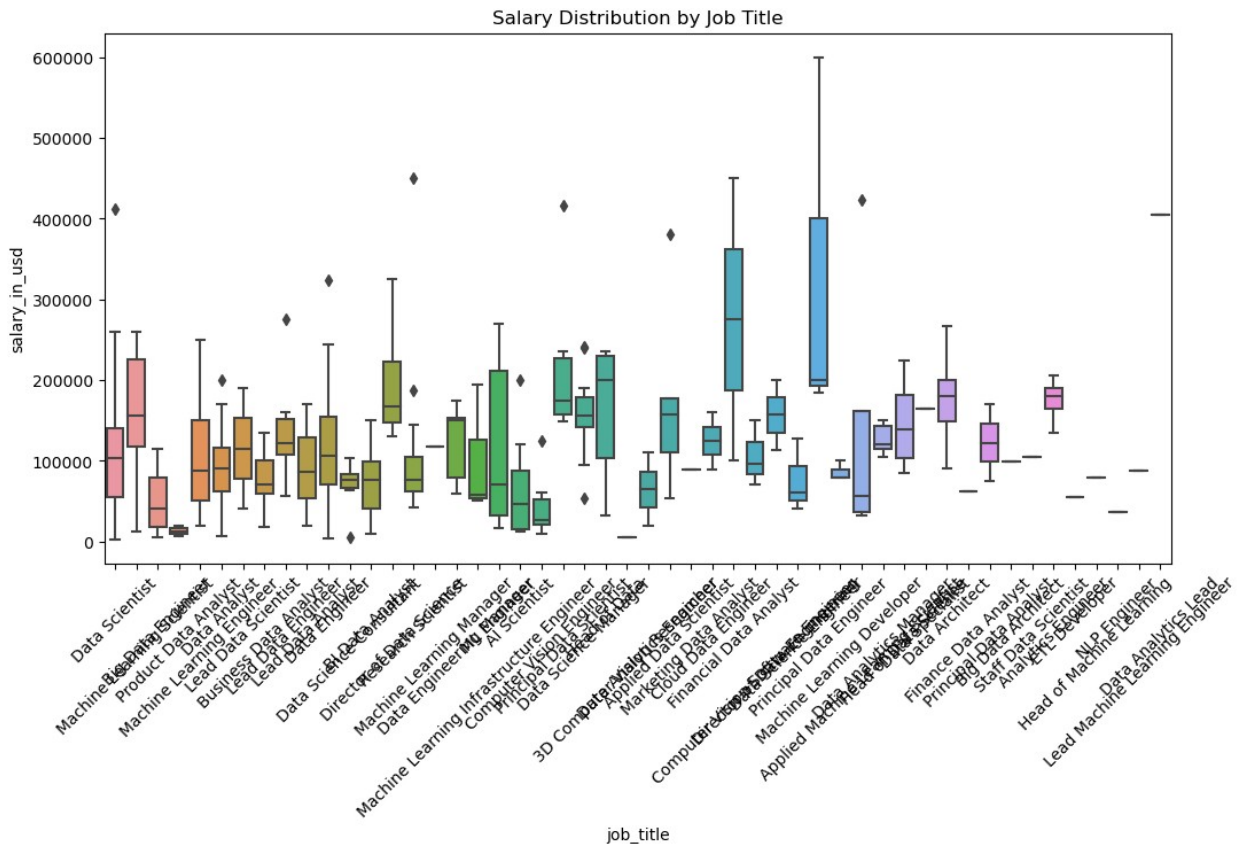
```
# Remote work ratio by employment type
plt.figure(figsize=(8, 5))
sns.barplot(x='employment_type', y='remote_ratio', data=df,
estimator=sum)
plt.title('Remote Work Ratio by Employment Type')
plt.ylabel('Remote Work Ratio')
plt.show()
```

Remote Work Ratio by Employment Type
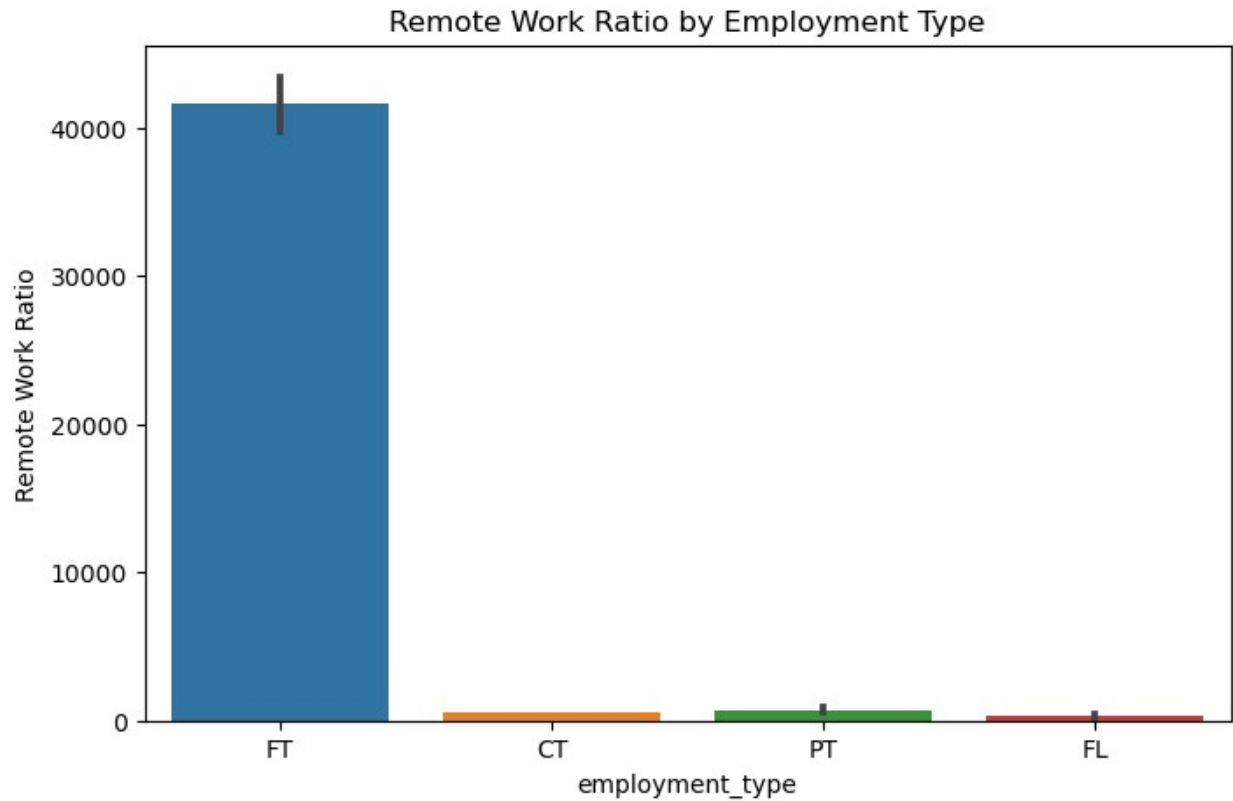
```
# Scatter plot of experience level vs salary
plt.figure(figsize=(10, 6))
sns.scatterplot(x='experience_level', y='salary_in_usd', data=df)
plt.title('Experience Level vs Salary')
plt.xticks(rotation=45)
plt.show()
```

Experience Level vs Salary
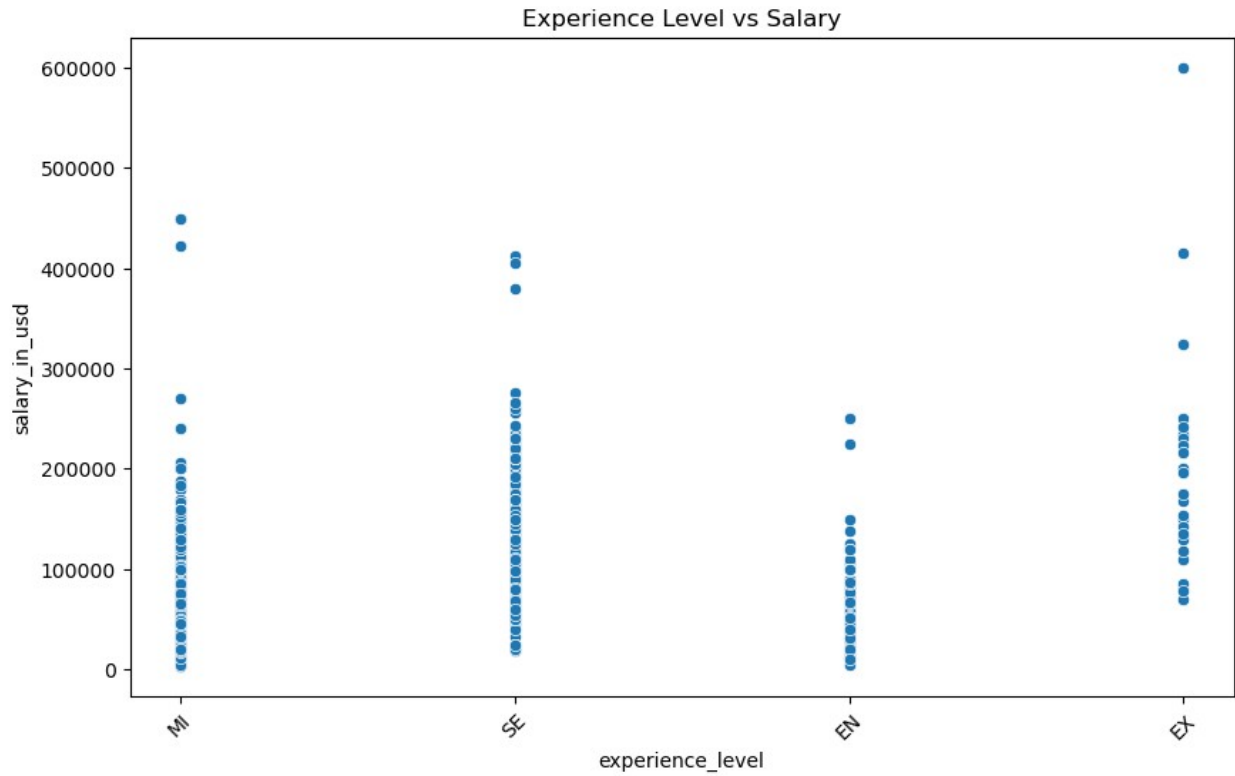
```python
# Regional differences in salary
plt.figure(figsize=(10, 6))
sns.boxplot(x='company_location', y='salary_in_usd', data=df)
plt.title('Regional Differences in Salary')
plt.xticks(rotation=45)
plt.show()
```

Regional Differences in Salary


```
# Histogram of salary distribution
plt.figure(figsize=(10, 6))
sns.histplot(df['salary_in_usd'], bins=30, kde=True)
plt.title('Distribution of Salary (USD)')
plt.xlabel('Salary (USD)')
plt.ylabel('Frequency')
plt.show()
```

Distribution of Salary (USD)
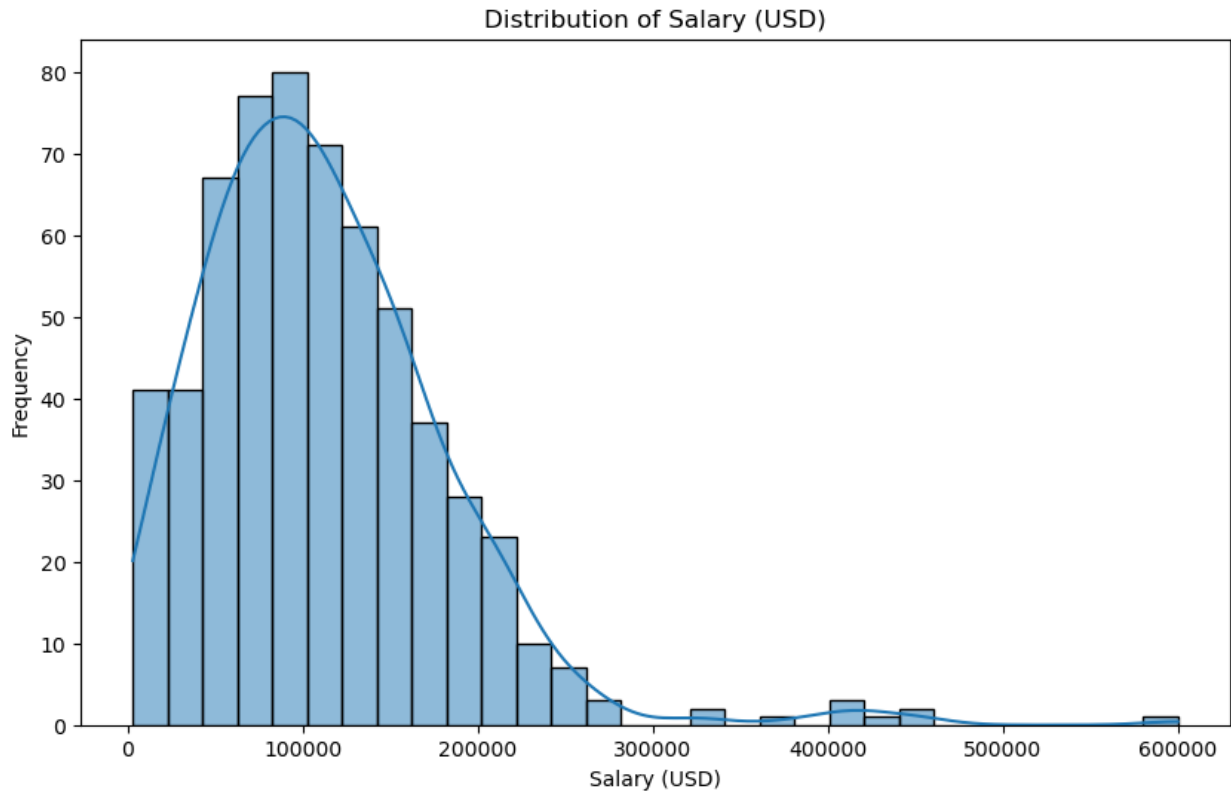

```python
# Bar plot of experience levels
plt.figure(figsize=(8, 5))
sns.countplot(x='experience_level', data=df,
order=df['experience_level'].value_counts().index)
plt.title('Count of Employees by Experience Level')
plt.xlabel('Experience Level')
plt.ylabel('Count')
plt.xticks(rotation=45)
plt.show()
```

Count of Employees by Experience Level
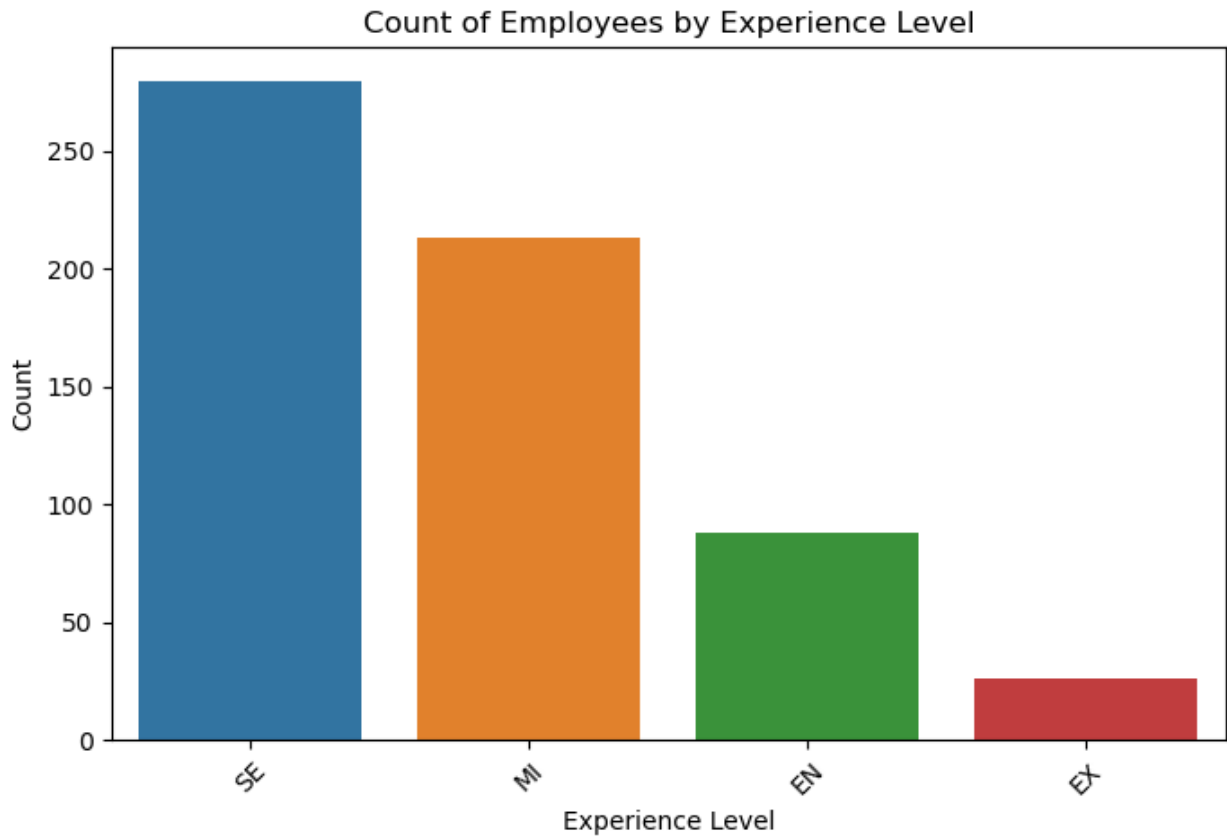
```
# Bar plot of employment types
plt.figure(figsize=(8, 5))
sns.countplot(x='employment_type', data=df,
order=df['employment_type'].value_counts().index)
plt.title('Count of Employees by Employment Type')
plt.xlabel('Employment Type')
plt.ylabel('Count')
plt.xticks(rotation=45)
plt.show()
```

Count of Employees by Employment Type
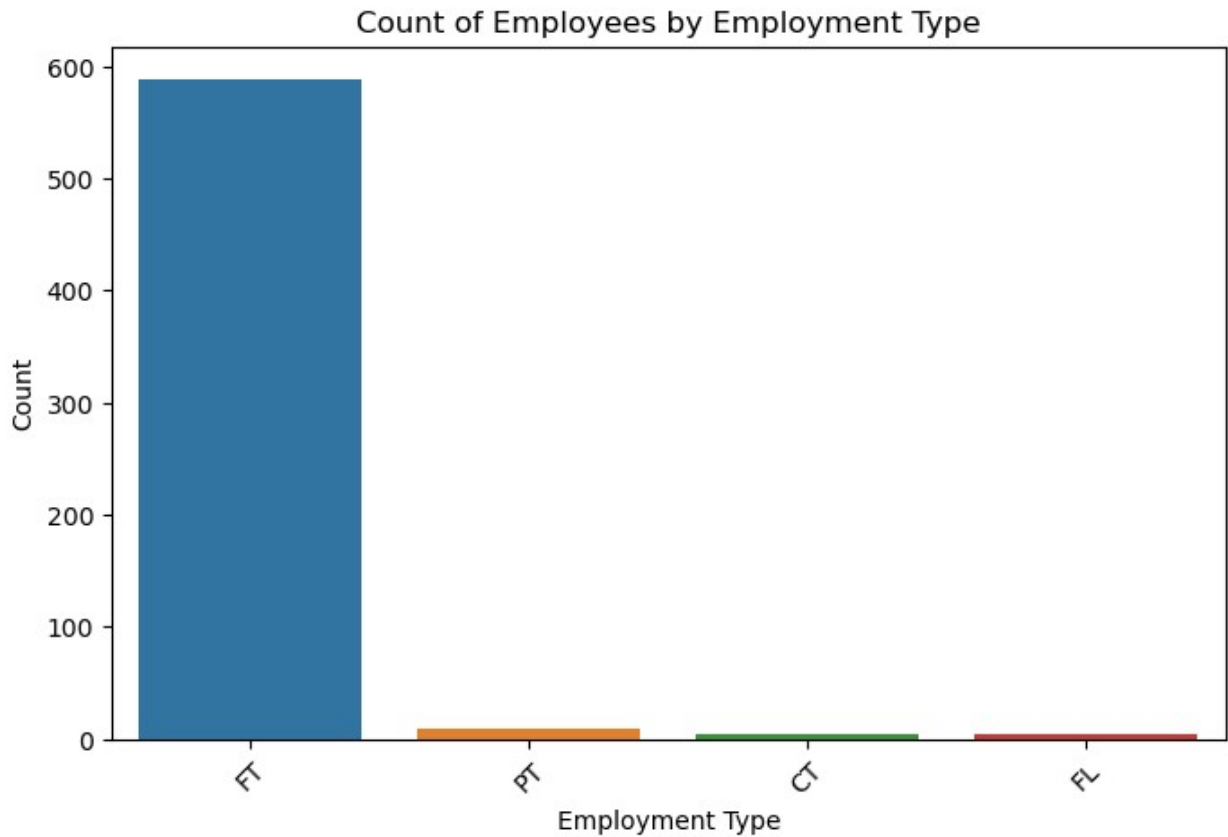
```python
# Scatter plot of salary vs work experience
plt.figure(figsize=(10, 6))
sns.scatterplot(x='work_year', y='salary_in_usd', data=df)
plt.title('Salary vs Work Experience')
plt.xlabel('Work Experience (years)')
plt.ylabel('Salary (USD)')
plt.show()
```

Salary vs Work Experience
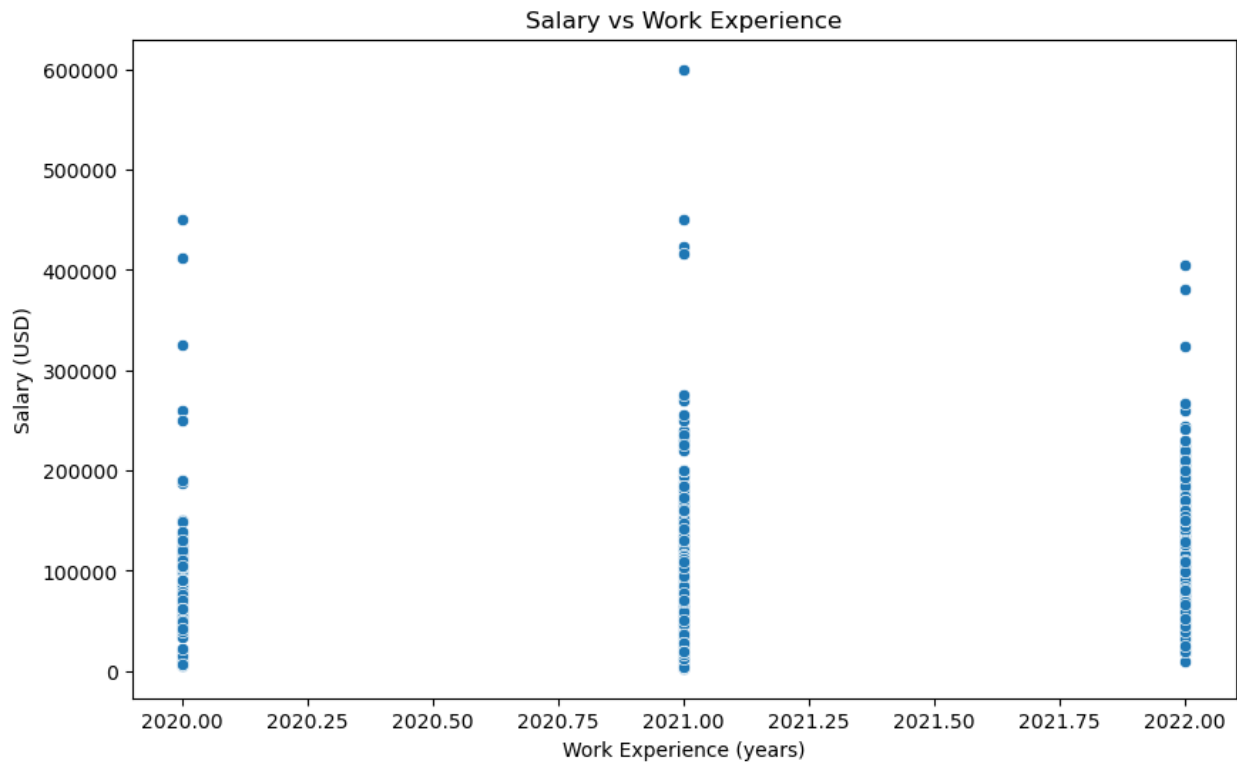

```python
# Violin plot of salary distribution by company size
plt.figure(figsize=(12, 6))
sns.violinplot(x='company_size', y='salary_in_usd', data=df)
plt.title('Salary Distribution by Company Size')
plt.xlabel('Company Size')
plt.ylabel('Salary (USD)')
plt.xticks(rotation=45)
plt.show()
```

Salary Distribution by Company Size


```python
# Box plot of remote work ratio by company location
plt.figure(figsize=(12, 6))
sns.boxplot(x='company_location', y='remote_ratio', data=df)
plt.title('Remote Work Ratio by Company Location')
plt.xlabel('Company Location')
plt.ylabel('Remote Work Ratio')
plt.xticks(rotation=45)
plt.show()
```

Remote Work Ratio by Company Location
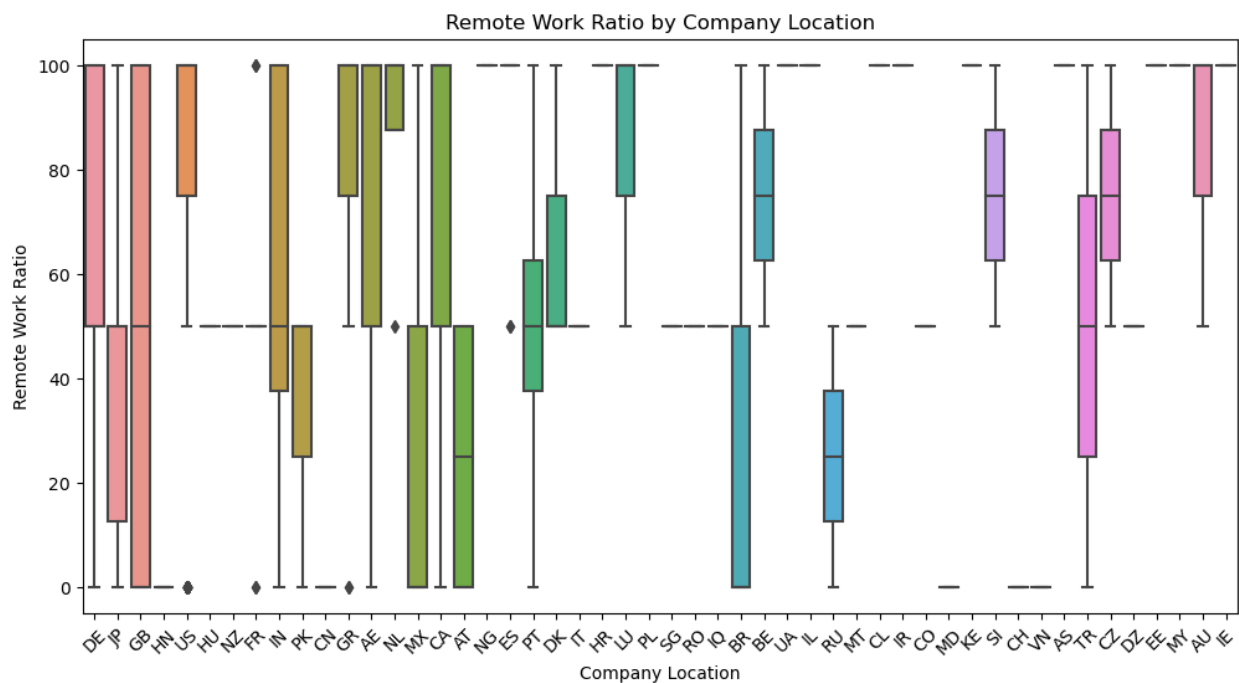
```python
# Line plot of average salary over work years
avg_salary_by_year = df.groupby('work_year')['salary_in_usd'].mean()
plt.figure(figsize=(10, 6))
avg_salary_by_year.plot(kind='line', marker='o', linestyle='-',
color='b')
plt.title('Average Salary Trend Over Work Years')
plt.xlabel('Work Years')
plt.ylabel('Average Salary (USD)')
plt.xticks(rotation=45)
plt.grid(True)
plt.show()
```
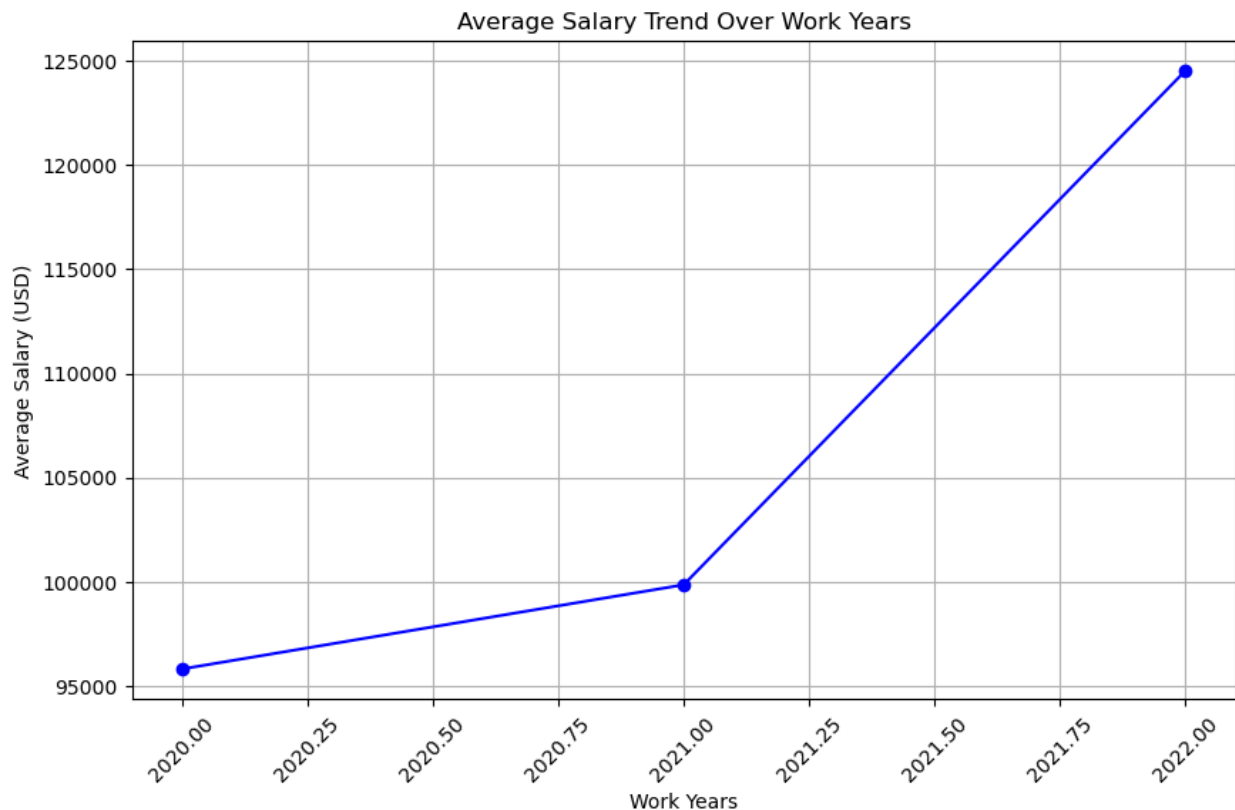


```python
# Group by job title and find the maximum salary within each group
max_salary_by_job_title = df.groupby('job_title')
['salary_in_usd'].max()

# Display the highest salary for each job title
print(max_salary_by_job_title)
```

```
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
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

# Group by job title and find the maximum salary within each group
max_salary = df['salary_in_usd'].max()
```

```python
# Display the highest salary for each job title
print(max_salary)
```

```
600000
```

```python
# Group by job title and find the maximum salary within each group
max_salary_by_job_title = df.groupby('job_title')
['salary_in_usd'].max()
```

```python
# Determine the highest paying job title and corresponding maximum
salary
highest_paying_job_title = max_salary_by_job_title.idxmax()
highest_salary = max_salary_by_job_title.max()
```

```python
# Display the highest paying job title and maximum salary
print(f"The highest paying job title is '{highest_paying_job_title}'
with a maximum salary of ${highest_salary}")
```

```
The highest paying job title is 'Principal Data Engineer' with a
maximum salary of $600000
```

```python
# Group by job title and calculate the mean salary within each group
mean_salary_by_job_title = df.groupby('job_title')
['salary_in_usd'].mean()
mean_salary_integers = mean_salary_by_job_title.astype(int)
print(mean_salary_integers)
```

```
job_title
3D Computer Vision Researcher           5409
AI Scientist                           66135
Analytics Engineer                    175000
Applied Data Scientist                175655
Applied Machine Learning Scientist    142068
BI Data Analyst                        74755
Big Data Architect                     99703
Big Data Engineer                      51974
Business Data Analyst                  76691
Cloud Data Engineer                   124647
Computer Vision Engineer               44419
Computer Vision Software Engineer     105248
Data Analyst                           92893
Data Analytics Engineer                64799
Data Analytics Lead                   405000
Data Analytics Manager                127134
Data Architect                        177873
Data Engineer                         112725
Data Engineering Manager              123227
Data Science Consultant                69420
Data Science Engineer                  75803
Data Science Manager                  158328
```

```
Data Scientist                              108187
Data Specialist                             165000
Director of Data Engineering                156738
Director of Data Science                    195074
ETL Developer                                54957
Finance Data Analyst                         61896
Financial Data Analyst                      275000
Head of Data                                160162
Head of Data Science                        146718
Head of Machine Learning                     79039
Lead Data Analyst                            92203
Lead Data Engineer                          139724
Lead Data Scientist                         115190
Lead Machine Learning Engineer               87932
ML Engineer                                 117504
Machine Learning Developer                   85860
Machine Learning Engineer                   104880
Machine Learning Infrastructure Engineer    101145
Machine Learning Manager                    117104
Machine Learning Scientist                  158412
Marketing Data Analyst                       88654
NLP Engineer                                 37236
Principal Data Analyst                      122500
Principal Data Engineer                     328333
Principal Data Scientist                    215242
Product Data Analyst                         13036
Research Scientist                          109019
Staff Data Scientist                        105000
Name: salary_in_usd, dtype: int32
```

```python
sns.distplot(df['salary'],color='pink')
```

```
C:\Users\1006y\AppData\Local\Temp\ipykernel_12748\1896827555.py:1:
UserWarning:

`distplot` is a deprecated function and will be removed in seaborn
v0.14.0.

Please adapt your code to use either `displot` (a figure-level
function with
similar flexibility) or `histplot` (an axes-level function for
histograms).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  sns.distplot(df['salary'],color='pink')
```

```
<Axes: xlabel='salary', ylabel='Density'>
```
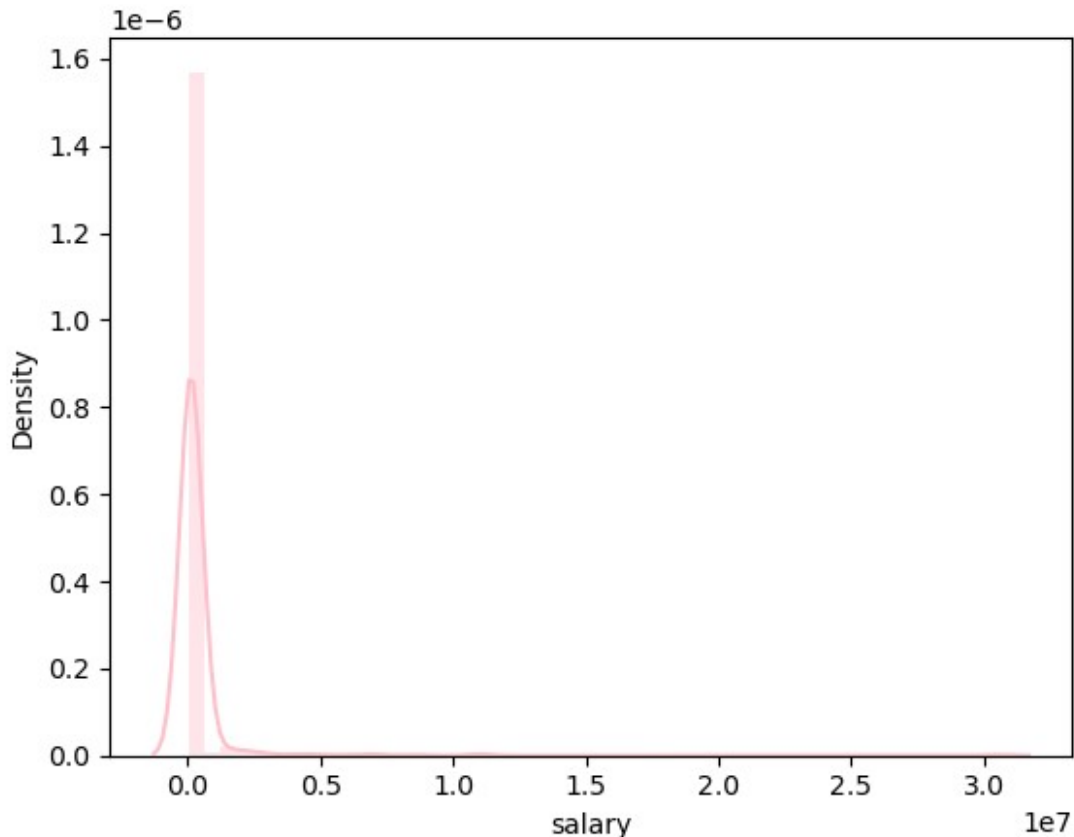
```
# Calculate mean salary by job title
mean_salary_by_job_title = df.groupby('job_title')
['salary_in_usd'].mean().reset_index()

# Create an interactive bar chart using Plotly Express
fig = px.bar(mean_salary_by_job_title, x='job_title',
y='salary_in_usd', title='Mean Salary by Job Title',
            labels={'job_title': 'Job Title', 'salary_in_usd': 'Mean
Salary (USD)'})

# Show the interactive plot
fig.show()
```

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```

```python
# Grouping by company size, job title, and calculating mean salary
company_size_analysis = df.groupby(['company_size', 'job_title'])
['salary_in_usd'].mean().reset_index()

# Displaying the company size-wise analysis
print(company_size_analysis)
```

```
    company_size                              job_title  salary_in_usd
0              L                           AI Scientist      127500.00
1              L                  Applied Data Scientist      175655.00
2              L      Applied Machine Learning Scientist      249000.00
3              L                          BI Data Analyst      93129.50
4              L                       Big Data Engineer       28680.25
..           ...                                    ...            ...
93             S              Machine Learning Scientist      190000.00
94             S                  Principal Data Analyst       75000.00
95             S                Principal Data Scientist      416000.00
96             S                     Product Data Analyst       20000.00
97             S                       Research Scientist       53369.00

[98 rows x 3 columns]
```

```python
# Grouping by company size and finding maximum and minimum salary
company_size_salary_stats = df.groupby('company_size')
['salary_in_usd'].agg(['max', 'min']).reset_index()

# Displaying the maximum and minimum salary for each company size
print(company_size_salary_stats)
```

```
  company_size     max   min
0            L  600000  5882
1            M  450000  4000
2            S  416000  2859
```

```python
# Grouping by company size and job title, and finding minimum and
maximum salary
company_size_job_salary_stats = df.groupby(['company_size',
'job_title'])['salary_in_usd'].agg(['min', 'max']).reset_index()

# Finding the job titles with minimum salary for each company size
min_salary_jobs =
company_size_job_salary_stats.loc[company_size_job_salary_stats.groupb
y('company_size')['min'].idxmin()]
```

```python
# Finding the job titles with maximum salary for each company size
max_salary_jobs =
company_size_job_salary_stats.loc[company_size_job_salary_stats.groupb
y('company_size')['max'].idxmax()]

# Displaying the job titles with minimum and maximum salary for each
company size
print("Job Titles with Minimum Salary for Each Company Size:")
print(min_salary_jobs)
print("\n")

print("\nJob Titles with Maximum Salary for Each Company Size:")
print(max_salary_jobs)
```

```
Job Titles with Minimum Salary for Each Company Size:
   company_size          job_title   min      max
4             L  Big Data Engineer  5882    70000
53            M       Data Engineer  4000   324000
84            S       Data Scientist  2859   105000


Job Titles with Maximum Salary for Each Company Size:
   company_size               job_title     min      max
35            L   Principal Data Engineer  185000   600000
72            M          Research Scientist   62649   450000
95            S  Principal Data Scientist  416000   416000
```

```python
import plotly.express as px

fig = px.pie(df, names='salary_currency', title='Distribution of
Salary Currency')
fig.show()
```

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fig.show()
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fig.show()
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Meaningfull insights from the project

Insights:

1. **Salary Distribution by Job Title:**
   - Data Scientist, Data Engineer, and Data Analyst are the most common job titles.
   - There are specialized roles like AI Scientist, Research Scientist, and Machine Learning Engineer with fewer occurrences but potentially higher salaries.
2. **Remote Work Ratio by Employment Type:**
   - Full-time positions have higher remote work ratios compared to part-time or contract positions.
3. **Salary Trends:**
   - The average salary is approximately $112,298 USD.
   - The salary varies significantly based on job title, experience level, and company size.
4. **Regional Differences in Salary:**

      –   There are differences in salaries based on the location of the company.

5. **Company Size Impact on Salary:**
   - Larger companies tend to offer higher maximum salaries compared to smaller companies.
   - Job titles like Principal Data Engineer, Principal Data Scientist, and Research Scientist have high salary ranges.

6. **Insights from Pie Charts:**
   - Most salaries are denoted in USD, indicating that the dataset is likely dominated by companies or employees in countries where USD is a common currency.
   - Mid-level experience is the most prevalent among employees in the dataset.
   - Medium-sized companies have the highest representation in the dataset, followed by small and large companies.

These insights provide a comprehensive understanding of the salary landscape across industries, experience levels, and company sizes based on the provided dataset.