NAME: Yuan Chen

DATE: DECEMBER - 2024
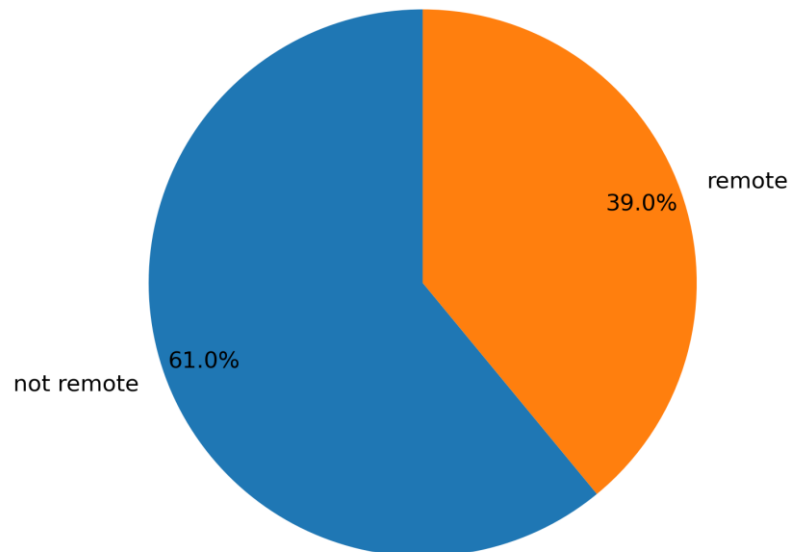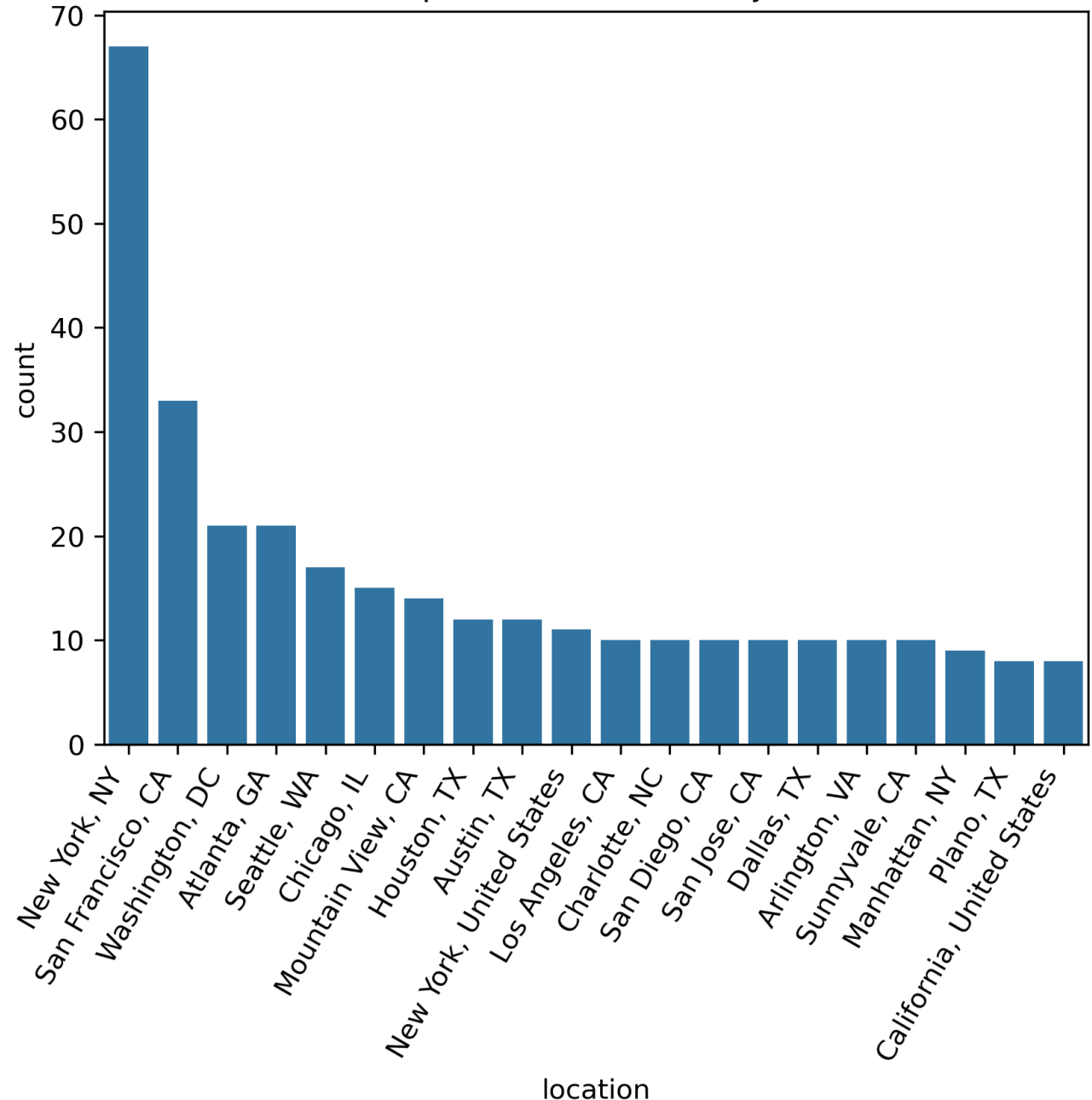
JOB POSTING ANALYSIS SUMMARY

TOP JOB LOCATIONS

❑ There is a good amount of remote data job, which consist of 39% of the total job postings.

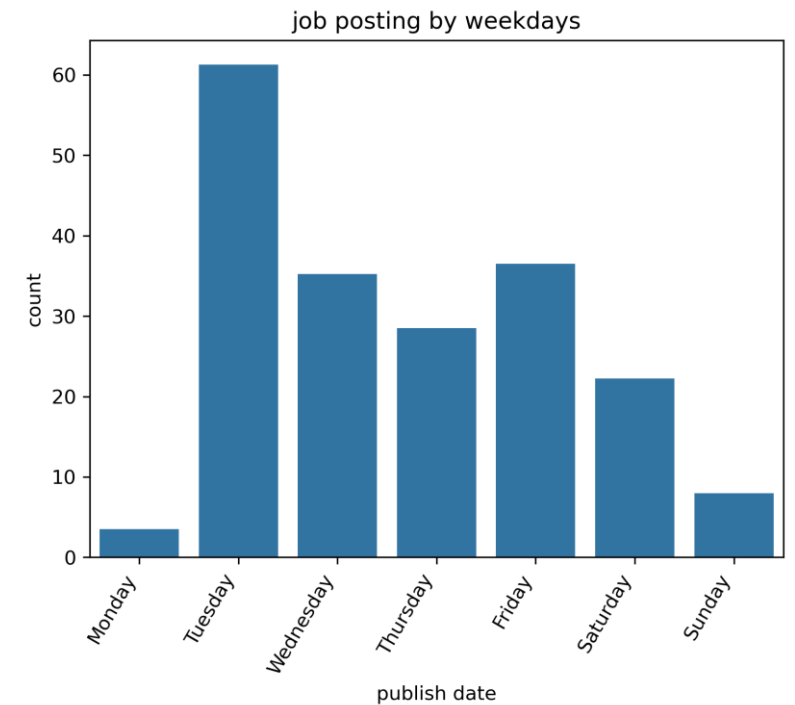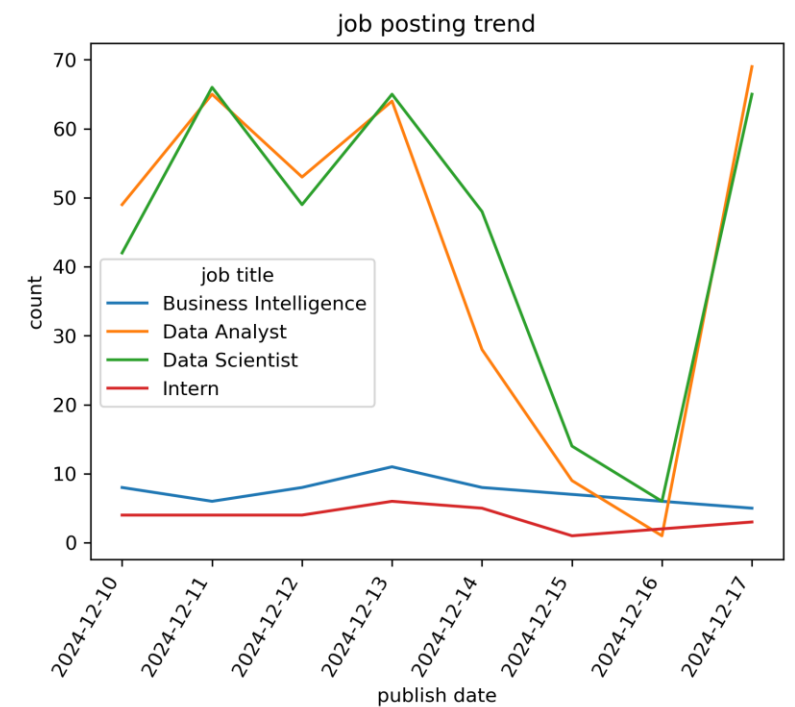❑ For on-site jobs, New York City has the highest job openings, followed by San Francisco, and Washington DC.

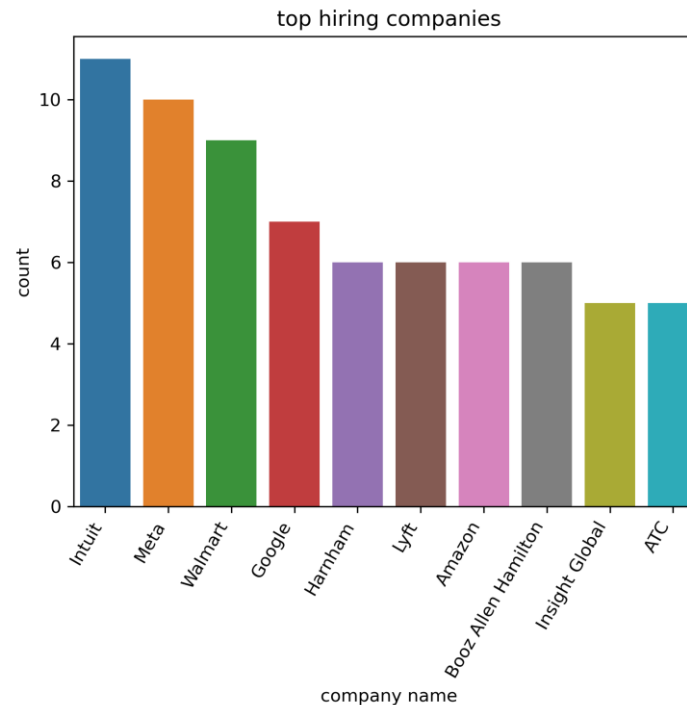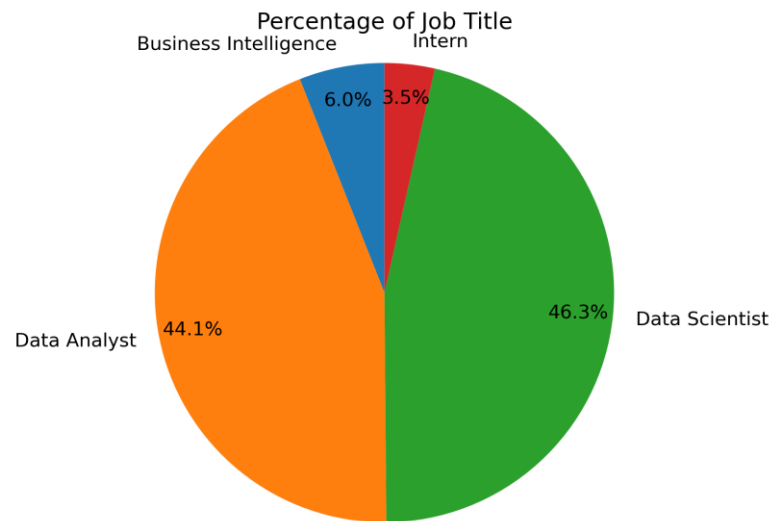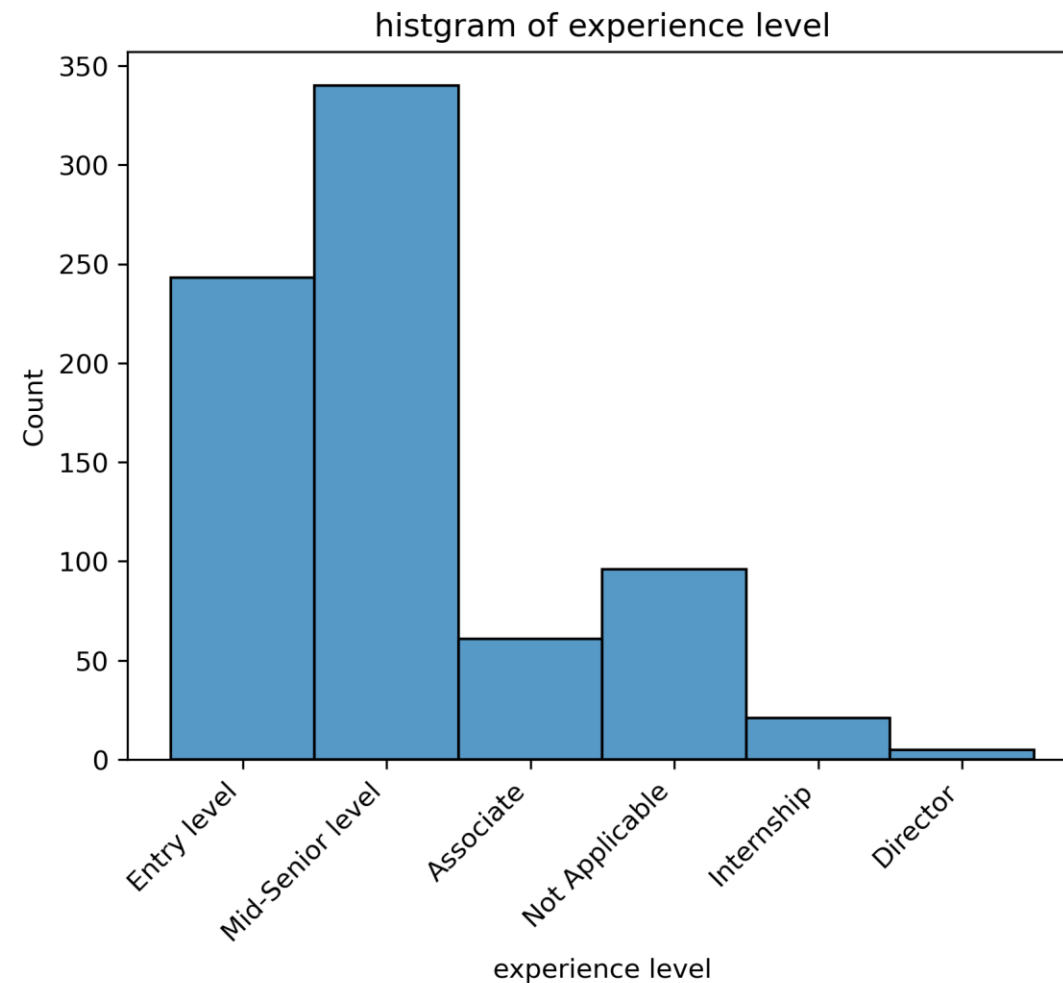Percentage of Remote Positions

top locations for data job

JOB OPPORTUNITY

- ❑ Total 766 unique data job found in the past week
- ❑ >90% of the job postings are consisted of Data Analyst and Data Scientist, and the two jobs are about 1:1 ratio
- ❑ Top hiring companies are Intuit, Meta, Walmart
- ❑ There is not enough data to see long turn trend
- ❑ Interestingly, job postings varies a lot across the weekdays, they peak on Tuesday and gradually decrease to the lowest point on Monday

job posting trend

Percentage of Job Title

top hiring companies

job posting by weekdays

EXPERIENCE

histgram of required experience years

histgram of experience level
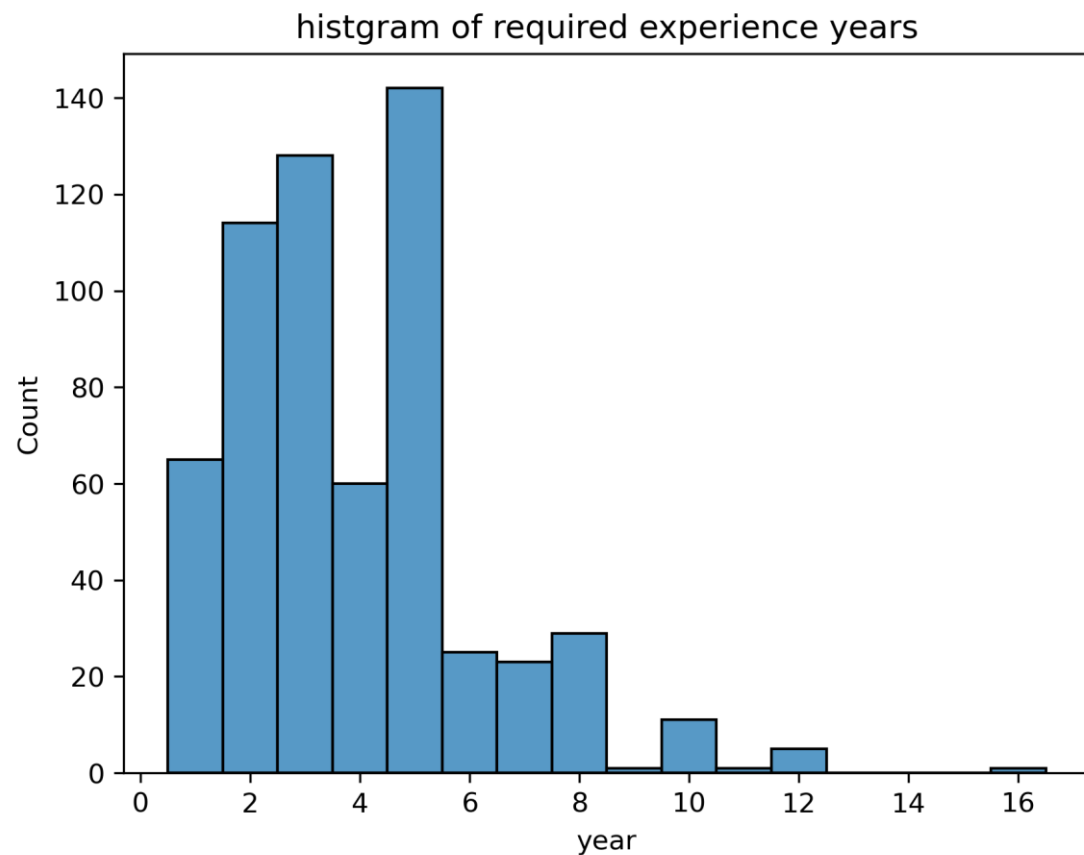
❑ The majority of jobs are **Entry level** and **Mid-Senior Level**

❑ They usually require **1-5 years** of experience

SALARY DISTRIBUTION

These graph and table summarizes the salary ranges and averages. It highlights the potential earning opportunities by comparing salaries. The avg salary is $130K while the highest can be up to $300K.

Table. salary stats for different job titles

	Hourly($)	Yearly($)
Mean	54	137813
Std	23	50072
Min	17	35040
25%	37	100918
50%	50	132500
75%	65	169150
max	130	300000

hourly salary distribution

yearly salary distribution

hourly salary distribution

yearly salary distribution
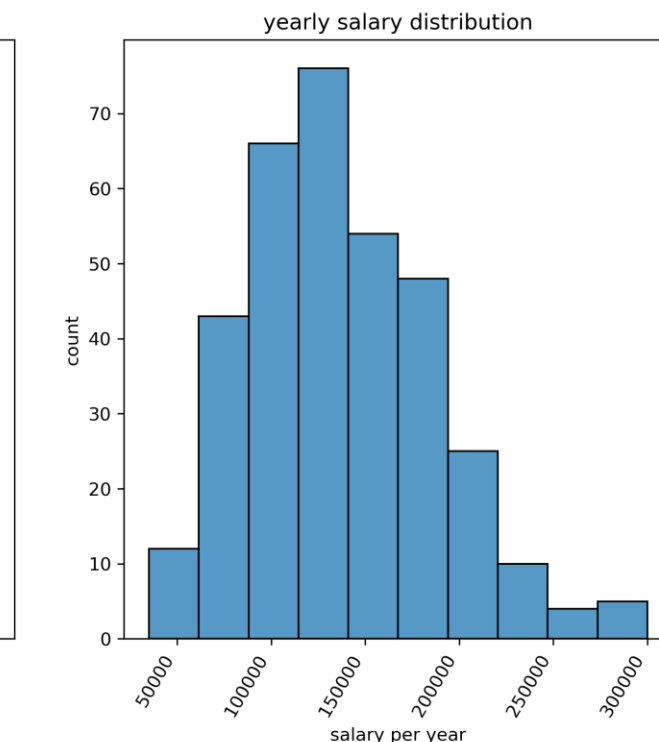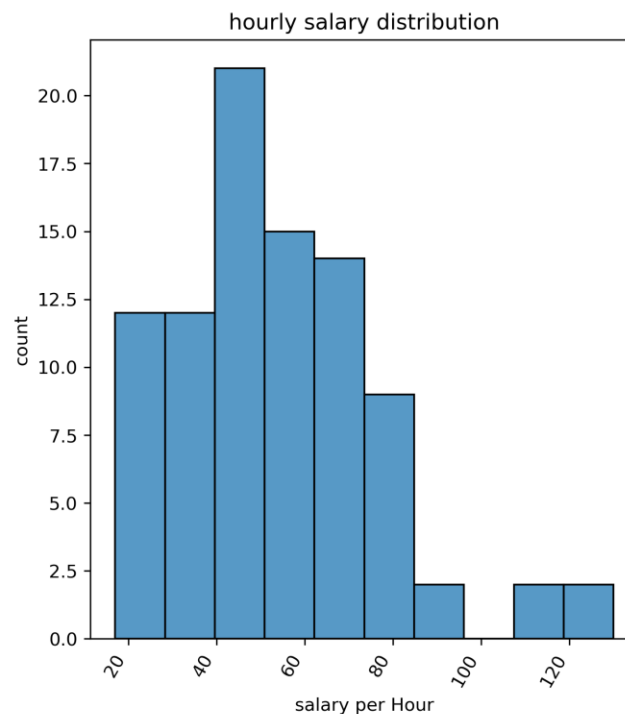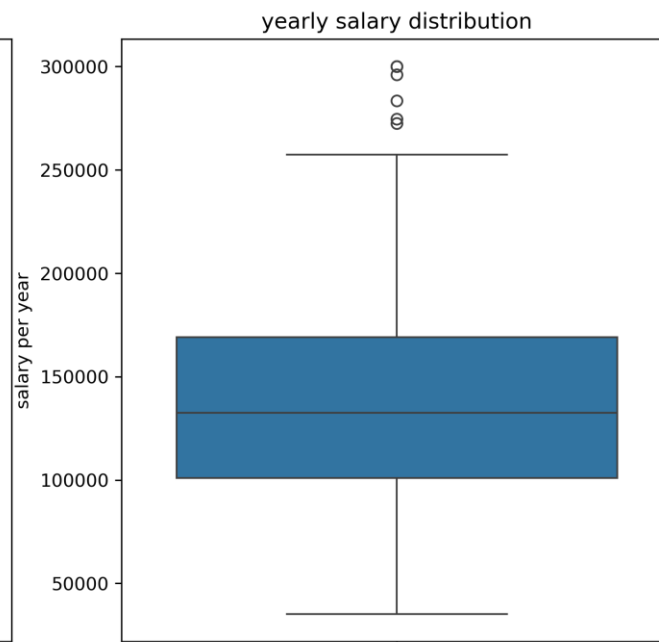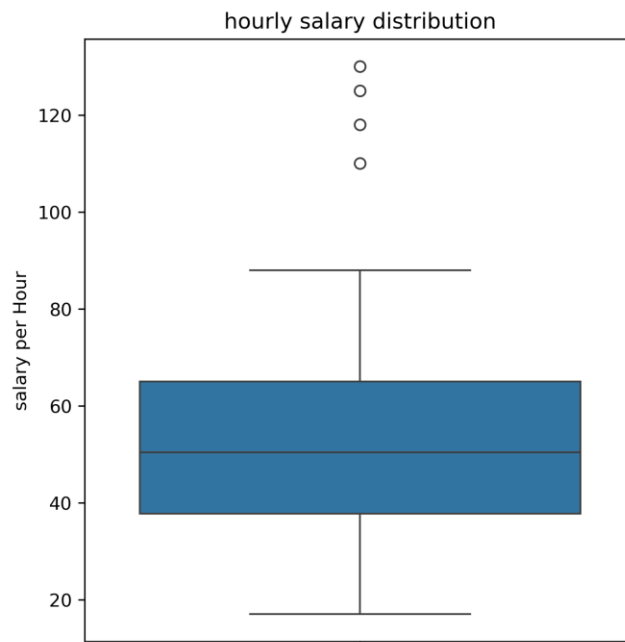
These graph and table summarizes how salary differ at different position and companies. Data Scientists got the highest pay while Analysts and Business Intelligence have lower and similar pay.

Table. salary stats for different job titles

|	Intern	Data Analyst	Data Scientist	Business Intelligence
Mean	84680	108173	160419	94907
Std	48522	39143	45263	22388
Min	35040	40000	63000	66500
25%	61020	80000	127010	77625
50%	87000	105000	159150	90225
75%	109500	126625	188625	109375
Max	132000	300000	300000	140000
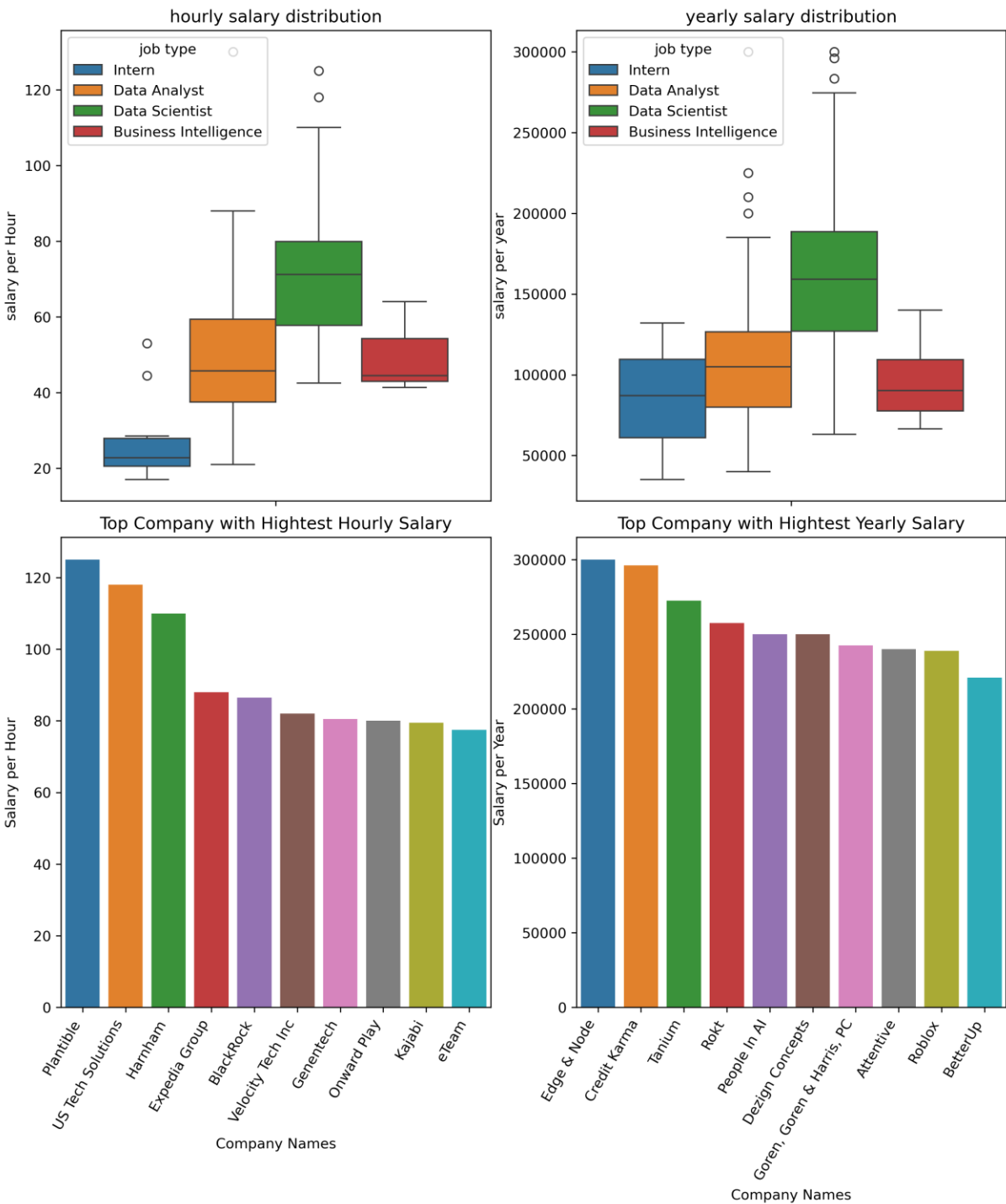
This graph demonstrates the salary
changes overtime in the data analysis
related industry. Due to the limited quantity
of data, the trend is not clear.
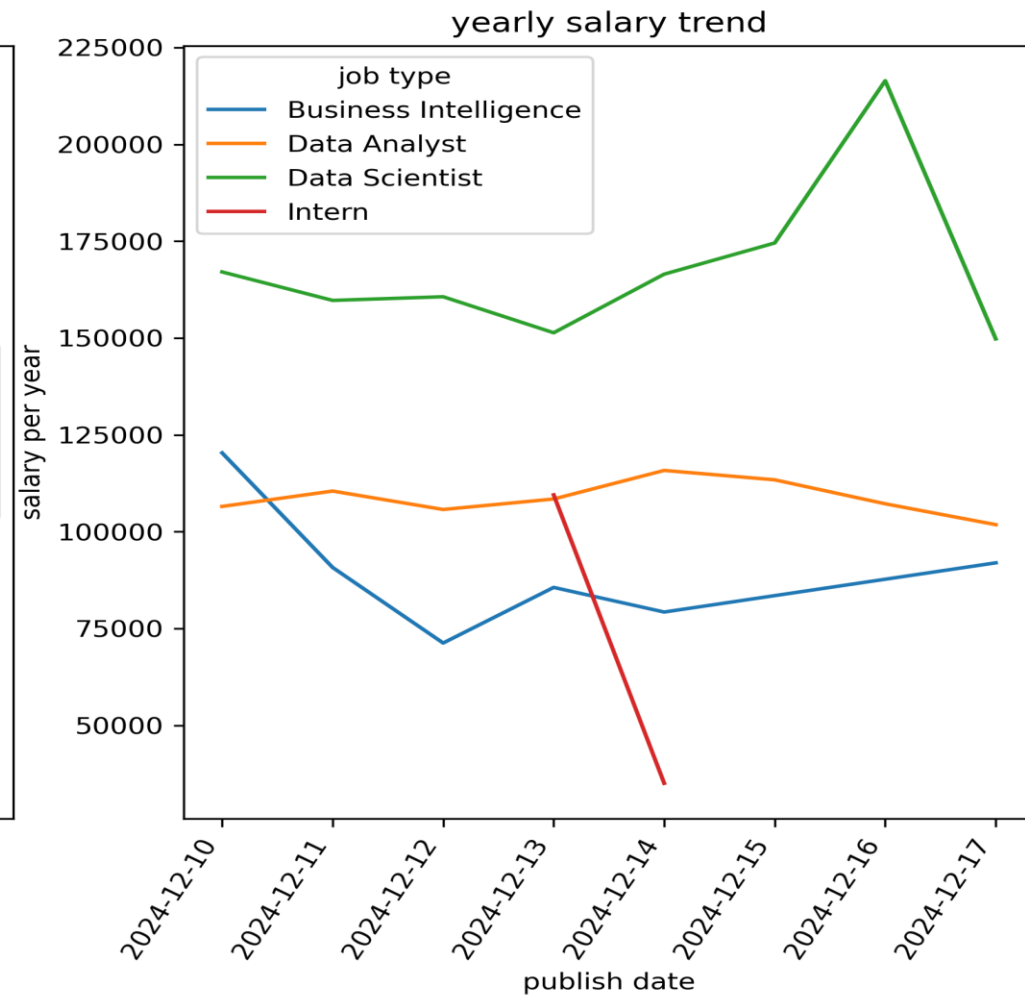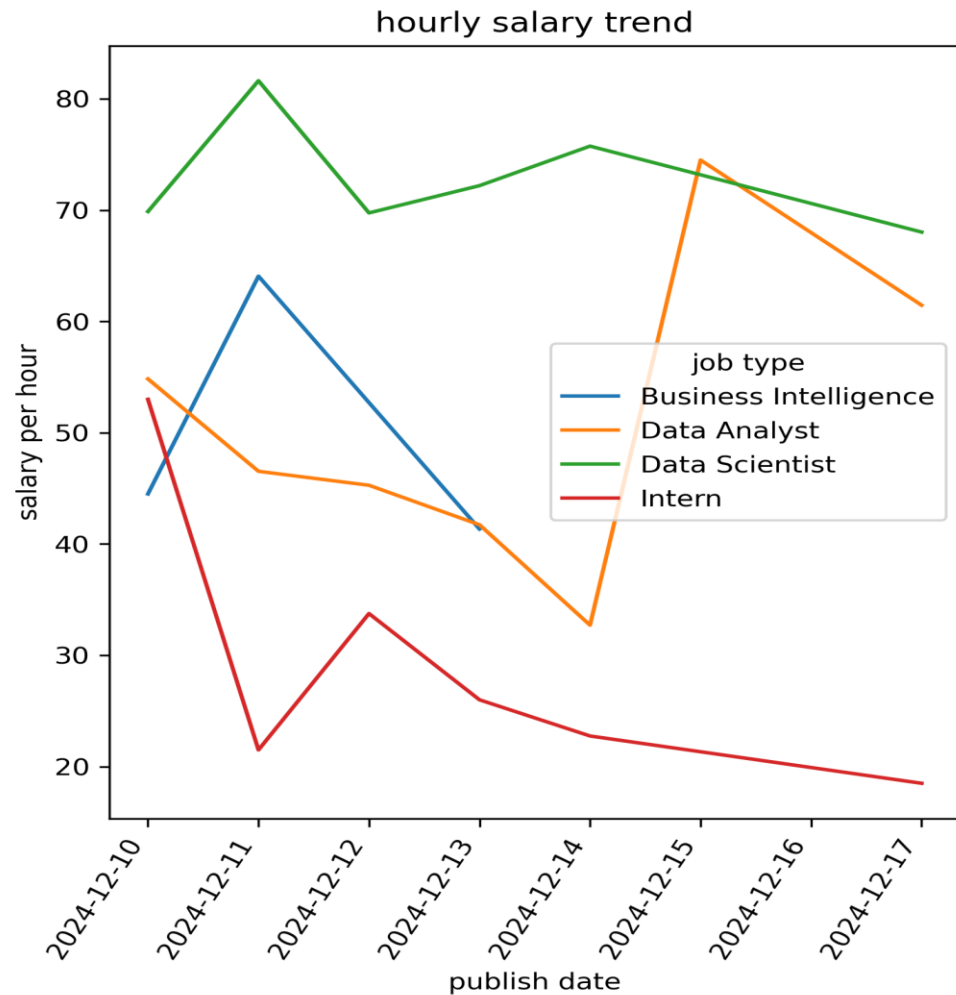
TOP SKILLS IN DEMAND

Other than data analysis, the following skills are in high demand:

- SQL
- PYTHON
- COMMUNICATION
- DATA VISUALIZATION
- MACHINE LEARNING
- R
- PROBLEM SOLVING
- EXCEL
- POWER BI
- TABLEAU
- STATISTICS
- DATA MODELING
- DATA MANAGEMENT
- PROJECT MANAGEMENT
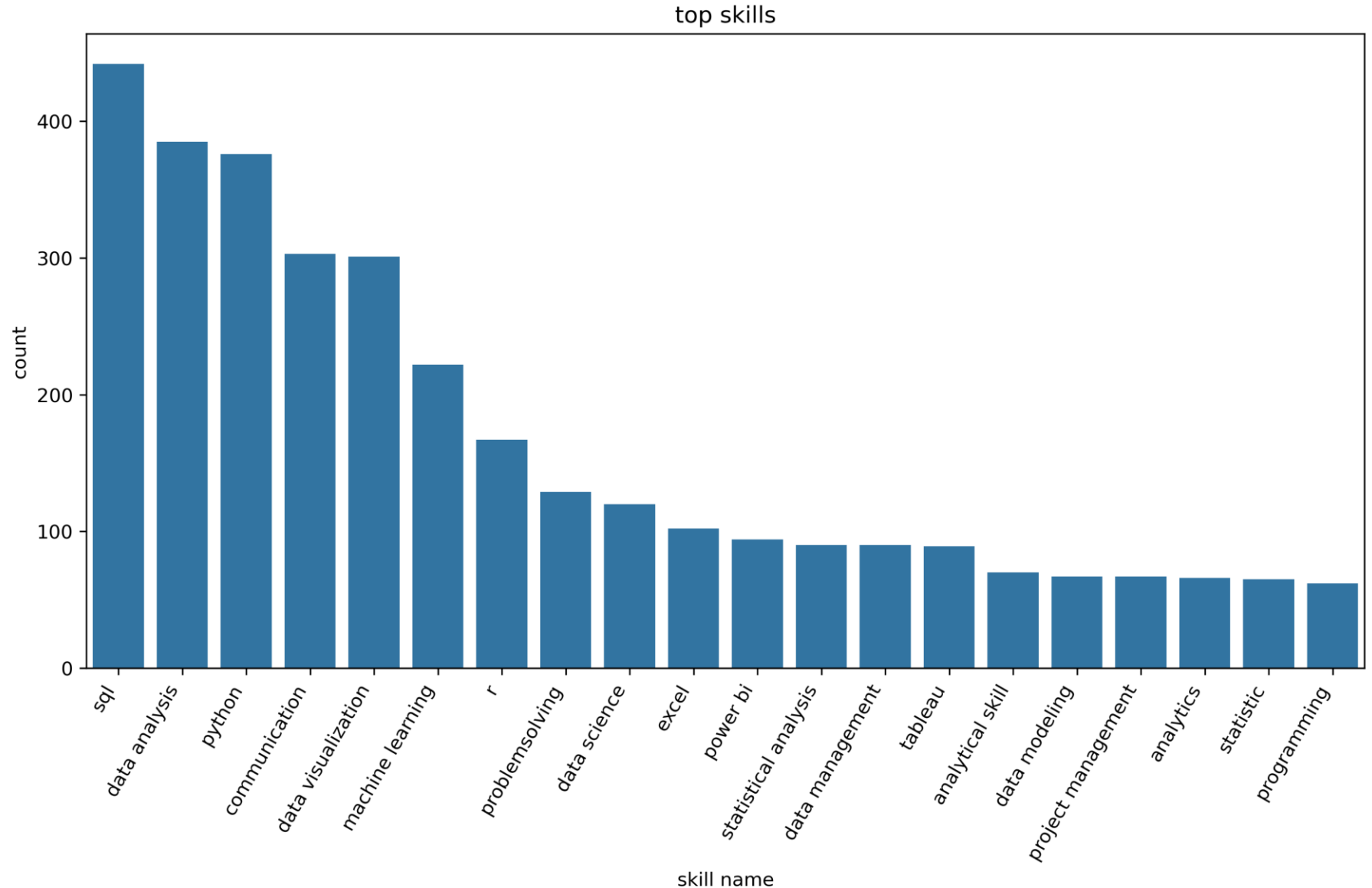
top skills

Top skills by job title:

The required skills are almost the same across different job titles. However, the order are slightly different. For Analyst and Interns analysis and communication skills become more important than technical skills. Programming skills are lower in the Business Intelligence field. Python and machine learning are top skills in Data Science.
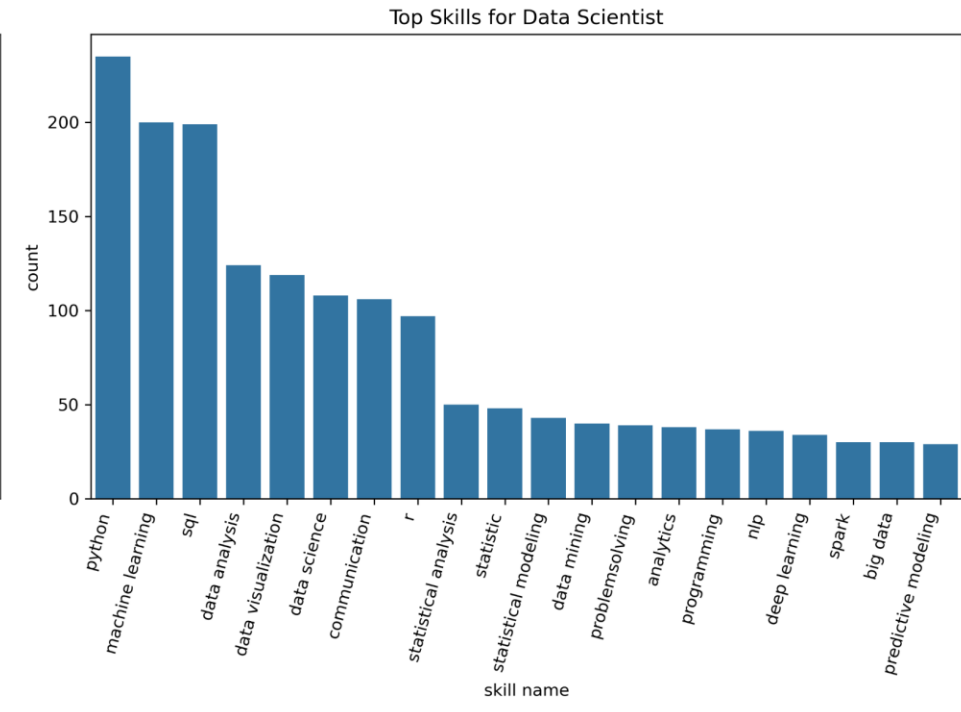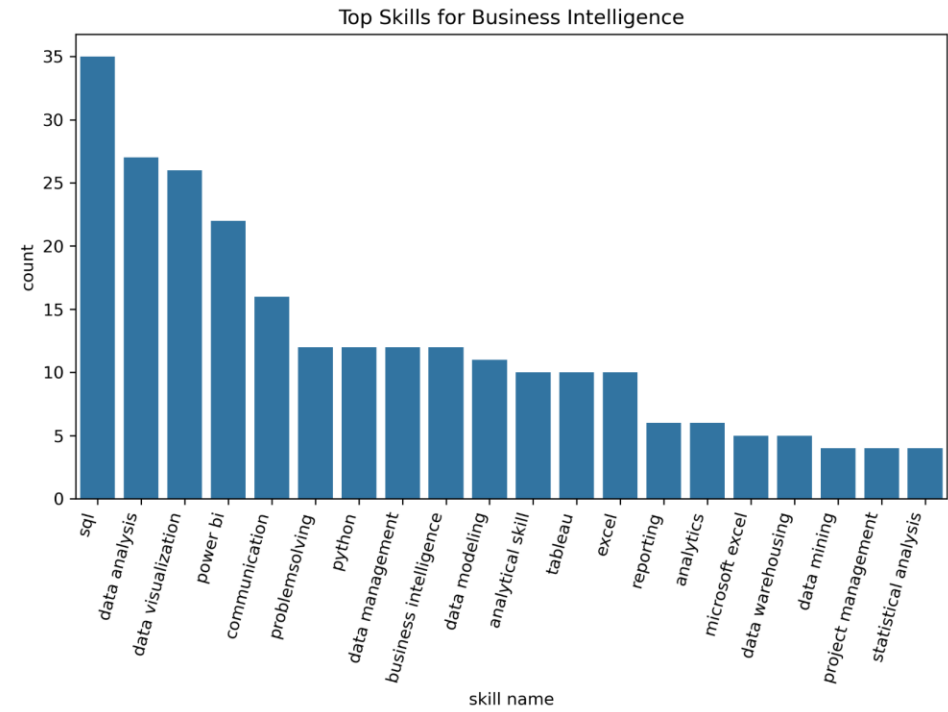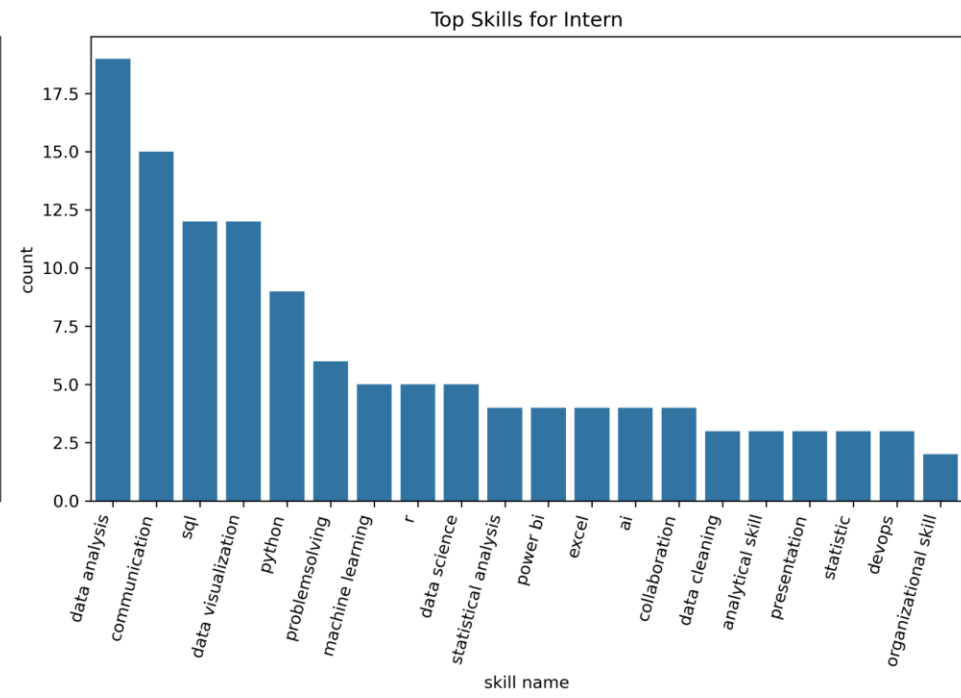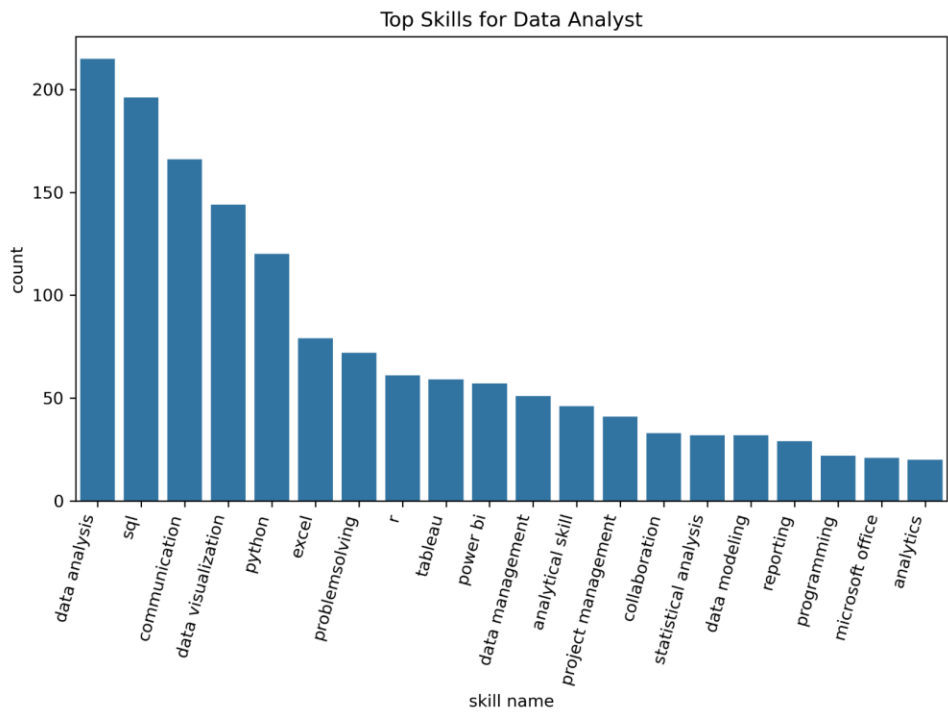
CONCLUSION & INSIGHTS

KEY TAKEAWAYS FROM THE ANALYSIS

The analysis provides valuable insights into trends in job postings, location, salary expectations and skill requirements.

✓ Total 766 job openings in one week

✓ 39% jobs are remote, and on-site opportunities concentrated in NYC, SF and DC

✓ Data Analyst and Scientist are good paying jobs with average salary of $108K and $160K, respectively

✓ Many jobs require some experience, ranging from 1 to 5 years.

✓ Top skills in demand are Python, R, SQL, Communication, Data Visualization and ML

Future Work

▪ More data should be collected to reveal long term trend in the industry

▪ Explore more up to date AI tools to help improve the data extraction

▪ Collect user feedback for improvement