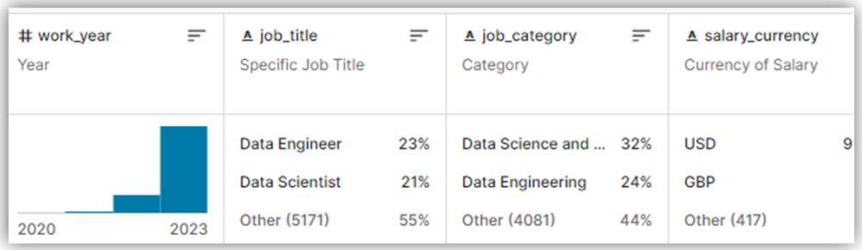
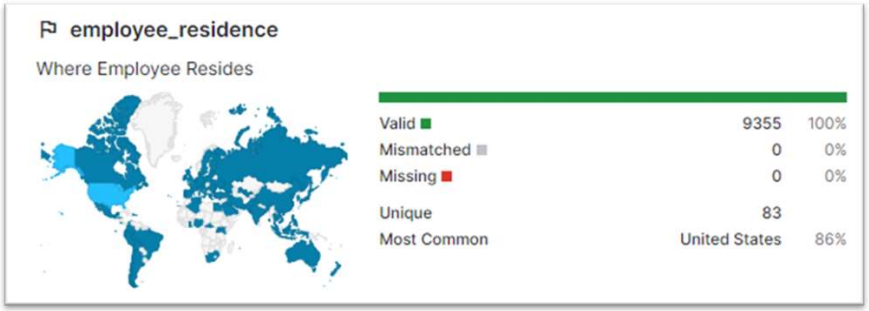
In [ ]:

```
                                    ANALYSIS OF JOBS IN DATA SCIENCE IN RECENT TIMES

INTRODUCTION

In recent years, the field of data science has experienced a rapid and profound evolution, transforming the way busir
The proliferation of digital technologies, coupled with the exponential growth of data, has fueled the demand for ski
roles across various industries.
The introduction of data science jobs has reshaped traditional business models, leading to a paradigm shift where dat
organizational strategies. These roles encompass a wide range of responsibilities, from collecting, cleaning, and pro
insights and predictions through advanced analytics and machine learning techniques.


ACKNOWLEDGEMENT:
We Omprava Mandal, Supritha Pal, Payel Ghosh, and Pallabi Dutta would like to express our sincere gratitude and appre
contributed to the successful execution of this data science job analysis project. We extend our thanks to each membe
contributions, and dedication, which significantly enriched the project's outcomes.

The csv file is being found, downloaded, and then cleaned and the project is being executed by our team members with
We are deeply thankful to Suramya Biswas sir for the guidance, support, and invaluable insights provided throughout t
We are grateful to Anudip Foundation for granting access to essential resources, datasets, and tools crucial to condu
We acknowledge the creators and contributors of Python, Word that were instrumental in data collection, analysis, and

This project would not have been possible without the collective efforts and support of each individual and entity me
contributions have been invaluable in shaping the outcomes and enhancing the quality of this endeavor.


OBJECTIVES:
Here are some potential objectives:
Trend Analysis: Understand the overall trend in demand for data science jobs over a specific period. In our project,
                increasing in an exponential height, especially in foreign countries.
```



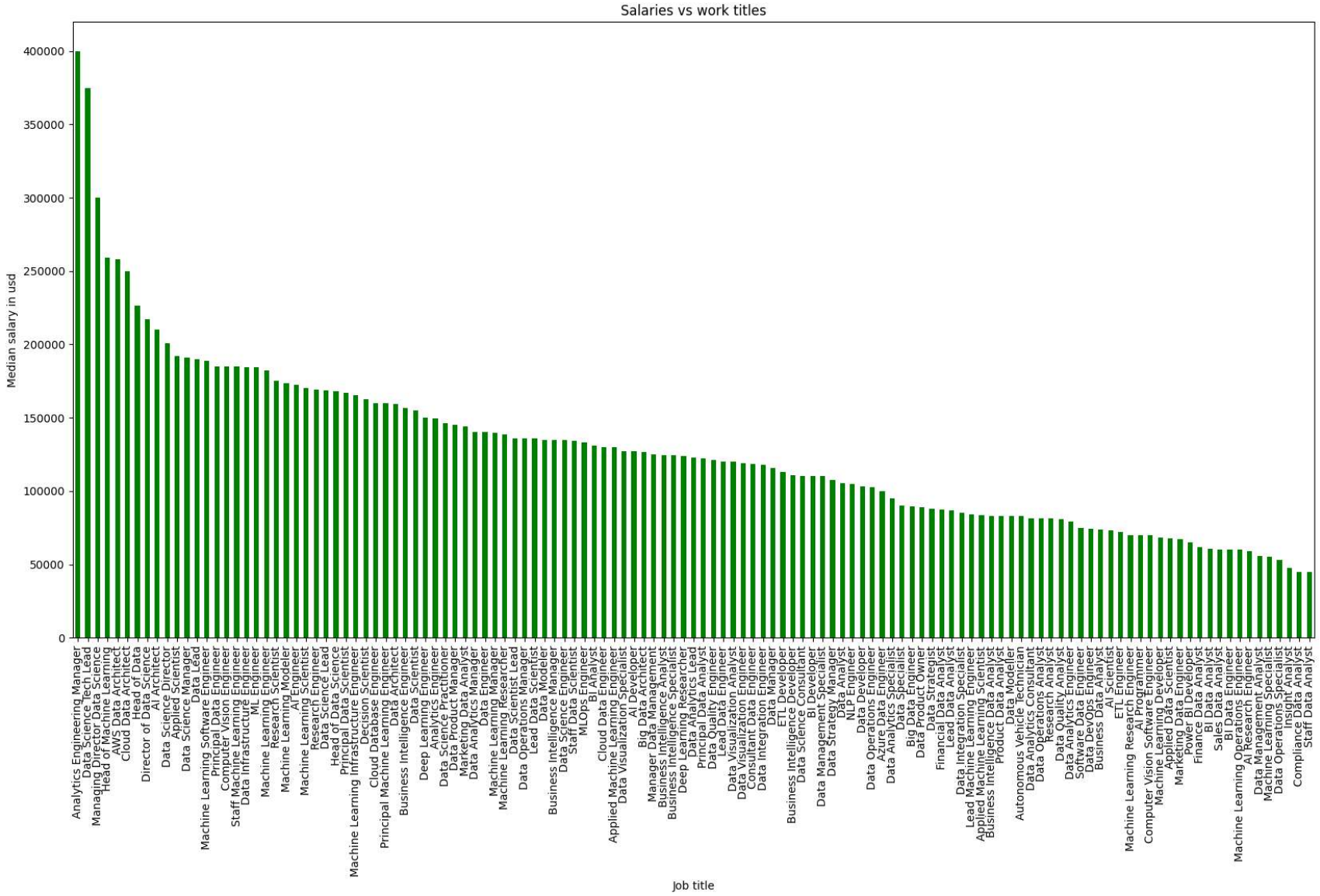
In [ ]:
```
Geographical Distribution: The geographical distribution of data science jobs has been widespread in recent times, wi
                           Valley, New York, London, and Bangalore. However, the demand for data scientists has been
                           hubs in cities like Berlin, Singapore, and Tel Aviv. Remote work options have also increas
                           contribute to the field from various locations.
Countries vs job graph
```



In [ ]:
```
 Data science jobs have seen significant demand across various industries. Technology companies, finance, healthcare,
continue to heavily invest in data science talent. Additionally, industries such as manufacturing, energy, and logist
science for process optimization and decision-making. The interdisciplinary nature of data science allows it to perme
it a crucial skillset in today's job market.

Salary Trends: As of my last knowledge update in January 2022, data science salaries continued to be robust, with var
               experience, location, and industry. Generally, data scientists with advanced degrees and several years
               higher salaries. Tech hubs like Silicon Valley, New York, and Seattle often offered higher compensatio
               professionals.
Salaries vs job titles
```

In [55]:
```
    csv_file_path = 'jobs in data science.csv'
    df = pd.read_csv(csv_file_path)
    plt.figure(figsize=(20,10))
    salary_by_job_title = df.groupby('job_title')['salary_in_usd'].median().sort_values(ascending=False)
    salary_by_job_title.plot(kind='bar', color='green')
```

```
    plt.title('Salaries vs work titles')
    plt.xlabel('Job title')
    plt.ylabel('Median salary in usd')
    plt.show()
```



In [ ]:
```
However, salary trends can change over time based on market dynamics, so it's advisable to consult the latest industr
salary surveys for the most up-to-date information on data science salaries in 2024.
```

```
Comparison Across Companies: Different companies may emphasize distinct aspects of data science jobs based on their s
                             giants like Google, Amazon, and Microsoft often focus on large-scale data processing, ma
                             intelligence. Financial institutions like JPMorgan Chase or Goldman Sachs may emphasize
                             and financial modeling.
Startups often require data scientists to wear multiple hats, engaging in both analysis and implementation. Healthcar
may prioritize data scientists working on healthcare analytics and predictive modeling.

It's essential to consider the industry, company size, and specific business goals when comparing data science job re
organization tailors data science roles to address its unique challenges and objectives.


LIBRARIES AND TOOLS:
•       NumPy: For numerical computations and statistical analysis.
•       Matplotlib: For creating visualizations and plots.
•       Pandas: For data manipulation and analysis.
•       Basic Python: For handling data structures like arrays, tuples, and basic operations.


DATA COLLECTION STEPS:
Data sources is being identified from Kaggle. The CSV file is downloaded and the information and dataset is being col
Define Data Structure:
Determining the information for collecting for each job posting: job title, company, location, description, required
Data Collection Execution:
The extracted data is stored in a structured format i.e, csv file. It is being formatted, cleaned, and executed.


EXPLORATORY DATA ANALYSIS (EDA)-
is crucial for understanding the characteristics and patterns within the collected dataset.
Here's a structured approach using Python libraries like Pandas and Matplotlib:

Exploratory Data Analysis Steps:
                 Data Loading: We are using Pandas to load the dataset (CSV) collected during the data collection ph
                               The dataset is loaded and read
```

In [5]:
```python
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
def pythonProject():
    csv_file_path = 'jobs in data science.csv'
    df = pd.read_csv(csv_file_path)
```

```
    print(df)
pythonProject()
```

```
      work_year                  job_title                    job_category  \
0          2023      Data DevOps Engineer                 Data Engineering
1          2023             Data Architect  Data Architecture and Modeling
2          2023             Data Architect  Data Architecture and Modeling
3          2023             Data Scientist       Data Science and Research
4          2023             Data Scientist       Data Science and Research
...         ...                        ...                             ...
9350       2021           Data Specialist    Data Management and Strategy
9351       2020             Data Scientist       Data Science and Research
9352       2021  Principal Data Scientist       Data Science and Research
9353       2020             Data Scientist       Data Science and Research
9354       2020     Business Data Analyst                    Data Analysis

     salary_currency  salary  salary_in_usd employee_residence  \
0                EUR   88000          95012            Germany
1                USD  186000         186000      United States
2                USD   81800          81800      United States
3                USD  212000         212000      United States
4                USD   93300          93300      United States
...              ...     ...            ...                ...
9350             USD  165000         165000      United States
9351             USD  412000         412000      United States
9352             USD  151000         151000      United States
9353             USD  105000         105000      United States
9354             USD  100000         100000      United States

     experience_level employment_type work_setting company_location  \
0           Mid-level       Full-time       Hybrid          Germany
1              Senior       Full-time    In-person    United States
2              Senior       Full-time    In-person    United States
3              Senior       Full-time    In-person    United States
4              Senior       Full-time    In-person    United States
...               ...             ...          ...              ...
9350           Senior       Full-time       Remote    United States
9351           Senior       Full-time       Remote    United States
9352        Mid-level       Full-time       Remote    United States
9353     Entry-level       Full-time       Remote    United States
9354     Entry-level        Contract       Remote    United States

     company_size
0               L
1               M
```

```
2               M
3               M
4               M
...           ...
9350            L
9351            L
9352            L
9353            S
9354            L

[9355 rows x 12 columns]
```

In [ ]:
```
Dataset info:
```

In [4]:
```
    csv_file_path = 'jobs in data science.csv'
    df = pd.read_csv(csv_file_path)
    print(df.info())
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9355 entries, 0 to 9354
Data columns (total 12 columns):
 #   Column              Non-Null Count  Dtype 
---  ------              --------------  ----- 
 0   work_year           9355 non-null   int64 
 1   job_title           9355 non-null   object
 2   job_category        9355 non-null   object
 3   salary_currency     9355 non-null   object
 4   salary              9355 non-null   int64 
 5   salary_in_usd       9355 non-null   int64 
 6   employee_residence  9355 non-null   object
 7   experience_level    9355 non-null   object
 8   employment_type     9355 non-null   object
 9   work_setting        9355 non-null   object
 10  company_location    9355 non-null   object
 11  company_size        9355 non-null   object
dtypes: int64(3), object(9)
memory usage: 877.2+ KB
None
```

In [ ]:
```
Check for missing values :
```

In [5]:
```
    csv_file_path = 'jobs in data science.csv'
    df = pd.read_csv(csv_file_path)
    print(df.isnull().sum())
```

```
work_year             0
job_title             0
job_category          0
salary_currency       0
salary                0
salary_in_usd         0
employee_residence    0
experience_level      0
employment_type       0
work_setting          0
company_location      0
company_size          0
dtype: int64
```

In [ ]:
```
Drop columns with any missing values:
```

In [6]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
df.dropna(axis=1, inplace=True)
print(df)
```

```
      work_year                  job_title                    job_category  \
0          2023      Data DevOps Engineer                 Data Engineering
1          2023             Data Architect  Data Architecture and Modeling
2          2023             Data Architect  Data Architecture and Modeling
3          2023             Data Scientist       Data Science and Research
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...         ...                        ...                             ...
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4              Senior       Full-time    In-person    United States
...               ...             ...          ...              ...
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     company_size
0               L
1               M
```

```
2               M
3               M
4               M
...           ...
9350            L
9351            L
9352            L
9353            S
9354            L

[9355 rows x 12 columns]
```

In [ ]:
```
Drop rows with missing values:
```

In [7]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
df.dropna(inplace=True)
print(df)
```

```
      work_year                  job_title                    job_category  \
0          2023      Data DevOps Engineer                 Data Engineering
1          2023             Data Architect  Data Architecture and Modeling
2          2023             Data Architect  Data Architecture and Modeling
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...         ...                        ...                             ...
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...               ...             ...          ...              ...
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9352        Mid-level       Full-time       Remote    United States
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9354     Entry-level        Contract       Remote    United States

     company_size
0               L
1               M
```

```
2               M
3               M
4               M
...           ...
9350            L
9351            L
9352            L
9353            S
9354            L

[9355 rows x 12 columns]
```

In [ ]:
```
Data (after cleaning)
```

In [8]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
df.to_csv('cleaned_dataset.csv', index=False)
print(df)
```

```
      work_year                  job_title                    job_category  \
0          2023      Data DevOps Engineer                 Data Engineering
1          2023             Data Architect  Data Architecture and Modeling
2          2023             Data Architect  Data Architecture and Modeling
3          2023             Data Scientist       Data Science and Research
4          2023             Data Scientist       Data Science and Research
...         ...                        ...                             ...
9350       2021           Data Specialist    Data Management and Strategy
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     company_size
0               L
1               M
```

```
2               M
3               M
4               M
...           ...
9350            L
9351            L
9352            L
9353            S
9354            L

[9355 rows x 12 columns]
```

In [ ]:
```
Statistical summary of the dataset:
```

In [6]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
print(df['salary_in_usd'].describe())
```

```
count      9355.000000
mean     150299.495564
std       63177.372024
min       15000.000000
25%      105700.000000
50%      143000.000000
75%      186723.000000
max      450000.000000
Name: salary_in_usd, dtype: float64
```

In [ ]:
```
Dataset Description with the titles:
```

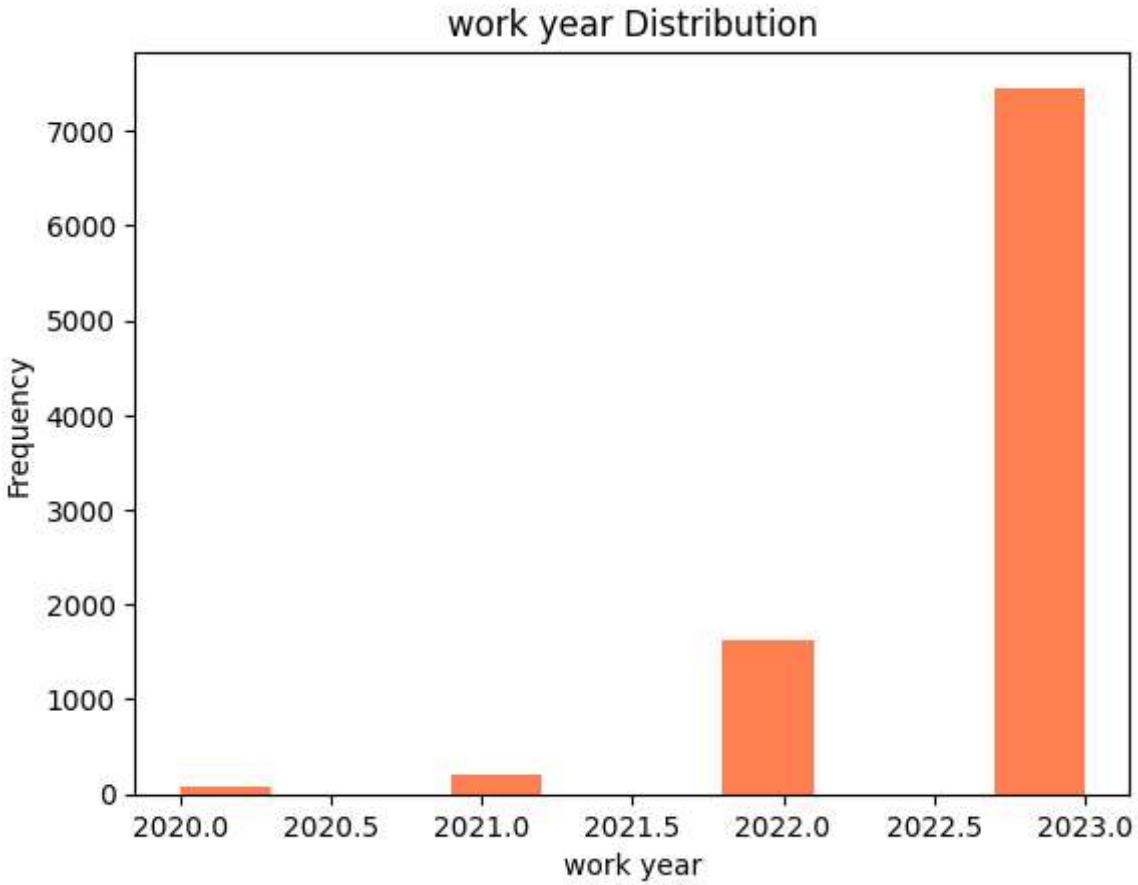
In [7]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
print(df.nunique())
```

```
work_year               4
job_title             125
job_category           10
salary_currency        11
salary               1507
salary_in_usd        1786
employee_residence     83
experience_level        4
employment_type         4
work_setting            3
company_location       70
company_size            3
dtype: int64
```

In [ ]:

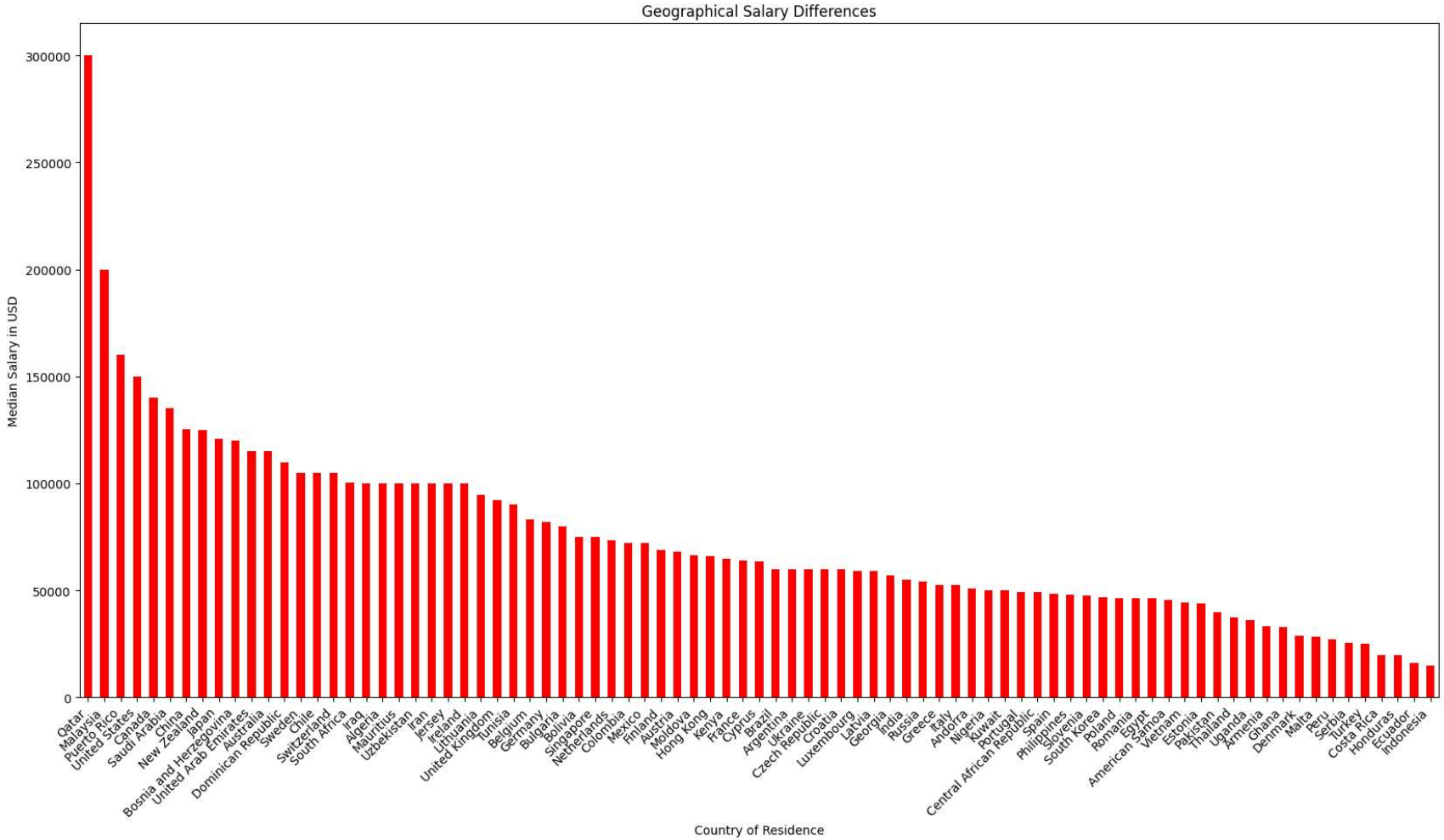
In [ ]:
```
CONTEXT QUESTIONS
Project Scope and Objectives
❓      How does this project show the leniency towards data science field?
```

In [8]:
```
    csv_file_path = 'jobs in data science.csv'
    df = pd.read_csv(csv_file_path)
    plt.hist(df['work_year'],bins=10, color='coral')
    plt.xlabel('work year')
    plt.ylabel('Frequency')
    plt.title('work year Distribution')
    plt.show()
```



In [ ]:
```
      Which countries are currently showing a high demand for data science professionals?
```

In [37]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
plt.figure(figsize=(20,10))
salary_by_residence = df.groupby('employee_residence')['salary_in_usd'].median().sort_values(ascending=False)
salary_by_residence.plot(kind='bar', color='red')
plt.title('Geographical Salary Differences')
plt.xlabel('Country of Residence')
plt.ylabel('Median Salary in USD')
plt.xticks(rotation=45,ha='right')
plt.show()
```

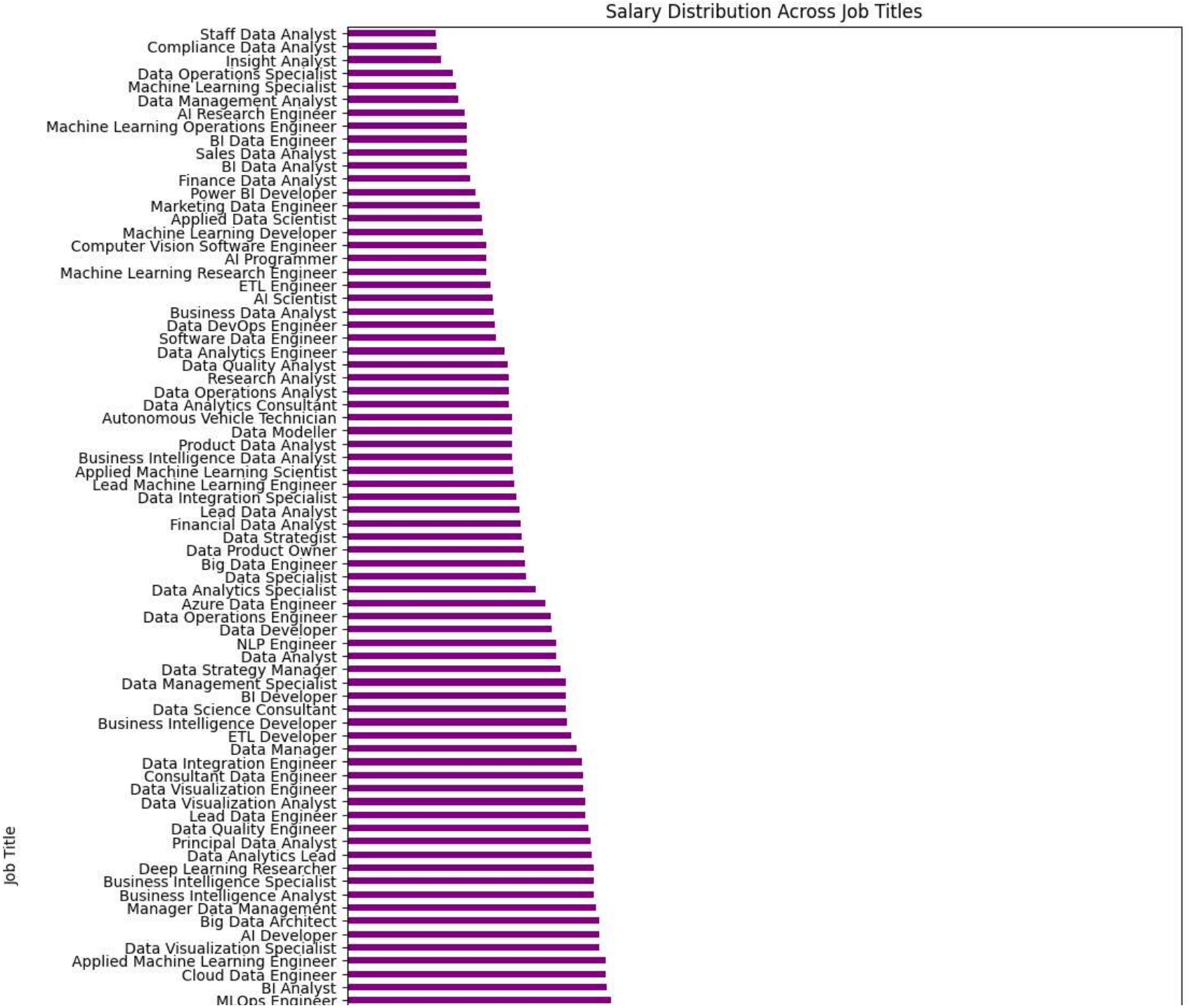


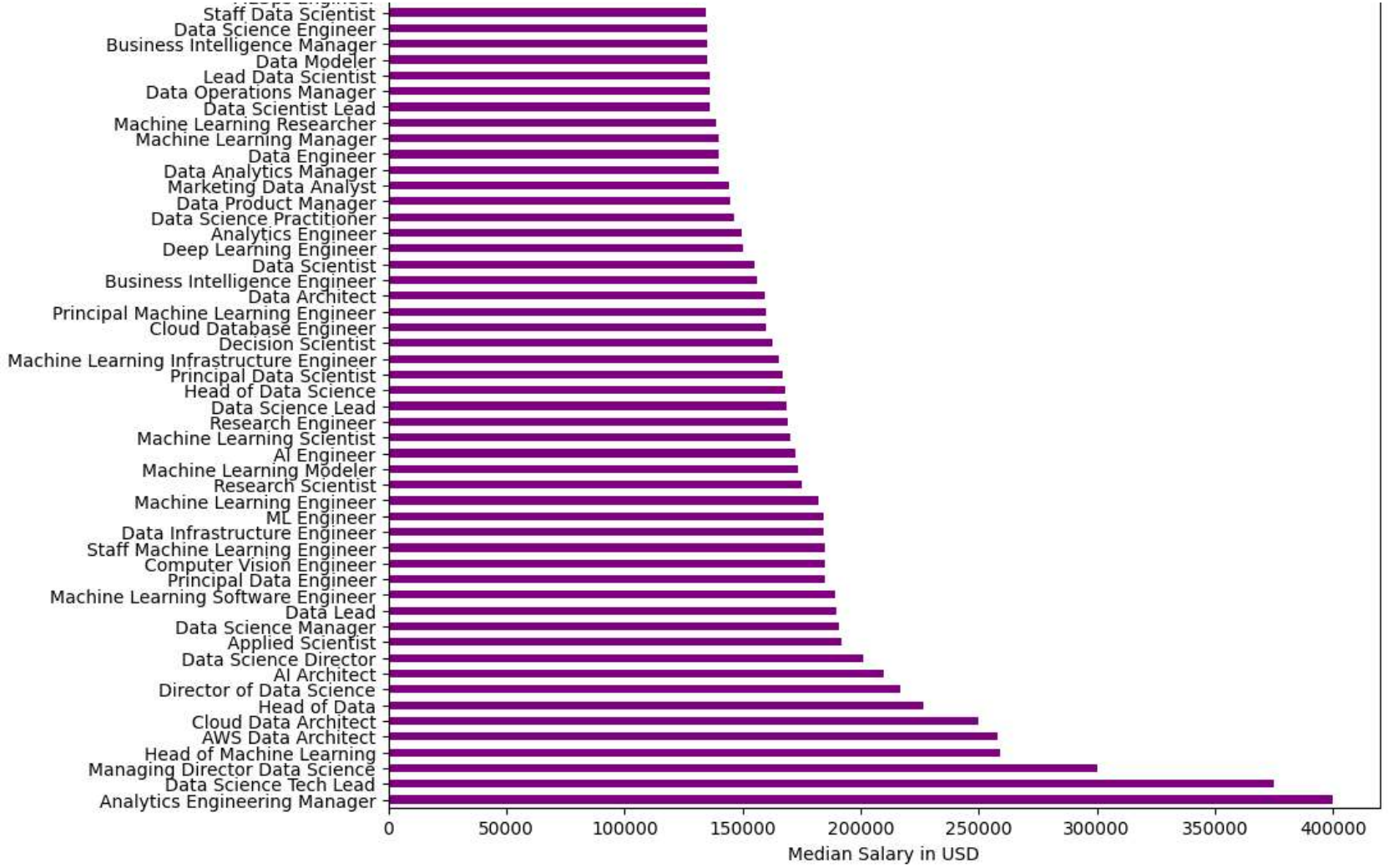
In [20]:
```
?       In what ways has the industry focus for salaries for data science jobs evolved over the past few years?
```

```
Object `years` not found.
```

In [36]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
job_title_salary_distribution = df.groupby('job_title')['salary_in_usd'].median().sort_values(ascending=False)
plt.figure(figsize=(10,20))
job_title_salary_distribution.plot(kind='barh', color='purple')
plt.title('Salary Distribution Across Job Titles')
plt.xlabel('Median Salary in USD')
plt.ylabel('Job Title')
```

```
plt.show()
```

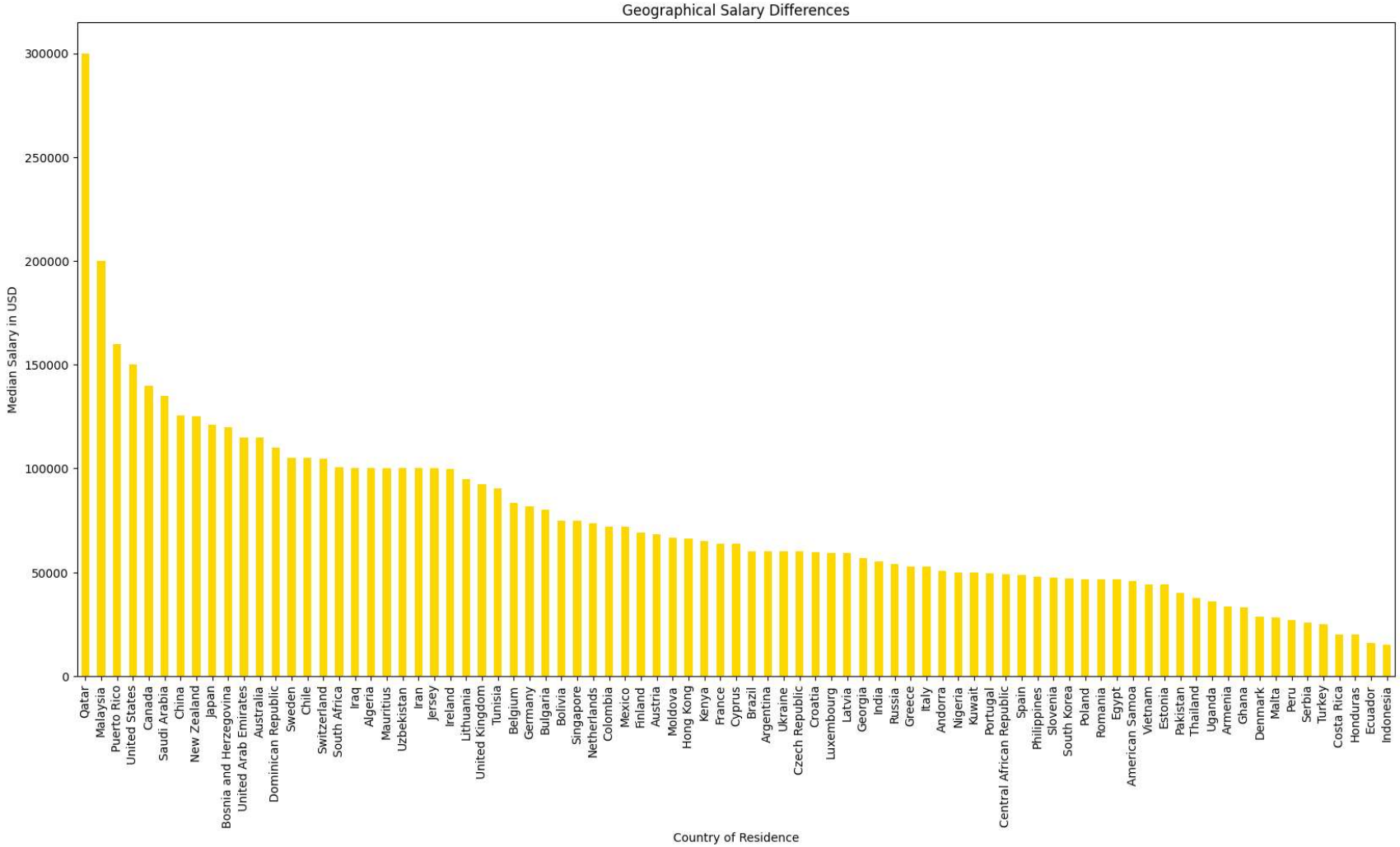

Salary Distribution Across Job Titles
Job Title
Staff Data Analyst
Compliance Data Analyst
Insight Analyst
Data Operations Specialist
Machine Learning Specialist
Data Management Analyst
AI Research Engineer
Machine Learning Operations Engineer
BI Data Engineer
Sales Data Analyst
BI Data Analyst
Finance Data Analyst
Power BI Developer
Marketing Data Engineer
Applied Data Scientist
Machine Learning Developer
Computer Vision Software Engineer
AI Programmer
Machine Learning Research Engineer
ETL Engineer
AI Scientist
Business Data Analyst
Data DevOps Engineer
Software Data Engineer
Data Analytics Engineer
Data Quality Analyst
Research Analyst
Data Operations Analyst
Data Analytics Consultant
Autonomous Vehicle Technician
Data Modeller
Product Data Analyst
Business Intelligence Data Analyst
Applied Machine Learning Scientist
Lead Machine Learning Engineer
Data Integration Specialist
Lead Data Analyst
Financial Data Analyst
Data Strategist
Data Product Owner
Big Data Engineer
Data Specialist
Data Analytics Specialist
Azure Data Engineer
Data Operations Engineer
Data Developer
NLP Engineer
Data Analyst
Data Strategy Manager
Data Management Specialist
BI Developer
Data Science Consultant
Business Intelligence Developer
ETL Developer
Data Manager
Data Integration Engineer
Consultant Data Engineer
Data Visualization Engineer
Data Visualization Analyst
Lead Data Engineer
Data Quality Engineer
Principal Data Analyst
Data Analytics Lead
Deep Learning Researcher
Business Intelligence Specialist
Business Intelligence Analyst
Manager Data Management
Big Data Architect
AI Developer
Data Visualization Specialist
Applied Machine Learning Engineer
Cloud Data Engineer
BI Analyst
MLOps Engineer



In [ ]:

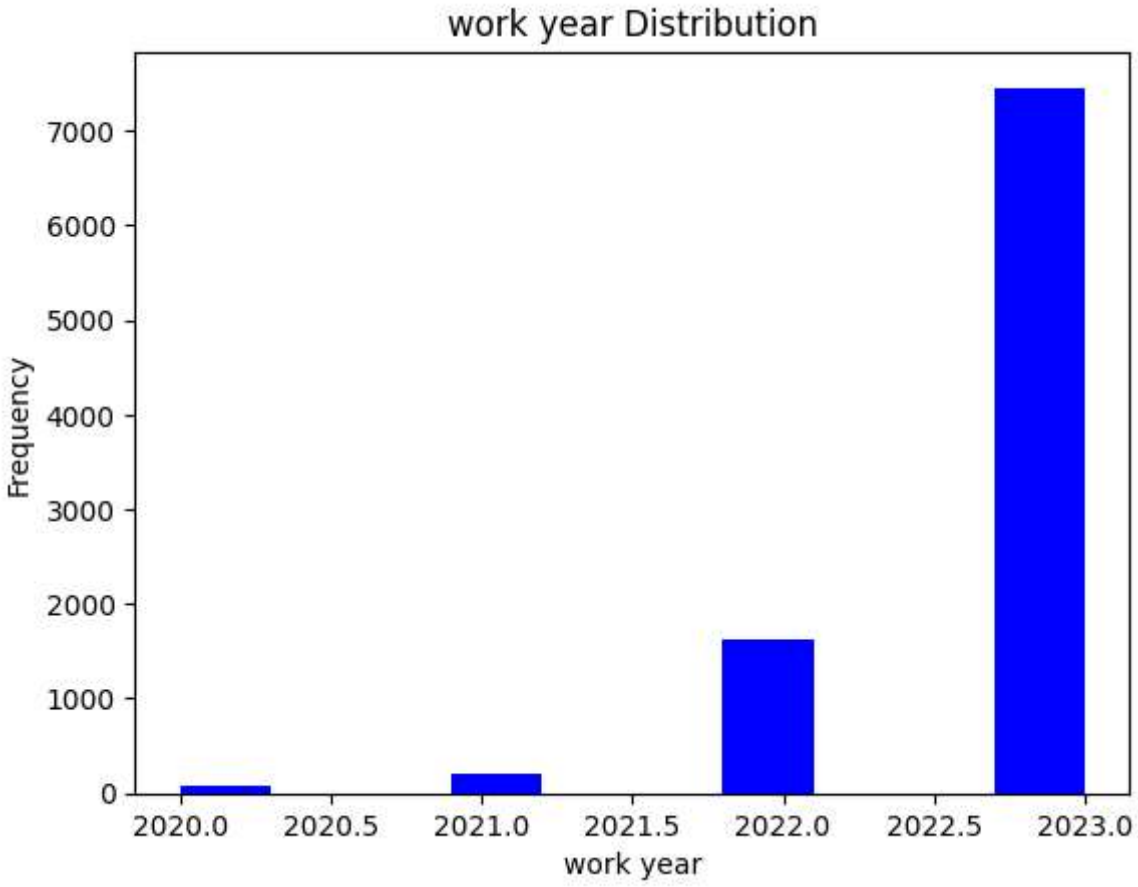
```
Data Collection and Sources:

        How was the data collected, and what steps were taken to ensure its accuracy and relevance?

Data has been collected from Kaggle, ChatGPT, and YouTube and after that it is being utilized in the analysis of the

Dataset Questions:
1.      Which countries recruits and pays maximum salaries?
```

In [38]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
plt.figure(figsize=(20,10))
salary_by_residence = df.groupby('employee_residence')['salary_in_usd'].median().sort_values(ascending=False)
salary_by_residence.plot(kind='bar', color='gold')
plt.title('Geographical Salary Differences')
plt.xlabel('Country of Residence')
plt.ylabel('Median Salary in USD')
plt.show()
```



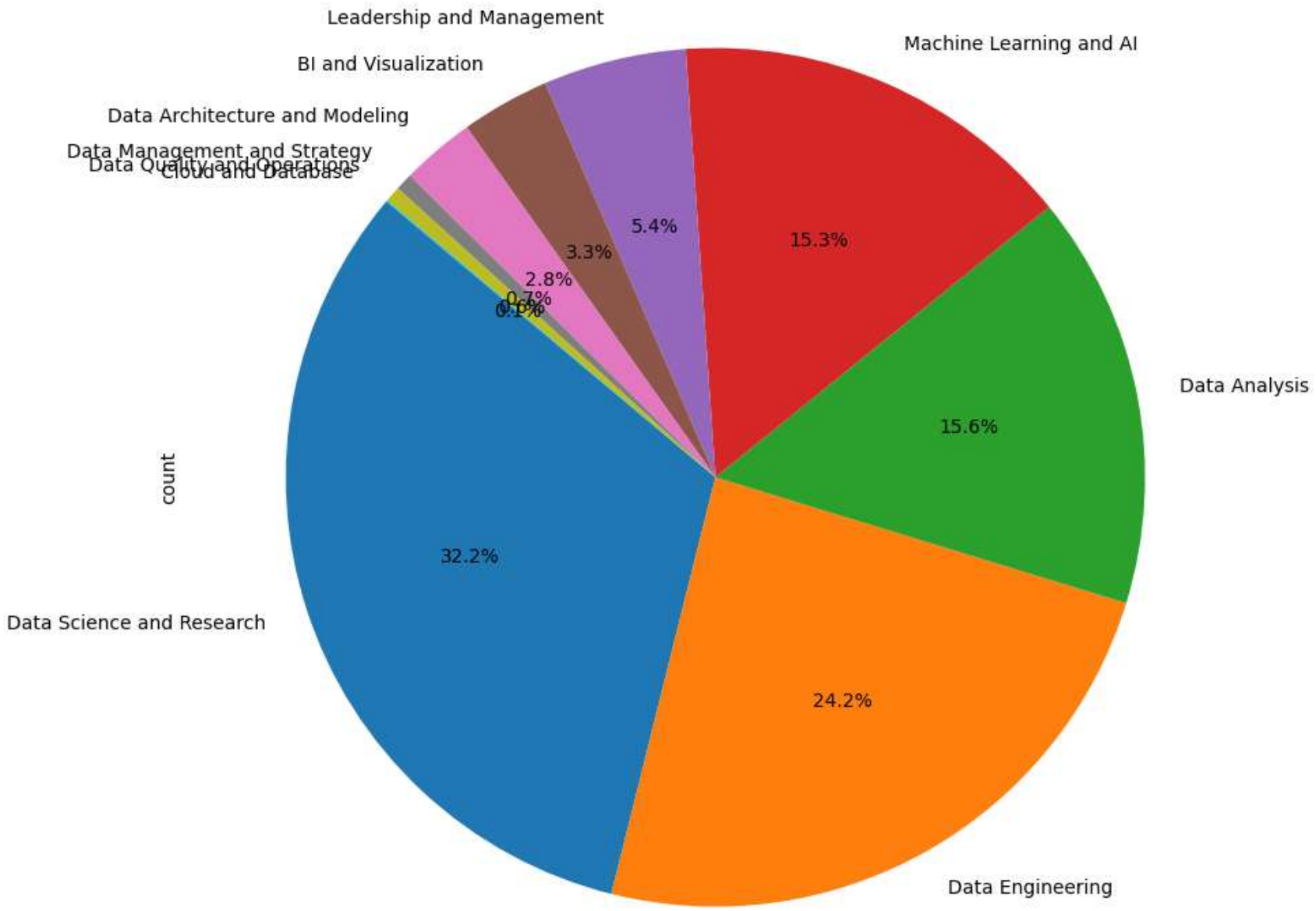
In [ ]:
```
2.      Which year the jobs for data science field is maximum?
```

In [40]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
plt.hist(df['work_year'],bins=10, color='blue')
plt.xlabel('work year')
plt.ylabel('Frequency')
plt.title('work year Distribution')
plt.show()
```



In [ ]:
```
3.      What is the part of data science jobs in all fields of work?
```

In [49]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
plt.figure(figsize=(10,9))
df['job_category'].value_counts().plot(kind='pie',autopct='%1.1f%%',startangle=140);
plt.axis('equal')
plt.show()
```



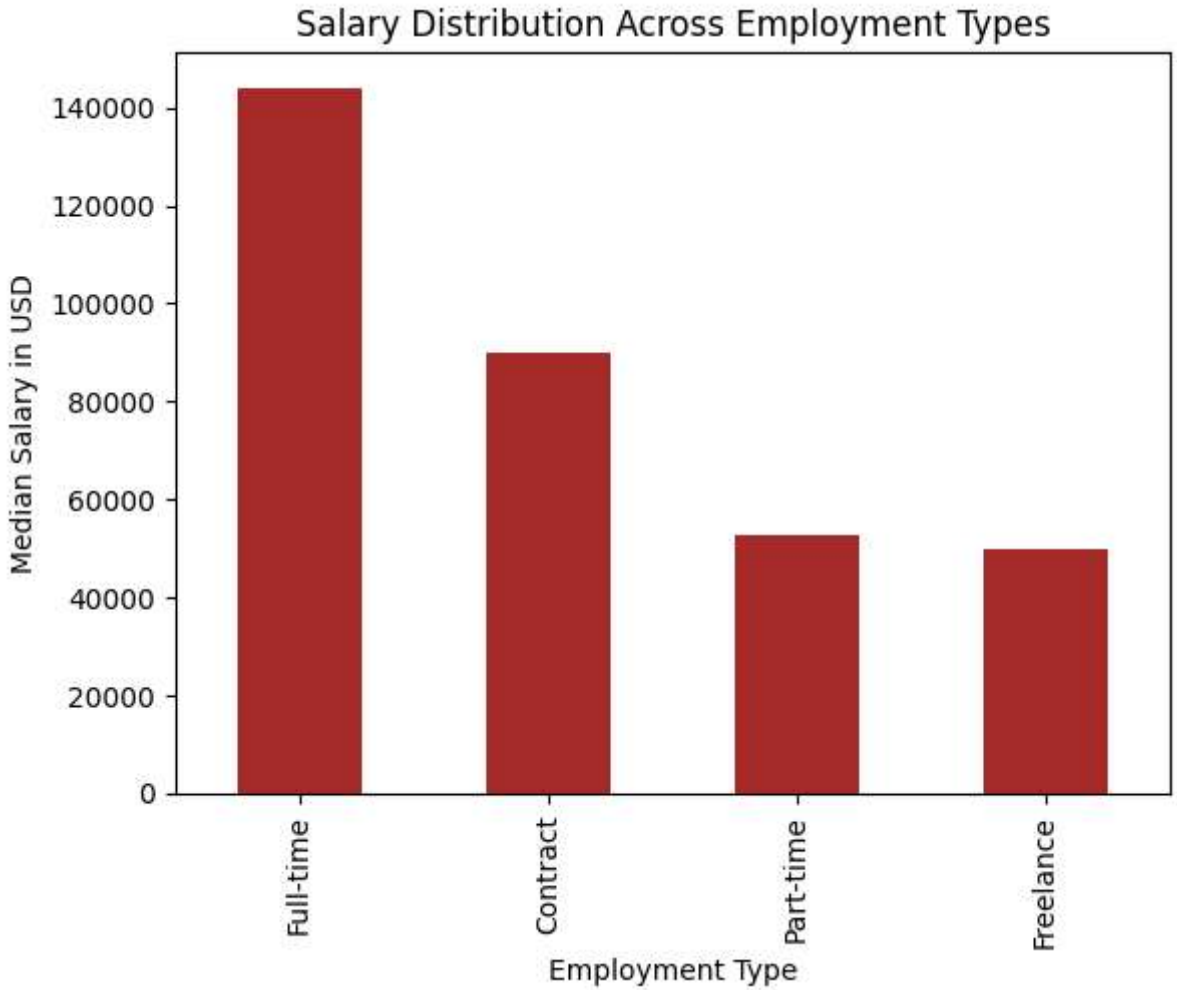
In [ ]:
```
4.      What is the salary distribution based on experience level of employees?
```

In [50]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
```

```
salary_by_experience = df.groupby('experience_level')['salary_in_usd'].median().sort_values(ascending=False)
salary_by_experience.plot(kind='bar', color='yellow')
plt.title('Salary Distribution Across Experience Levels')
plt.xlabel('Experience Level')
plt.ylabel('Median Salary in USD')
plt.show()
```

In [ ]:
```
5.      What is the effect of employee type on salary structure?
```

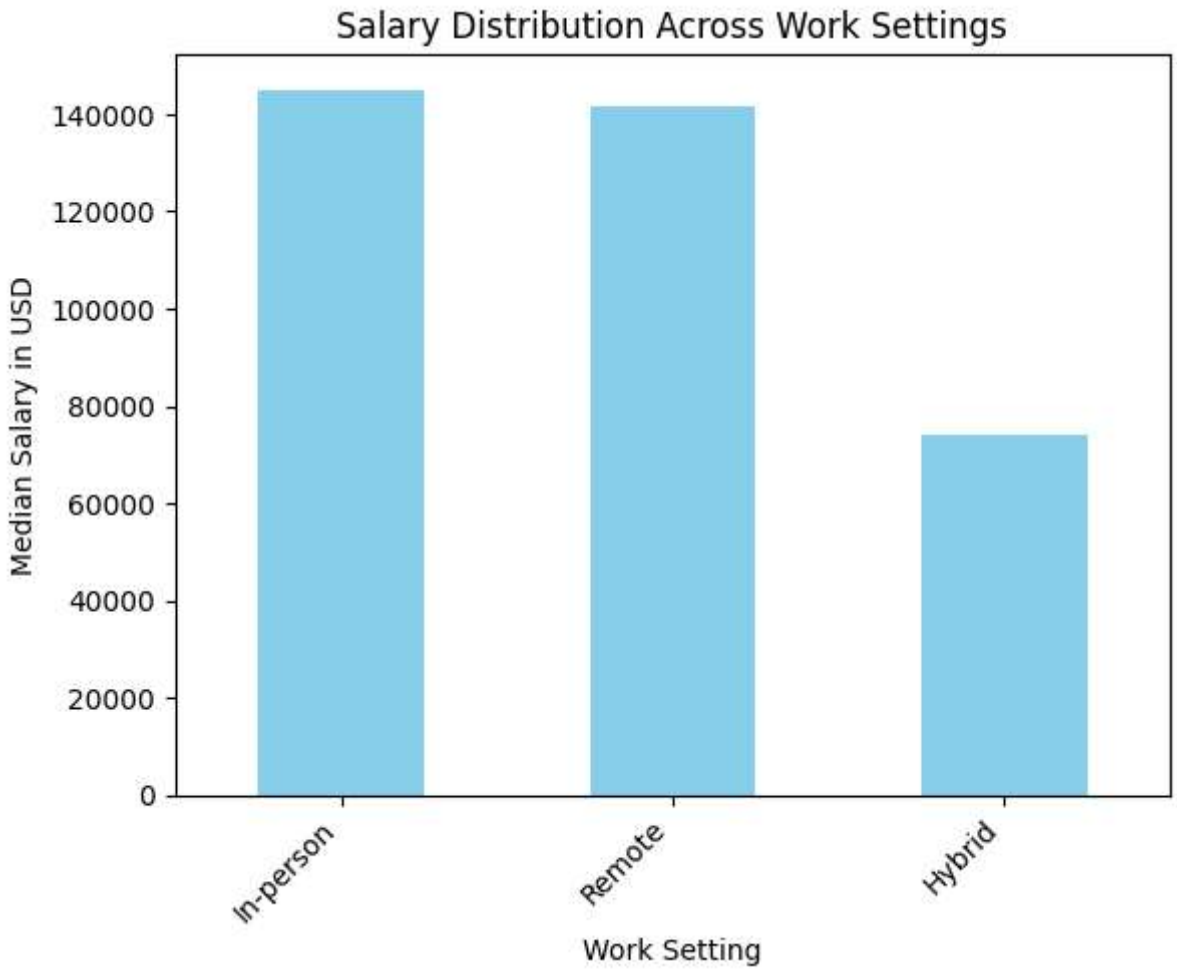
In [51]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
salary_by_employment_type = df.groupby('employment_type')['salary_in_usd'].median().sort_values(ascending=False)
salary_by_employment_type.plot(kind='bar', color='brown')
plt.title('Salary Distribution Across Employment Types')
plt.xlabel('Employment Type')
plt.ylabel('Median Salary in USD')
plt.show()
```



In [ ]:
```
Analysis result:
```

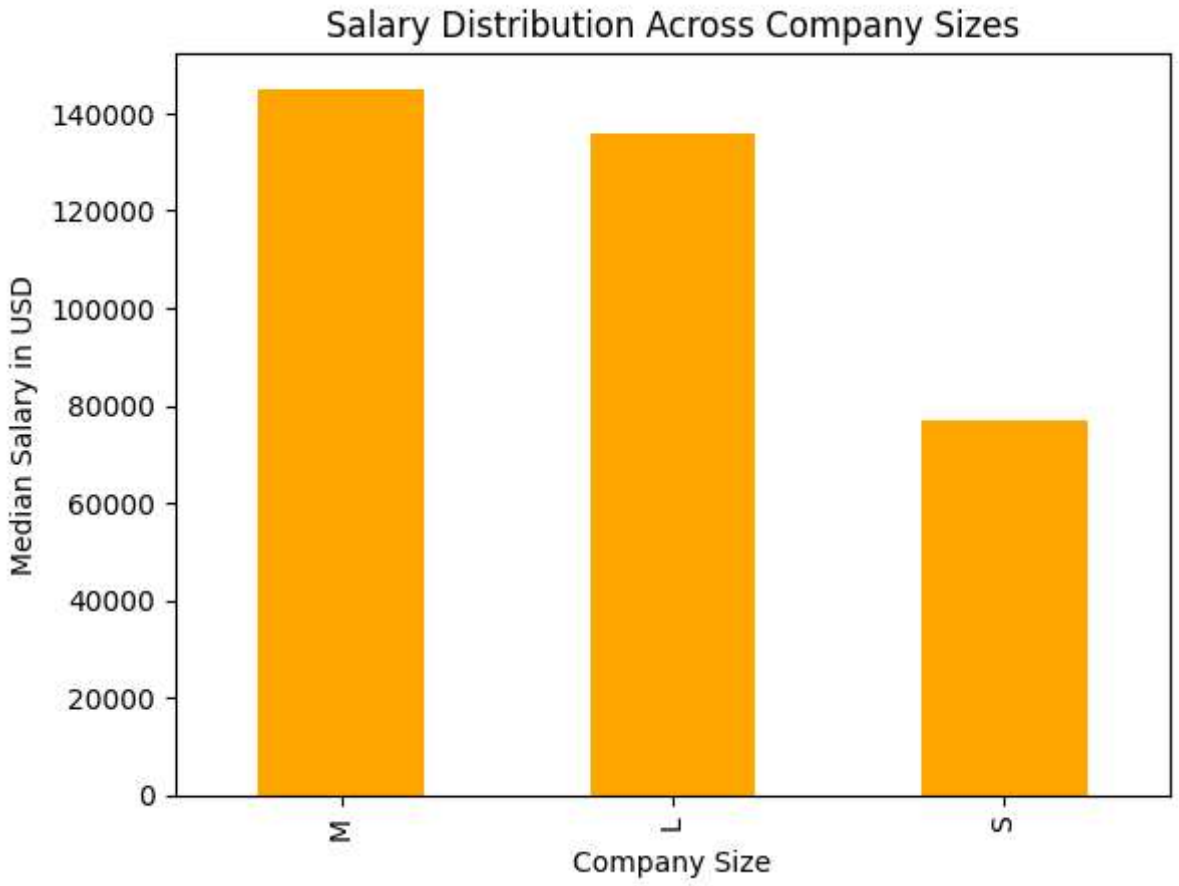
```
What is impact of work setting on salary levels?
```

In [58]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
salary_by_work_setting = df.groupby('work_setting')['salary_in_usd'].median().sort_values(ascending=False)
salary_by_work_setting.plot(kind='bar', color='skyblue')
plt.title('Salary Distribution Across Work Settings')
plt.xlabel('Work Setting')
plt.ylabel('Median Salary in USD')
plt.xticks(rotation=45,ha='right')
plt.show()
```



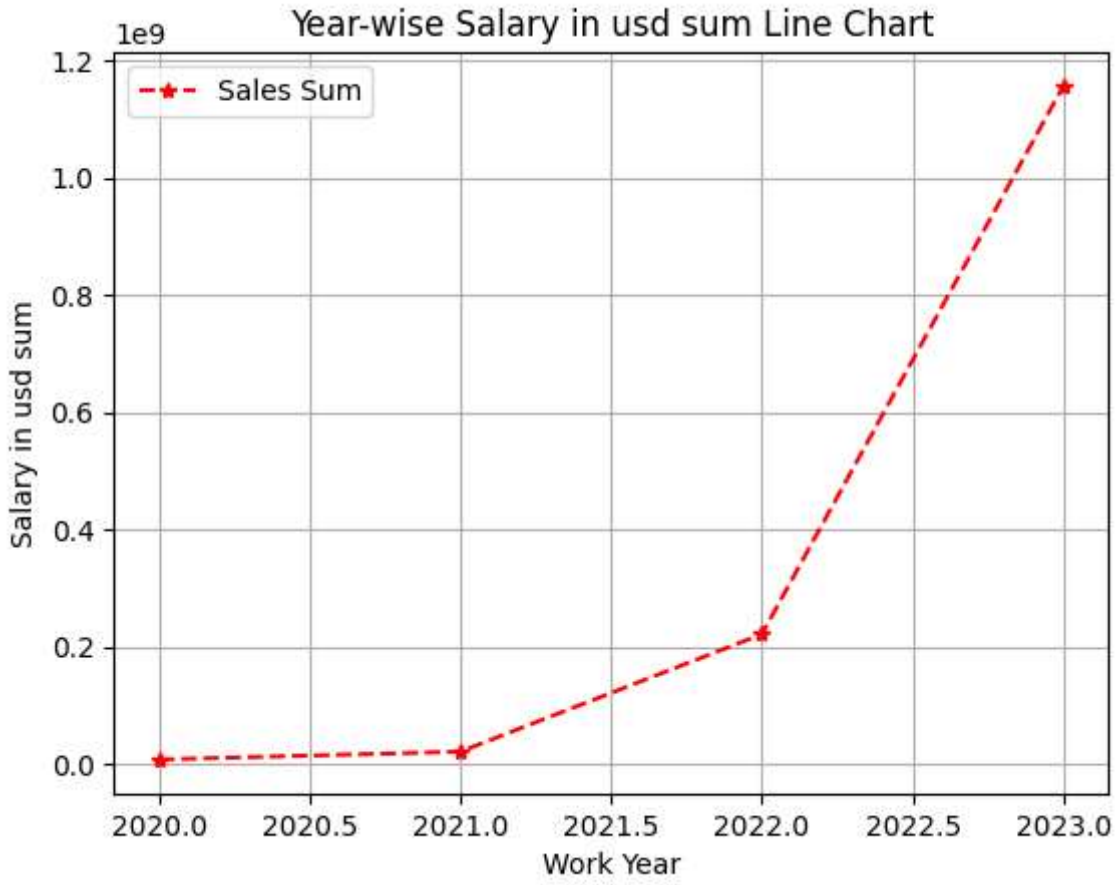
In [ ]:
```
What is the relationship between company size and the salary distribution?
```

In [59]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
salary_by_company_size = df.groupby('company_size')['salary_in_usd'].median().sort_values(ascending=False)
salary_by_company_size.plot(kind='bar', color='orange')
plt.title('Salary Distribution Across Company Sizes')
plt.xlabel('Company Size')
plt.ylabel('Median Salary in USD')
plt.show()
```



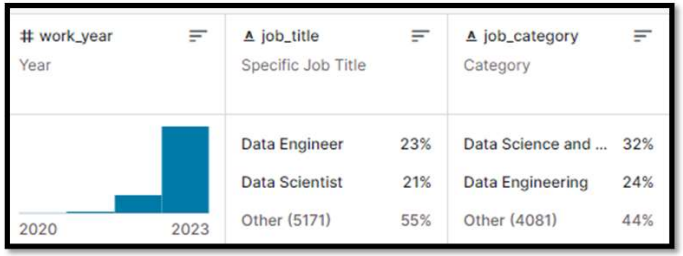
In [ ]:
```
How the salary trend changes with recent  years ?
```

In [60]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
yearly_salary = df.groupby('work_year')['salary_in_usd'].sum().reset_index()
plt.plot(yearly_salary['work_year'], yearly_salary['salary_in_usd'], marker='*', linestyle='--',color='r', label='Sal
plt.xlabel('Work Year')
plt.ylabel('Salary in usd sum')
plt.title('Year-wise Salary in usd sum Line Chart')
plt.grid(True)
plt.legend()
plt.show()
```

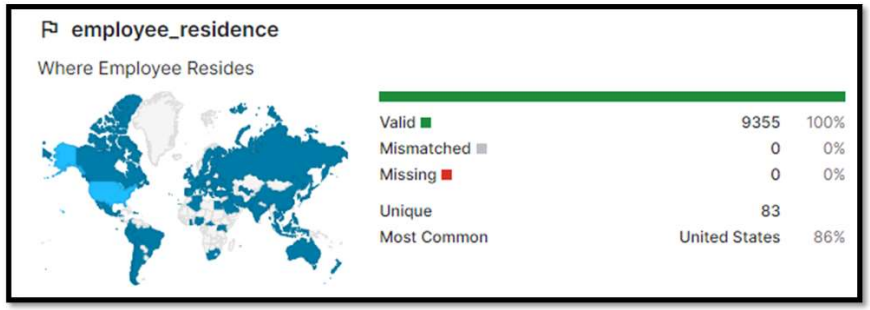


In [ ]:
```
DATA VISUALIZATION:
```

Work year showing different job category

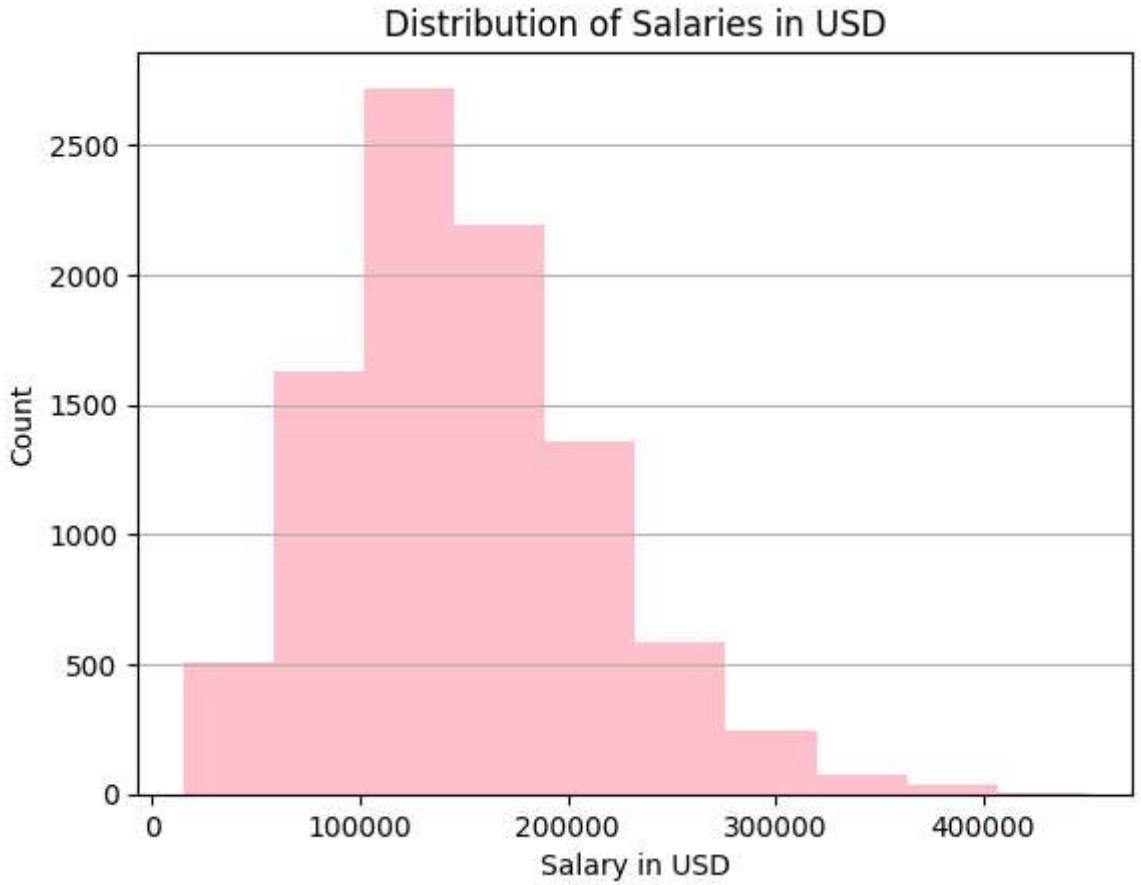


In [ ]: Geographical Analysis:



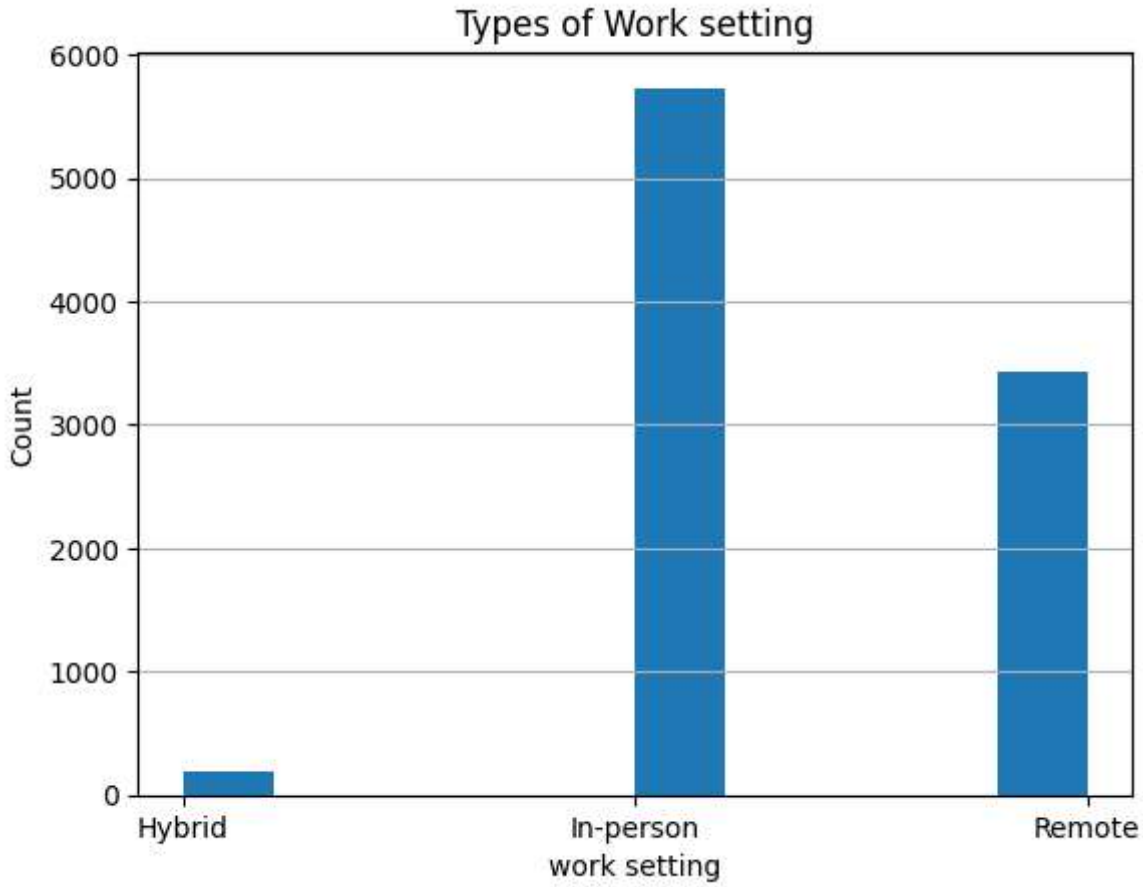
In [ ]:
```
 Job distribution in a graph is visualized.

Salary Trends:
```

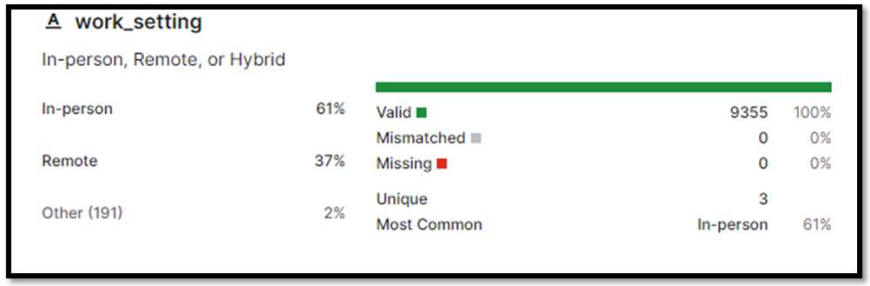
In [63]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
plt.hist(df['salary_in_usd'],bins=10,color='pink')
plt.xlabel('Salary in USD')
plt.ylabel('Count')
plt.title('Distribution of Salaries in USD')
plt.grid(axis='y')
plt.show()
```



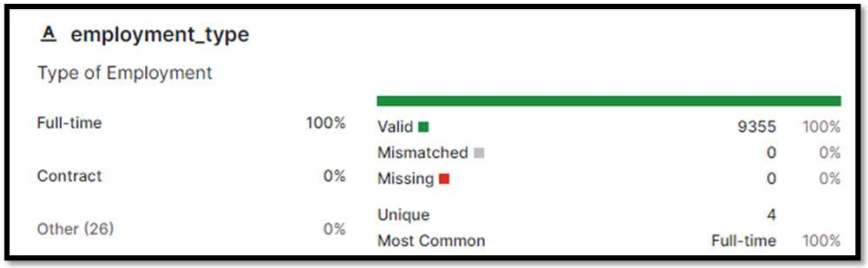
In [ ]:
```
Work Setting
```

In [69]:
```
csv_file_path = 'jobs in data science.csv'
df = pd.read_csv(csv_file_path)
plt.hist(df['work_setting'],bins=10)
plt.xlabel('work setting')
plt.ylabel('Count')
plt.title('Types of Work setting')
plt.grid(axis='y')
plt.show()
```


Types of Work setting
6000
5000
4000
3000
2000
1000
0
Count
Hybrid
In-person
Remote
work setting



In [ ]:
```
Employment type:
```



In [ ]:
```
CONCLUSION:

The demand for data science talent continues to outpace supply, leading to a competitive job market where organizatic
technical proficiency and domain-specific knowledge. As businesses increasingly rely on data to drive decision-making
integral across sectors like finance, healthcare, retail, and technology.
In conclusion, the rise of data science jobs represents a fundamental shift in how businesses harness information to
evolution of these roles reflects a growing recognition of the value of data-driven insights and the pivotal role pla
extracting meaningful information from vast datasets to drive innovation and strategic decision-making.

FUTURISTIC APPROACH:
The field of data analytics is experiencing a rapid expansion, with a strong demand for skilled professionals who car
vast amounts of data.
As we progress into 2023, a number of emerging trends are reshaping the landscape of data analytics careers. Hence, c
arena of jobs and careers in both remote and foreign areas.
```