

## ***THE FUTURE OF WORK: THE DATA ANALYSIS ON GLASSDOOR JOBS***

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# ***THE FUTURE OF WORK: THE DATA ANALYSIS ON GLASSDOOR JOBS***

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## **1 . INTRODUCTION :**

### **1.1 OVERVIEW:**

Job analysis is a systematic procedure to analyse the requirements for the job role and job profile. Glassdoor is a website and online platform that provides information about jobs, salaries, and companies. Job analysis is a systematic approach to defining the job role, description, requirements, responsibilities, evaluation, etc. It helps in finding out the required level of education, skills, knowledge, training, etc for the job position. It also depicts the job worth i.e. measurable effectiveness of the job and contribution of job to the organization. Thus, it effectively contributes to setting up the compensation package for the job position.

Lack of analysis of Glassdoor jobs can result in limited understanding of job market trends, difficulty in finding relevant job opportunities, inability to attract and retain top talent, and lack of insight into company branding and reputation.

### **1.2 PURPOSE:**

The purpose of this project is to conduct an analysis of Glassdoor job postings to gain insights into current and emerging job market trends, identify in-demand skills and experience, and understand how employers can improve their employer branding and reputation to attract and retain top talent.

## **2 . LITERATURE SURVEY:**

### **2.1 Existing problem**

- **Workplace Culture:** Complaints about a toxic or unhealthy work environment, lack of work-life balance, or issues with management styles.
- **Compensation and Benefits:** Employees may express dissatisfaction with their salary, bonuses, or benefits packages.
- **Career Growth Opportunities:** Concerns about limited opportunities for career advancement or professional development within the company.
- **Communication:** Issues related to poor communication from management, lack of transparency, or feeling uninformed about important company decisions.
- **Management:** Negative reviews about ineffective or unsupportive management, favoritism, or lack of recognition for good work.

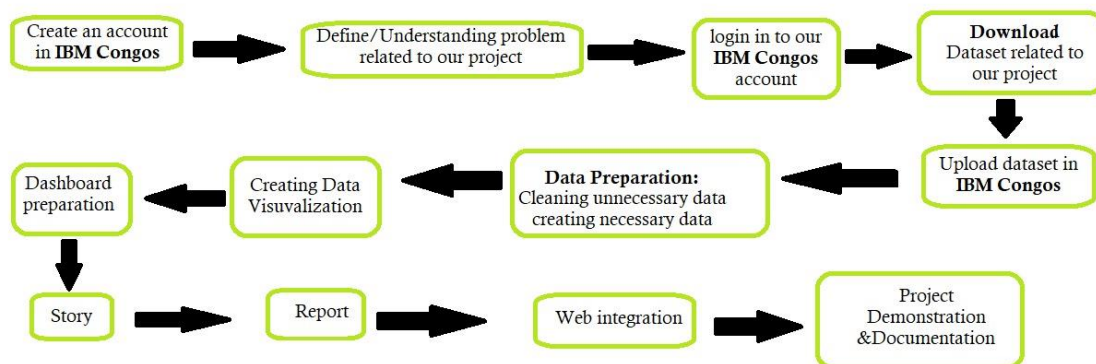
- **Workload and Stress:** High workload, long hours, and stress-related problems may be mentioned.
- **Diversity and Inclusion:** Some reviews may highlight concerns about the lack of diversity and inclusivity in the workplace.

## 2.2 Proposed solution :

- **Anonymous Surveys for Employers:** Offer anonymous surveys for employers to collect feedback from their employees, which can help them understand concerns and make improvements.
- **Enhanced Reporting System:** Implement an enhanced reporting system to quickly identify and handle inappropriate or untruthful reviews, ensuring the platform remains fair and unbiased.
- **Inclusive Workplace Data:** Encourage companies to share data about their diversity and inclusion efforts to promote transparency and accountability.
- **Company Initiatives and Policies:** Include a section where companies can highlight their initiatives, policies, and efforts to address any issues raised in reviews.
- **User Education:** Educate users about the importance of providing constructive and factual feedback to maintain the integrity of the platform.

## 3 .THEORITICAL ANALYSIS :

### 3.1 Block diagram :



### 3.2 HARDWARE USED:

LAPTOP, MOBILE PHONE

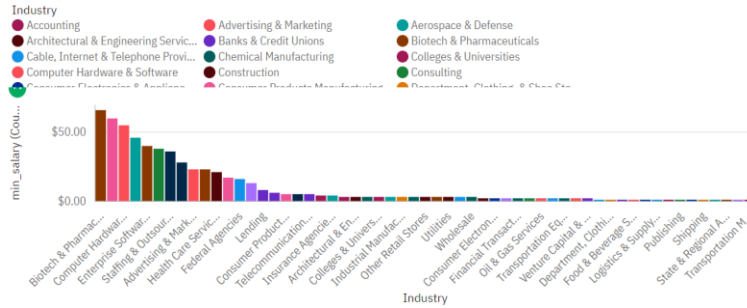
### SOFTWARE USED:

IBM CONGNOS, ANACONDA, PYTHON

## 4 . RESULT :

# VISUALIZATIONS

min\_salary by Industry colored by Industry

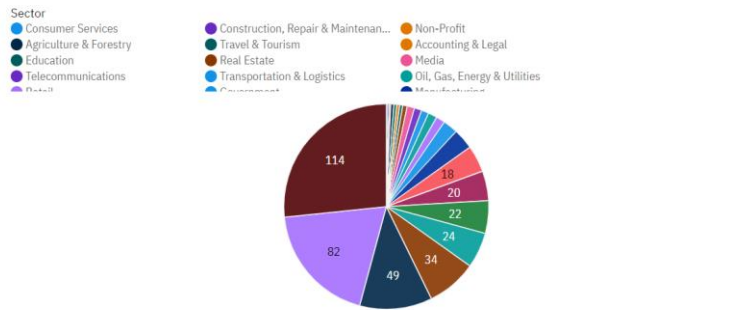


### Details

The total number of results for **min\_salary**, across all **industries**, is 589.

Biotech & Pharmaceuticals (11.2 %), IT Services (10.2 %), and Computer Hardware & Software (9.3 %) are the most frequently occurring categories of **Industry** with a combined count of 181 items with **min\_salary** values (30.7 % of the total).

Company Name by Sector

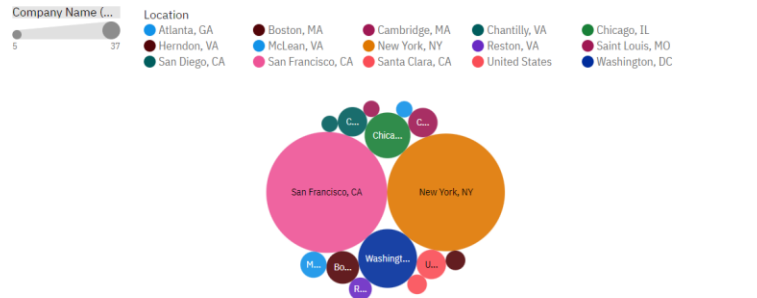


### Details

The total number of results for **Company Name**, across all **sectors**, is 660.

Information Technology is the most frequently occurring category of **Sector** with a count of 178 items with **Company Name** values (27 % of the total).

Location colored by Location sized by Company Name

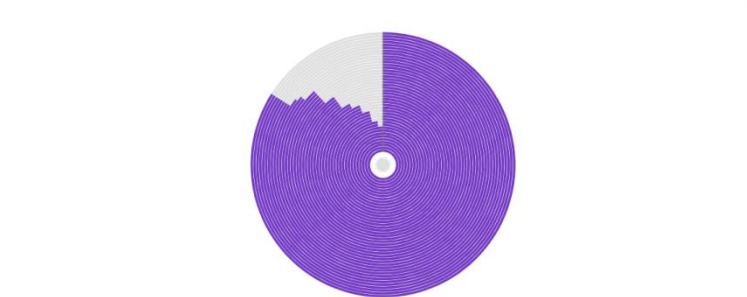


### Details

The overall number of results for **Company Name** is 303.

San Francisco, CA (22.8 %) and New York, NY (16.5 %) are the most frequently occurring categories of **Location** with a combined count of 119 items with **Company Name** values (39.3 % of the total).

Rating by Job Title

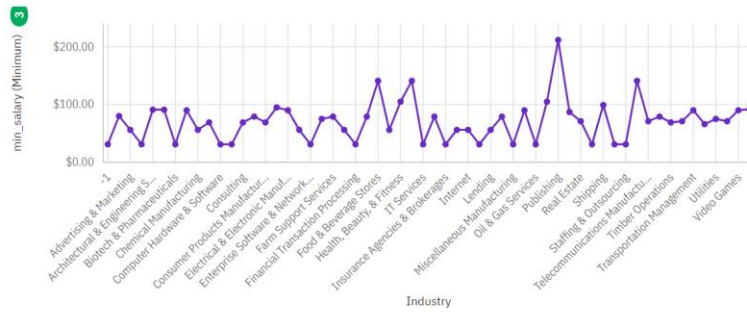


### Details

Over all **job titles**, the average of **Rating** is 4.6.

The average values of **Rating** range from 4.2, occurring when **Job Title** is Computational Behavioral Scientist, to 5, when **Job Title** is Applied AI Scientist / Engineer.

Senior Data Engineer is the most frequently occurring category of **Job Title** with a count of 5 items with **Rating** values (6.8 % of the total).

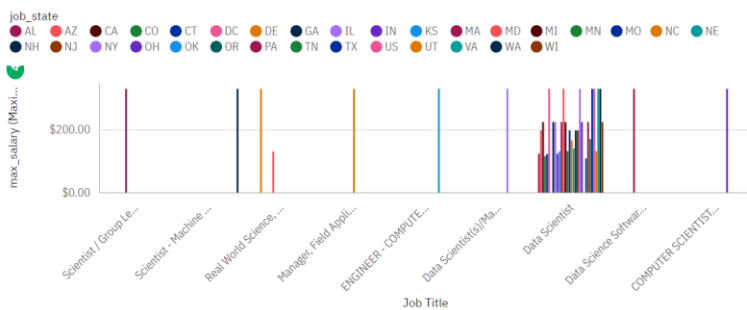
**min\_salary by Industry**


### Details

The total number of results for **min\_salary**, across all **industries**, is 660.

The smallest value of **min\_salary** is 31, occurring when **Industry** is -1.

-1 (10.8 %), Biotech & Pharmaceuticals (10 %), IT Services (9.1 %), and Computer Hardware & Software (8.3 %) are the most frequently occurring categories of **Industry** with a combined count of 252 items with **min\_salary** values (38.2 % of the total).

**max\_salary by Job Title colored by job\_state**


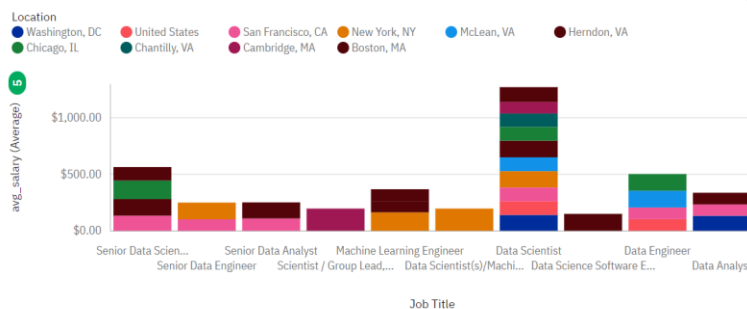
### Details

The total number of results for **max\_salary**, across all **job titles**, is 39.

The largest value of **max\_salary** is 331 and occurs in Data Scientist and DC.

Data Scientist is the most frequently occurring category of **Job Title** with a count of 30 items with **max\_salary** values (76.9 % of the total).

MA is the most frequently occurring category of **job\_state** with a count of 3 items with **max\_salary** values (7.7 % of the total).

**avg\_salary by Job Title colored by Location**


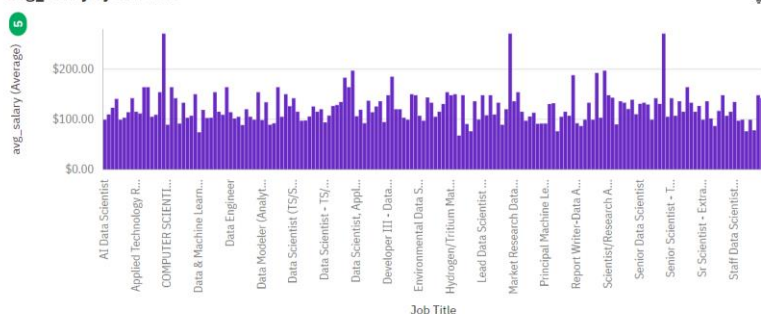
### Details

Over all **job titles** and **locations**, the average of **avg\_salary** is 130.1.

The average values of **avg\_salary** range from 99 to 197.

Data Scientist is the most frequently occurring category of **Job Title** with a count of 157 items with **avg\_salary** values (78.5 % of the total).

San Francisco, CA is the most frequently occurring category of **Location** with a count of 58 items with **avg\_salary** values (29 % of the total).

**avg\_salary by Job Title**


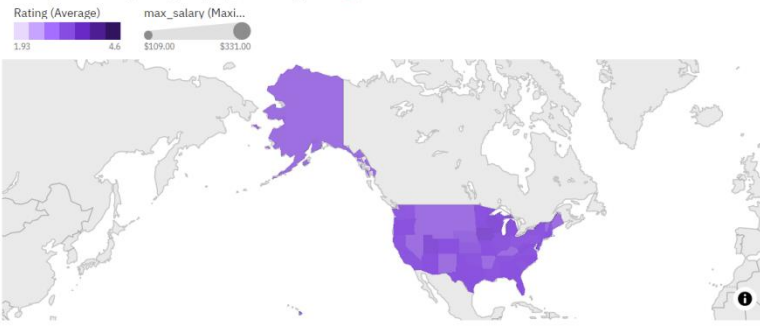
### Details

Over all **job titles**, the average of **avg\_salary** is 123.6.

The average values of **avg\_salary** range from 67.5, occurring when **Job Title** is In-Line Inspection Data Analyst, to 271, when **Job Title** is COMPUTER SCIENTIST - ENGINEER - RESEARCH COMPUTER SCIENTIST - SIGNAL PROCESSING.

**avg\_salary** is unusually high when **Job Title** is COMPUTER SCIENTIST - ENGINEER - RESEARCH COMPUTER SCIENTIST - SIGNAL PROCESSING, Manager, Field Application Scientist, Southeast and Senior Principal Data Scientist (Python/R).

#### Rating and max\_salary for job\_state regions 4



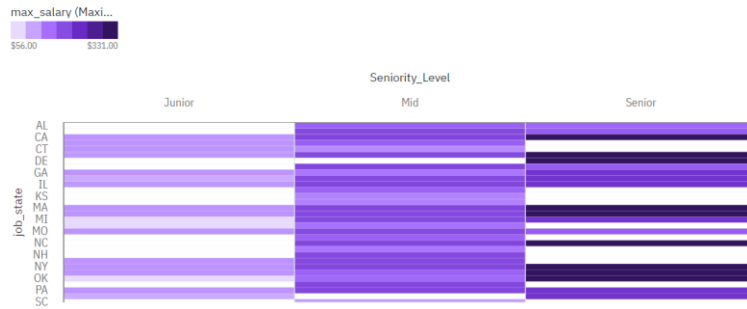
#### Details

Over all values of **job\_state**, the average of **Rating** is 3.587.

The average values of **Rating** range from 1.933, occurring when **job\_state** is NE, to 4.6, when **job\_state** is IA.

CA is the most frequently occurring category of **job\_state** with a count of 165 items with **Rating** values (25 % of the total).

#### max\_salary by job\_state and Seniority\_Level 4



#### Details

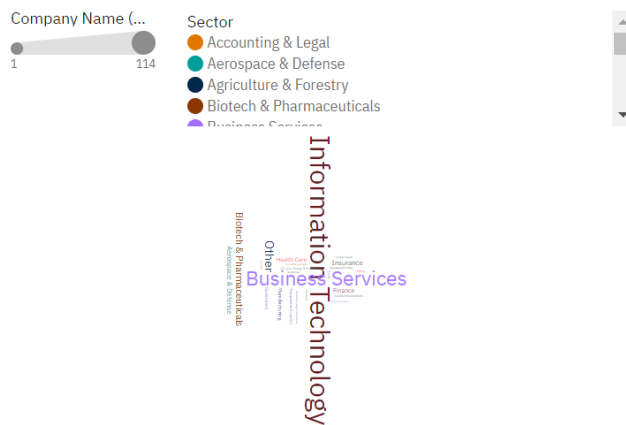
The largest value of **max\_salary** is 331 and occurs in CA and Senior.

The total number of results for **max\_salary**, across all **job\_state**, is 660.

CA is the most frequently occurring category of **job\_state** with a count of 165 items with **max\_salary** values (25 % of the total).

Mid is the most frequently occurring category of **Seniority\_Level** with a count of 467 items with **max\_salary** values (70.8 % of the total).

#### Sector colored by Sector sized by Company Name

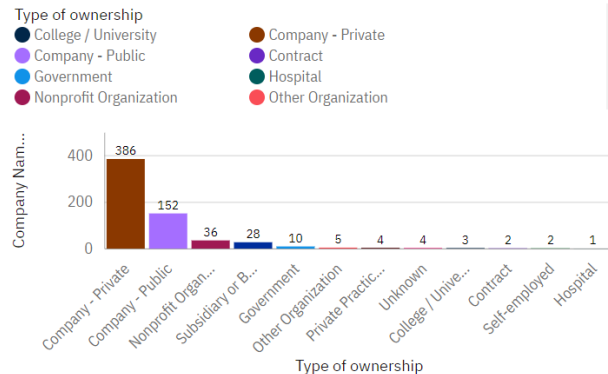


#### Details

The overall number of results for **Company Name** is 660.

Information Technology is the most frequently occurring category of **Sector** with a count of 178 items with **Company Name** values (27 % of the total).

**Company Name by Type of ownership colored by Type of ownership**



## Details

The total number of results for **Company Name**, across all **Type of ownership**, is 633.

Company - Private is the most frequently occurring category of **Type of ownership** with a count of 386 items with **Company Name** values (61 % of the total).

## Selected sources /

### Job data module - Jobs e... + :

Search

Navigation paths +

Cleaned\_...obs.csv

abc Job Title

abc Salary Estimate

abc Job Description

Rating

abc Company Name

abc Location

abc Headquarters

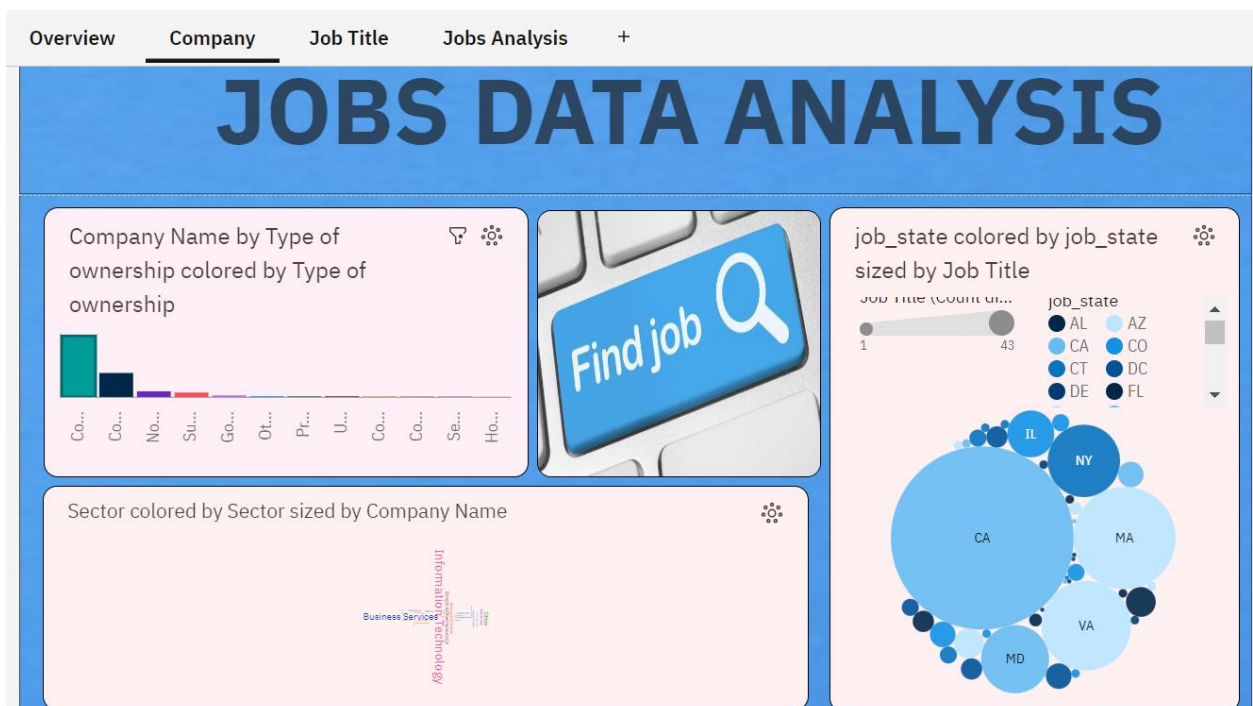
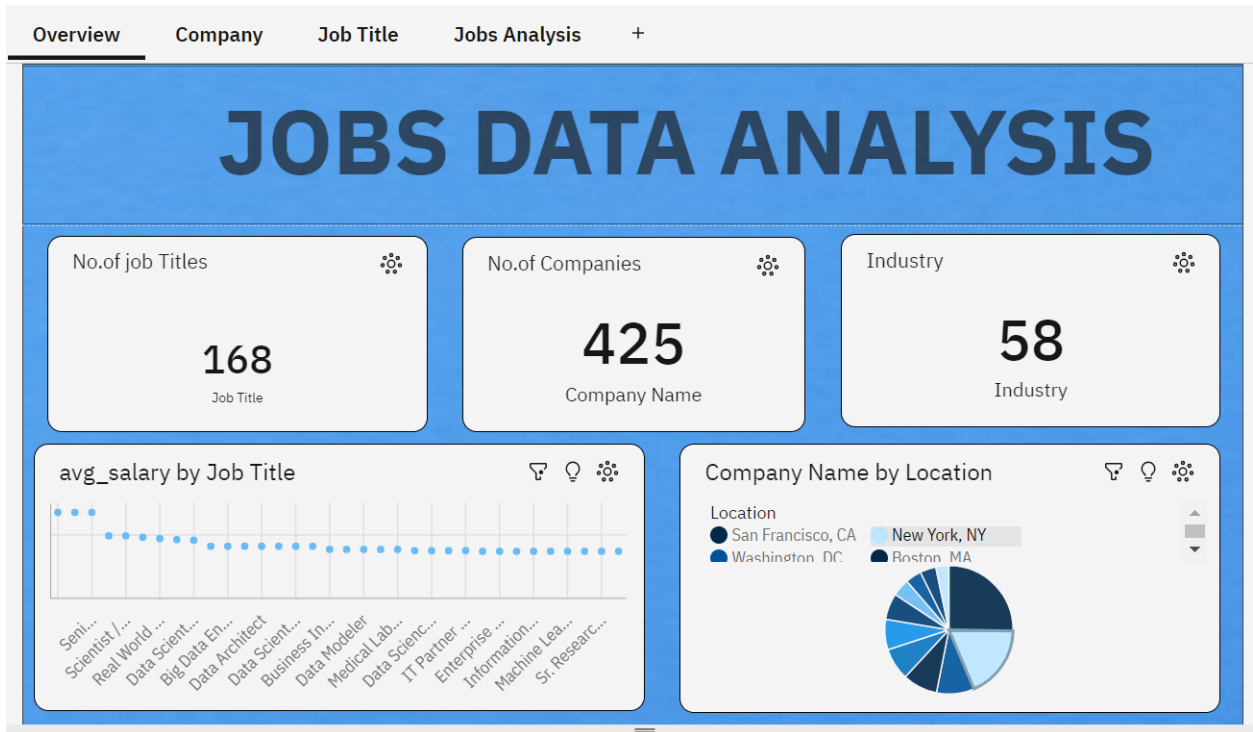
abc Size

abc Type of...nership

abc Industry



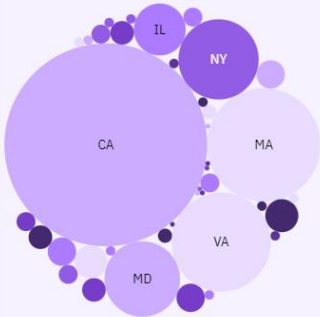
## DASHBOARD



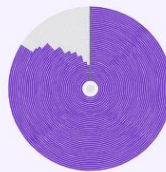
Overview Company Job Title Jobs Analysis +

# JOBS DATA ANALYSIS

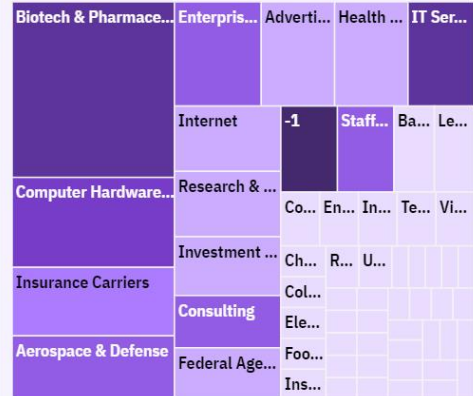
job\_state colored by  
job\_state sized by Job  
Title



Rating by Job Title



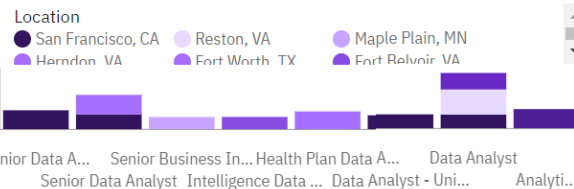
Industry hierarchy colored by Industry  
and sized by Job Title



Overview Company Job Title Jobs Analysis +

# JOBS DATA ANALYSIS

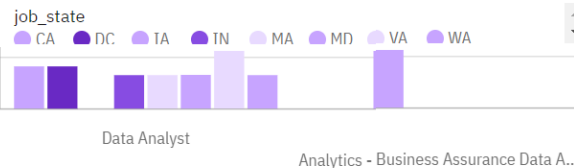
avg\_salary by Job Title colored by Location



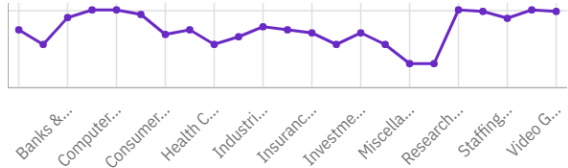
job\_simp and Job Title

job_simp	Job Title
analyst	Analytics - Business Assurance Data Analyst
	Business Data Analyst
	Business Intelligence Analyst

max\_salary by Job Title colored by job\_state



min\_salary by Industry



## STORY

### Glassdoor Job Story

What are the different job roles?

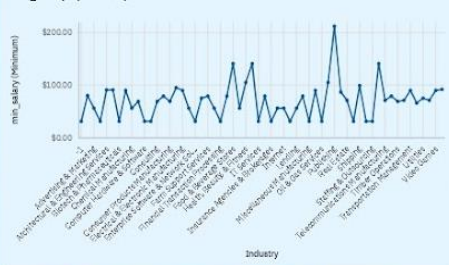
which companies are offering these roles?

What sector and industry the company belongs?

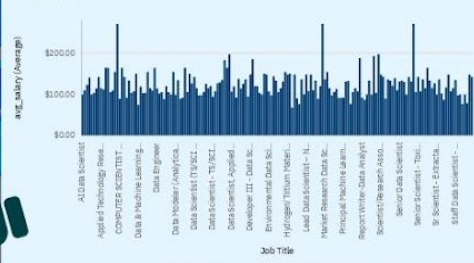
what is the salary trend?

### Glassdoor Jobs Story

min\_salary by Industry



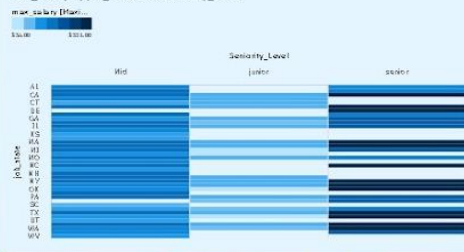
avg\_salary by Job Title



Salary trend as per the market standards

### Glassdoor Jobs Story

max\_salary by job\_state and Seniority\_Level



Darker the color shows heigher the salary as per different level of seniorty

Rating and max\_salary for job\_state regions



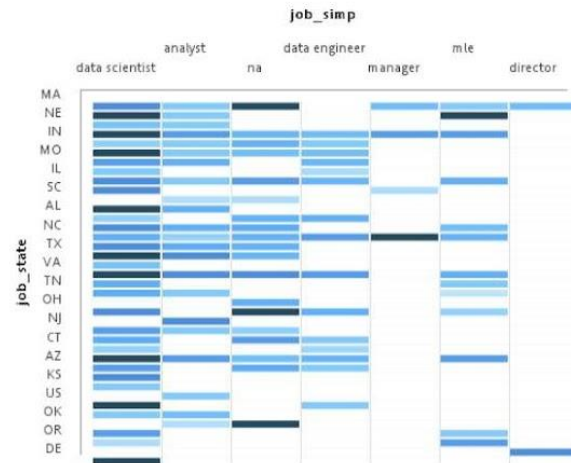
Salary offerered at different locations and rating of particular job

# REPORT

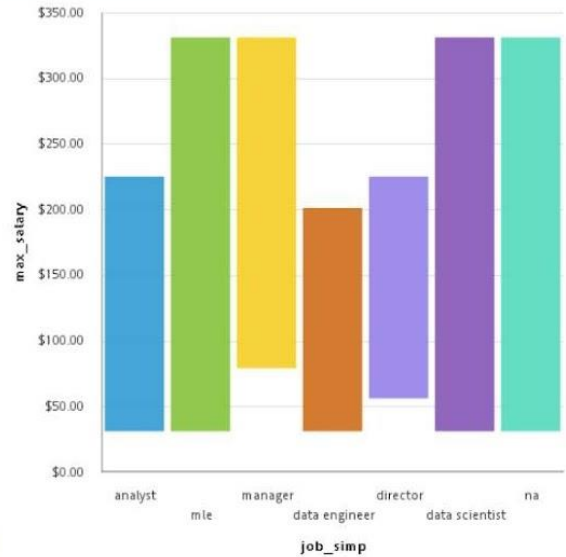
## Glassdoor Jobs Data Report

Which state is offering highest salary in particular domain

max\_salary



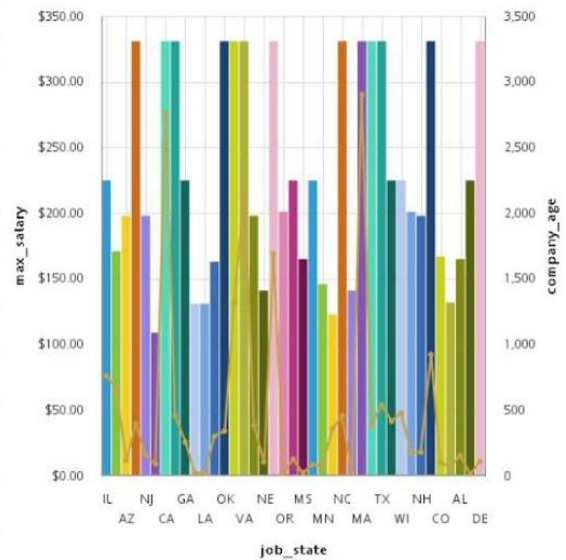
Salary range for different job categories



Analyzing skills on the basis of different job title

	python	big_data	tableau	aws	spark	hadoop
Data Modeler	1	0	1	0	0	0
Data Scientist/Machine Learning	2	2	0	0	2	2
Data Analyst	9	1	7	0	1	1
Data Analyst I	0	0	0	0	0	0
Computational Scientist, Machine Learning	1	0	0	1	0	0
Product Data Scientist - Ads Data Science	2	0	0	0	0	0
Data Scientist - Intermediate	2	0	0	0	0	0
Global Data Analyst	0	0	1	0	0	0
Data & Machine Learning Scientist	2	0	0	2	0	0
Data Engineer (Remote)	1	0	0	1	1	1
Data Scientist, Applied Machine Learning - Bay Area	2	0	0	2	0	0
Purification Scientist	0	0	0	0	0	0
Data Scientist 3 (718)	2	0	0	2	0	0
Real World Science,	2	0	0	0	0	2

Max salary offered by companies at particular location in accordance with company age





# WEB INTEGRATION

info@thesmartbridge.com +1 5589 55488 55

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GLASSDOOR JOBS ANALYSIS

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## Welcome to Glassdoor Jobs Analysis

We are your partners in jobs data analytics.

Get Started

GLASSDOOR JOBS ANALYSIS

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### About Us

This application is a great analytics tool to analyze glassdoor jobs data. You will get insightful Dashboard that helps you get insights. you can also have descriptive reports and amazing animated story



#### BETTER JOBS INSIGHTS

You will get better insights about different job titles and the opportunities that can help you in your career...



#### ANALYTICS TOOL

This is a great analytics tool to analysis jobs data you get insightful dashboard, report,story

GLASSDOOR JOBS ANALYSIS

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Overview Company Job Title Jobs Analysis

## JOB DATA ANALYSIS

No. of Job Title

168

Job Title

No. of Companies

425

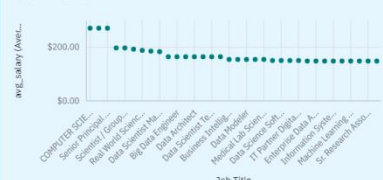
Company Name

Industry

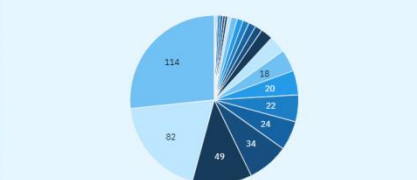
58

Industry

avg\_salary by Job Title

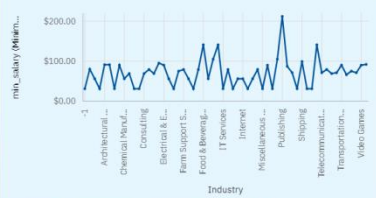


Company Name by Sector

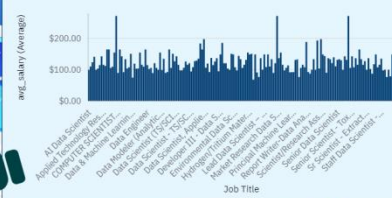


# Glassdoor Jobs Story

min\_salary by Industry



avg\_salary by Job Title

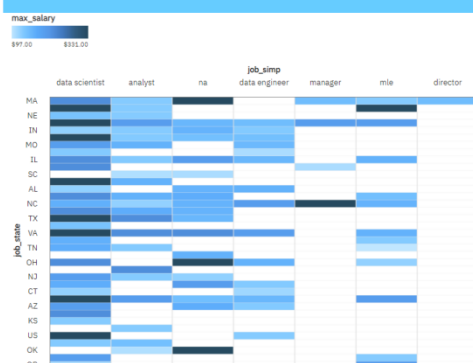


Salary trend as per the market standards

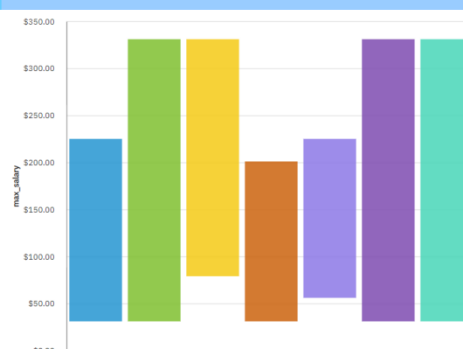
## REPORT

### Glassdoor Jobs Data Report

Which state is offering highest salary in particular domain



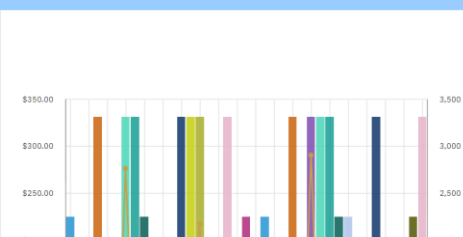
Salary range for different job categories

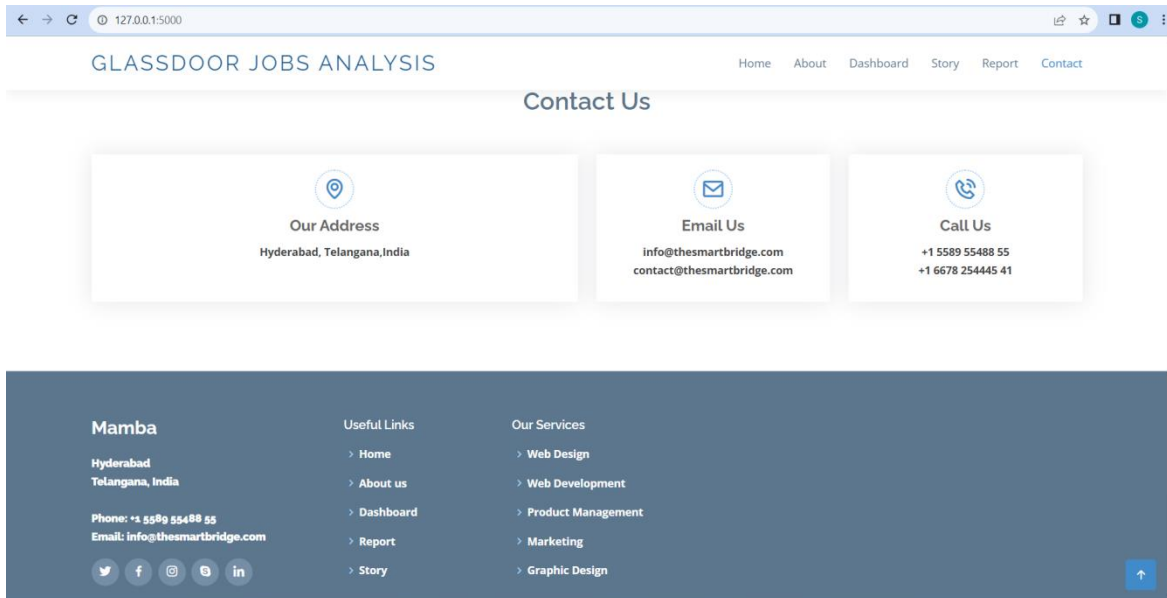


Analyzing skills on the basis of different job title

	python	big_data	tableau	aws	spark	hadoop	excel
Data Modeler	1	0	1	0	0	0	1
Data Scientist/Machine Learning	2	2	0	0	2	2	0
Data Analyst	9	1	7	0	1	1	10
Data Analyst I	0	0	0	0	0	0	0
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Product Data Scientist - Ads Data Science	2	0	0	0	0	0	0
Data Scientist - Intermediate	2	0	0	0	0	0	2
Global Data Analyst	0	0	1	0	0	0	1
Data & Machine Learning	2	0	0	2	0	0	0

Max salary offered by companies at particular location in accordance with company age





## 5. ADVANTAGES:

- **Job Listings:** Glassdoor aggregates job postings from various sources, making it a convenient platform for job seekers to find and apply for relevant positions across different industries and locations.
- **Job Market Research:** Glassdoor provides access to job market trends and hiring patterns, helping job seekers stay updated on industry developments and opportunities.
- **Recruitment Marketing:** Employers can use Glassdoor as a recruitment marketing platform to advertise their job openings, attracting a diverse pool of candidates actively seeking new opportunities.
- **Data-Driven Decision Making:** Glassdoor's data and insights can help employers make data-driven decisions related to compensation, benefits, and other employee-related matters.

## DISADVANTAGES:

- **Influence of a Single Review:** A single extremely positive or negative review can significantly impact a company's overall rating, which might not reflect the collective employee sentiment accurately.
- **Paywall for Some Features:** While Glassdoor offers valuable information for free, some advanced features and insights may require a paid subscription, limiting access to certain users.
- **Recruitment Challenges:** Negative reviews and low ratings may deter potential candidates from applying to the company, making it more difficult to attract top talent.
- **Negative Reviews Impact:** Negative reviews on Glassdoor can harm a company's reputation and employer brand. Responding to negative reviews may not always be sufficient to mitigate the damage.

## 6 . APPLICATION:

- **Salary Negotiation:** Job candidates can use salary information from Glassdoor to negotiate better compensation packages during the hiring process.
- **Diversity and Inclusion Insights:** Glassdoor provides diversity and inclusion statistics for some companies, allowing job seekers to evaluate a company's commitment to diversity.
- **Recruitment Marketing:** Companies can use Glassdoor as a recruitment marketing platform to advertise job openings and attract talent actively seeking new opportunities.
- **Industry Insights:** Glassdoor can offer valuable industry trends and insights, helping users stay updated on changes and developments in their field of interest.

## 7. CONCLUSION:

The future work for the data analysis of the Glassdoor jobs project holds promising opportunities for further exploration and improvement. With the wealth of data available on the platform, there are several areas that can be focused on to enhance the analysis and provide more valuable insights. Incorporating machine learning algorithms and natural language processing techniques can help in extracting deeper insights from the job descriptions and reviews. By analyzing the language used and identifying patterns, it is possible to gain a better understanding of the skills and qualifications required for different positions, as well as the overall sentiment associated with certain companies or industries.








Visualizing the data in meaningful and interactive ways can improve the usability and accessibility of the insights generated from the analysis. This can involve creating dashboards, interactive charts, or heat maps to enable users to explore the data and gain insights at a glance.

Overall, the future work for the data analysis of the Glassdoor jobs project holds immense potential in terms of uncovering valuable insights, providing actionable recommendations, and empowering job seekers and companies alike. By leveraging advanced analytical techniques and continuously improving the data analysis pipeline, the project can contribute to enhancing transparency and efficiency in the job market.



## 8 . FUTURE SCOPE:

The future scope of the data analysis of Glassdoor jobs holds immense potential and can be pursued in several directions. Here are some key areas that can be focused on:

-  **Predictive Analytics**
-  **Recommender Systems**
-  **Sentiment Analysis**
-  **Diversity and Inclusion Analysis**
-  **Skill Gap Analysis**
-  **Geographical Analysis**
-  **Social and Network Analysis**

Overall, the future work of data analysis of Glassdoor jobs offers numerous possibilities for enhancing the job search experience, improving transparency in the job market, promoting diversity and inclusion, and enabling data-driven decision-making for both job seekers and employers. By exploring these areas, it is possible to unlock valuable insights that can transform the way people find and evaluate job opportunities.

