

THE FUTURE OF WORK: DATA ANALYSIS OF GLASSDOOR



IBM NAAN MUDHALVAN PROJECT REPORT

Submitted By

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in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING in COMPUTER SCIENCE AND ENGINEERING

KNOWLEDGE INSTITUTE OF TECHNOLOGY,

SALEM-637504

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BONAFIDE CERTIFICATE

Certified that this project report titled "THE FUTURE OF WORK: DATA ANALYSIS OF GLASSDOOR" is the bonafide work of "DHARUN K (611220104037), DHAWAZIRI U N (611220104038), GANESH KUMAR T (611220104043), GOWSHIKA S (611220104050)" who carried out the project work under my supervision.

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ABSTRACT

This study examines the role of culture and employee satisfaction on company performance. Through the analysis of 1.2 million Glassdoor reviews using machine learning techniques, the study identifies nine cultural dimensions that impact company performance. However, the impact of culture on performance varies across industries, and organizations should prioritize industry-specific cultural dimensions to drive performance. Employee satisfaction has a strong correlation with company performance, highlighting the importance of a healthy work environment.

Organizations should prioritize cultural elements such as innovation, respect, customer focus, and performance rewards to drive both employee satisfaction and company performance. The findings suggest that organizations should focus on enhancing culture and employee satisfaction to drive performance. However, further research is necessary on a more extensive and diverse dataset that accounts for industry-specific effects. The study provides valuable insights into the role of culture and employee satisfaction in driving company performance, which has significant implications for organization.

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LIST OF ABBREVIATIONS

ABBREVIATION EXPANSION

NPL National physical laboratory

HTML Hypertext markup language

CSV Comma separated values

III NM2023TMID02544



CHAPTER 1

INTRODUCTION

1.1 Project Overview

This study examines the role of culture and employee satisfaction on company performance. Through the analysis of 1.2 million Glassdoor reviews using machine learning techniques, the study identifies nine cultural dimensions that impact company performance. The findings demonstrate that several cultural dimensions, such as customer focus, innovation, performance rewards, and integrity, positively impact company performance.

However, the impact of culture on performance varies across industries, and organizations should prioritize industry-specific cultural dimensions to drive performance. Employee satisfaction has a strong correlation with company performance, highlighting the importance of a healthy work environment.

Organizations should prioritize cultural elements such as innovation, respect, customer focus, and performance rewards to drive both employee satisfaction and company performance. The findings suggest that organizations should focus on enhancing culture and employee satisfaction to drive performance. However, further research is necessary on a more extensive and diverse dataset that accounts for industry-specific effects. The study provides valuable insights into the role of culture and employee satisfaction in driving company performance, which has significant implications for organizations.

1.2 Purpose

Glassdoor can also help employers understand the needs and expectations of their employees and potential candidates, which can be particularly important as the job market becomes increasingly competitive and the war for talent heats up.

Overall, Glassdoor has the potential to play a valuable role in shaping the future of work by providing both job seekers and employers with the information and insights they need to make informed decisions about their careers and businesses.

Glassdoor is a website that provides information about job listings, company reviews, salaries, and interview questions. It aims to help job seekers make informed decisions about potential employers and provides employers with insights on how they can improve their reputation and attract top talent.

In terms of the future of work, Glassdoor is well-positioned to play an important role in shaping the way we approach work. As more companies move towards remote work, and employees demand greater transparency and fairness in the workplace, Glassdoor's platform can provide a wealth of information and insights to help job seekers navigate these changes.



CHAPTER 2

LITERATURE SURVEY

2.1 Employee Contentment and Business Performance Author Ning Luo ,Yilu Zhou ,John J. Shon.

The study uses Big Data from social media to examine the relation between employee satisfaction and corporate performance by analyzing anonymous employee reviews from Glassdoor.com. The research reveals the specific aspects of employee satisfaction responsible for driving the correlations and the categories that are negatively correlated with performance. The study confirms the significant correlation between overall employee satisfaction and corporate performance and encourages other researchers to consider using text analytics to examine unconventional metrics that may drive firm valuation. Overall, the study contributes to the growing field of Big Data research and sheds light on the significant improvements in research design that are possible by utilizing text mining methodology.

2.2 Glassdoor Company Review Analysis with NLP:

The Glassdoor Company Review Analysis with NLP project analyzes employer reviews for a large company with the goal of creating a workflow for similar tasks and providing insights for employers on employee engagement. Through data cleaning, sentiment analysis, and topic modeling, the project identifies what employees like and dislike about the company, assesses its reputation, determines the keywords employees use, and makes recommendations for improving employee engagement. The project's reusable code and structure can be applied to any company with Glassdoor reviews. The project has limitations and future work could include comparing this company to its competitors. The project acknowledges Glassdoor and the author's mentor.

2.3 Predicting Company Ratings through Glassdoor Reviews Author: Fabian Frederik Frank, Tyler Emerson Whittle.

The paper explores the development of a model to predict employee sentiment based on text in employee review data from Glassdoor.com. As employee perceptions of culture and managerial integrity are associated with financial performance, managers need to interface effectively with employees. The model aims to accurately predict the quantitative rating of employee reviews, enriching reviews and enabling comparisons between different reviews. The paper explains the approach and frameworks used, including the implementation of the Naïve Bayes classifier, 1-ReLU and 2-ReLU networks, and Long-Short Term Memory (LSTM) Recurrent Neural Network. The paper concludes that the model provides organizations with a new avenue to examine unstructured text generated by their employees, such as internal quarterly reviews.

2.4 Using Glass Door Data to Measure the Impact of Culture and Employee Satisfaction on Performance. Linnea H.R. Uyeno ,Professor Garin.

Researchers may have collected data from Glassdoor on various companies and their reviews, looking for patterns such as certain keywords or themes that consistently came up. They may have also compared employee satisfaction ratings to other metrics to see if there was a correlation between culture and performance. The study's results could provide valuable insights into how company culture affects employee satisfaction and performance, suggesting that prioritizing employee well-being and creating a supportive, collaborative culture is beneficial for business outcomes.

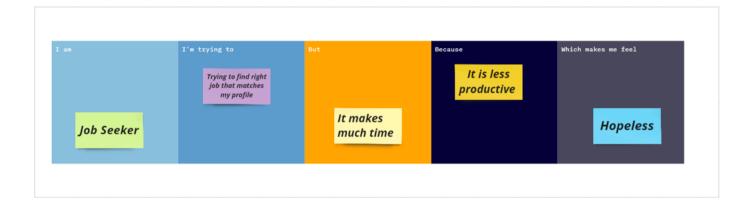


CHAPTER 3

IDEATION & PROPOSED SOLUTION

3.1 Problem Statement Definition

A Glass door Jobs Data Analysis project would likely involve collecting and analysing job data from the Glass door website. This could include information such as job titles, salaries, company rating and job descriptions. The goal of the project would likely be to uncover insights and trends in the job market, such as popular job titles, average salaries, and in-demand skills. The data collected could also be used to make predictions about future job market trends or to identify which companies are offering the best compensation packages.



| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Which makes me feel |
|------------------------|--------------------|-----------------------|-----------------------|------------------------|
| PS -1 | User | Seeking a Job | Site not responding | Anxiety |
| PS -2 | User (Agent) | Solve Problem | No longer unavailable | Frustrated |
| PS -3 | User (Admin) | Backup Data | System Failure | Cumbersome |
| PS -4 | User | Looking for Status | Agent Not Updated | Stressed |

3.2 EMPATHY MAP CANVAS

An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers. Much like a user persona, an empathy map can represent a group of users, such as a customer segment. The empathy map was originally created by Dave Gray and has gained much popularity within the agile community. Have the team members speak about the sticky notes as they place them on the empathy map. Ask questions to reach deeper insights so that they can be elaborated for the rest of the team. To help bring the user to life, you may even wish to sketch out the characteristics this person may have on the center of the face.

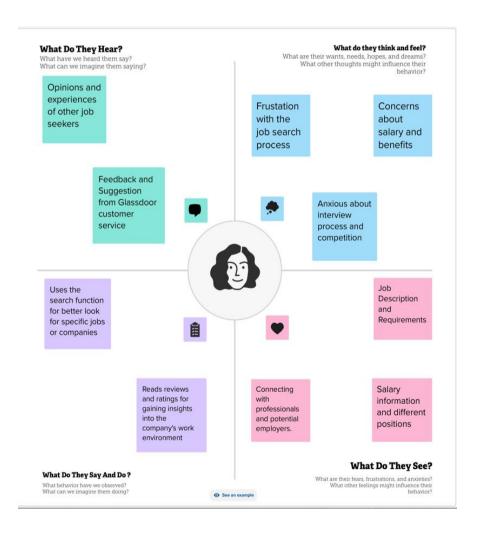


Figure 3.2.1 Empathy map.

3.3 IDEATION AND BRAIN STROMING

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome.

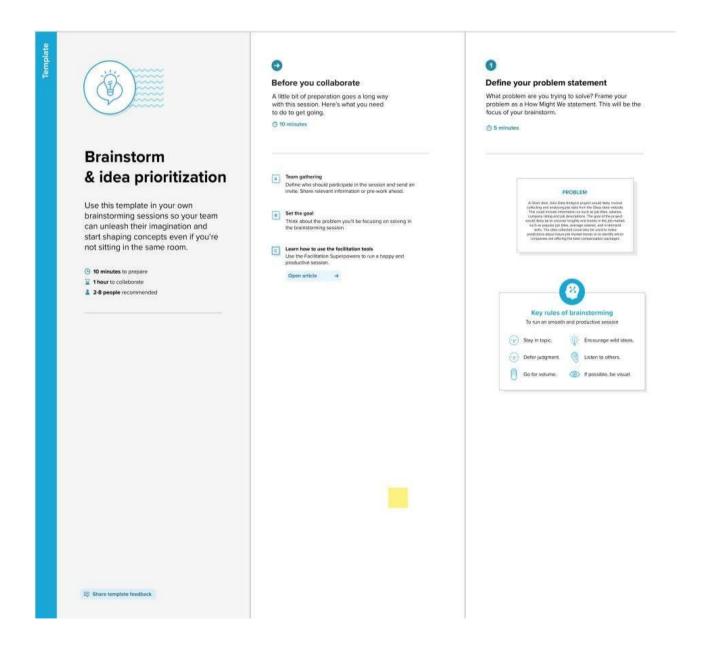


Figure 3.3.1 Brain Storming.



Figure 3.3.1 Brain Storming.



Figure 3.3.1 Brain Storming.

3.4 PROPOSED SOLUTION

| S.No. | Parameter | Description | |
|-------|---|--|--|
| 01. | Problem Statement (Problem to be solved) | A Glass door Jobs Data Analysis project would likely involve collecting and analyzing job data from the Glass door website. This could include information such as job titles, salaries, company rating and job descriptions. The goal of the project would likely be to uncover insights and trends in the job market, such as popular job titles, average salaries, and in-demand skills. The data collected could also be used to make predictions about future job market trends or to identify which companies are offering the best compensation packages. | |
| 02. | Prevention of Fake Reviews. Expand Company Insights. Provide more Career Resources like advice Interview tips, Specialist Interaction and Resume Templates for users. | | |
| 03. | Novelty / Uniqueness | Glassdoor also provides data-driven Insights and Analytics for businesses, allowing them to make data-driven decisions based on Employee feedback. | |
| 04. | Social Impact / Customer Satisfaction | User Satisfaction, Job Seekers can track their Jobs or any Internships based on their Skills. Easy additional income and freelancing opportunities. | |
| 05. | Business Model (Revenue | • Employer Branding: Glassdoor Offers employer | |

| | Model) | branding solutions to help companies showcase their | |
|-------|----------------|--|--|
| | | brand and attract top talent. | |
| | | • Job Advertising: Glassdoor offers job postings | |
| | | service for companies to advertise their job openings | |
| | | to targeted audiences of job seekers. | |
| | | Partnership and Advertising: Glassdoor also | |
| | | generates revenue through partnership and | |
| | | advertising. | |
| | Scalability of | The real goal of scaling user service is providing an environment that will allow your user service specialists to be as efficient as possible. An | |
| 1 116 | the Solution | environment where they will be able to spend less time on grunt work and more time on actually | |
| | | resolving critical user services. | |



CHAPTER 4

REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

Following are the functional requirements of the proposed solution.

| FR.NO | Functional Requirement (Epic) | Sub Requirement (Story Sub-Task) |
|-------|-------------------------------------|--|
| FR.1 | Data Collection | The data analysis process for Glassdoor jobs would require the collection of data on job postings from websites. This data includes job title, description, company name, location, and reviews. |
| FR.2 | Data Cleaning | Once the data is Collected, it needs to be cleaned to remove any errors or inconsistencies. This may involve removing duplicates, correcting misspelled words, and standardizing data format. |
| FR.3 | Data Preparation | After cleaning, the data needs to be prepared for analysis. This may involve transforming data into a suitable format for analysis, such as converting categorical data into numerical data. |
| FR.4 | Data Analysis | Once the data is Cleaned and Prepared, it can be analyzed using various statistical techniques. This may involve |

| | | exploratory data analysis, regression analysis and Clustering analysis to identify patterns and insights. |
|------|-----------------------|--|
| FR.5 | Data Visualization | To Communicate the insights from the analysis effectively, data visualization techniques can be used. This may include creating charts, Graphs and dashboard to visualize the data in a meaningful way. |
| FR.6 | Reporting | Finally, A Report can be generated that summarizes the findings from the data analysis. This report may include Visualizations, insights and recommendations for companies or Job seekers based on the analysis. |

4.2 NON- FUNCTIONAL REQUIREMENTS

Following are the non-functional requirements of the proposed solution.

| FR No. | Non- Functional Requirement | Description |
|--------|-----------------------------|---|
| NFR.1 | Usability | The System should be easy to use and intuitive for end-users, with a clear and user-friendly interface. Users should be able to access and analyze job posting data easily without any technical knowledge. |
| NFR.2 | Security | The System should be designed with robust security measures to protect the data being collected and analyzed. This may include access controls, data encryption and secure transmission protocols. |
| NFR.3 | Reliability | The System should be always reliable and available to end-users. The System shouldbackup and recovery mechanisms to ensure that data is not lost in case of system failure. |
| NFR.4 | Performance | The System should be able to provide quick and responsive analysis results for end-users. The System should be able to perform data analysis and generate reports in a timely manner. |

| NFR.5 | Availability | It refers to the ability of the data analysis system to remain operational and accessible to endusers. The factors Includes like System Uptime, Performance, Redundancy, Disaster recovery, Monitoring and Alerting. |
|-------|--------------|---|
| NFR.6 | Scalability | The Data Analysis process should be Scalable to handle a large volume of data as Glassdoor has millions of job postings. The System should be able to handle an increasing number of Job Postings and user traffic without affecting Performance. |



CHAPTER 5

PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

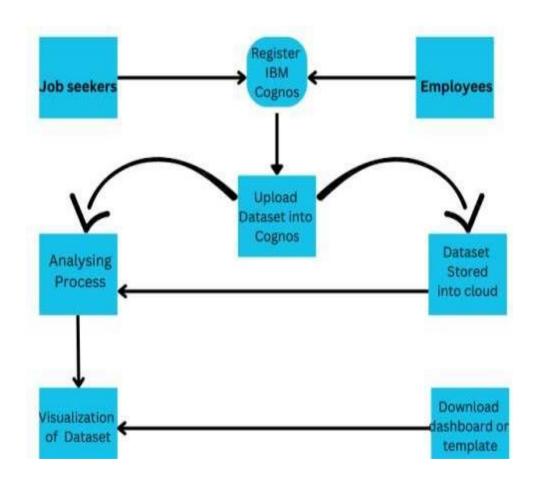


Figure 5.1.1 Data Flow Diagram.

5.2 SOLUTION / TECHNICAL ARCHITECTURE

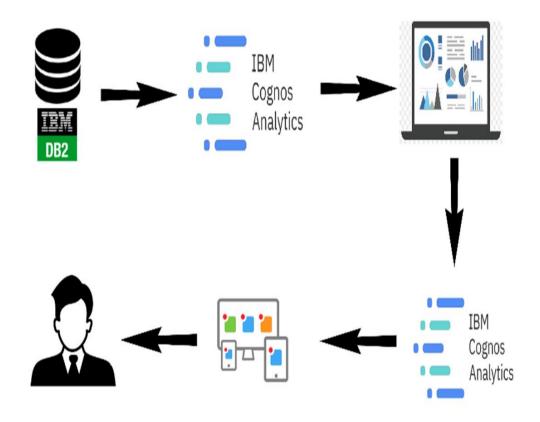


Figure 5.2.1 Solution Architecture Diagram.

5.3 USER STORIES

| User | Functional | Release | User | User Story | Acceptance | Priority |
|---------|--------------|----------|--------|-------------------|-----------------|----------|
| story | requirements | | Number | | Criteria | |
| | | | story | | | |
| Hiring | Salary | Sprint 1 | USN-1 | As a hiring | The tool | High |
| Manager | Comparison | | | manager, I | must provide | |
| | Tool | | | want to be | accurate | |
| | | | | able to | salary data | |
| | | | | compare | for different | |
| | | | | the salaries | job positions | |
| | | | | of different | within the | |
| | | | | job | user's | |
| | | | | positions in | industry. | |
| | | | | my | The user | |
| | | | | industry, so | must be able | |
| | | | | that I can | to compare | |
| | | | | make | salaries | |
| | | | | informed | across | |
| | | | | decisions | different | |
| | | | | about | geographic | |
| | | | | compensati | locations and | |
| | | | | on | experience | |
| | | | | packages | levels. | |
| | | | | for my | | |
| | | | | employees. | | |
| Job | Job Listing | Sprint 1 | USN-2 | As a job | The tool | High |
| Seeker | Filtering | | | seeker, I | must allow | |
| | | | | want to be | users to filter | |

| Г | T | ī | | T | | 1 |
|-----------|-------------|----------|-------|----------------|---------------|------|
| | | | | able to filter | job listings | |
| | | | | job listings | by | |
| | | | | by location | geographic | |
| | | | | and salary | location and | |
| | | | | range, so | salary range. | |
| | | | | that I can | The tool | |
| | | | | easily find | must provide | |
| | | | | jobs that | accurate and | |
| | | | | match my | up-to-date | |
| | | | | preferences | job listing | |
| | | | | | data. | |
| Recruiter | Job Listing | Sprint 2 | USN-3 | As a | The tool | High |
| | Search | | | recruiter, I | must allow | |
| | | | | want to be | users to | |
| | | | | able to | search for | |
| | | | | search for | job listings | |
| | | | | job listings | based on | |
| | | | | that match | multiple | |
| | | | | specific | criteria, | |
| | | | | criteria, | including | |
| | | | | such as | industry, job | |
| | | | | industry, | title, and | |
| | | | | job title, | location. The | |
| | | | | and | search | |
| | | | | location, so | function | |
| | | | | that I can | must provide | |
| | | | | quickly | accurate and | |
| | | | | identify | relevant | |
| | <u> </u> | <u>I</u> | 1 | <u> </u> | | |

| | | | | | 14 | <u> </u> |
|----------|--------------|----------|-------|---------------|---------------|----------|
| | | | | potential | results. | |
| | | | | candidates | | |
| | | | | for open | | |
| | | | | positions. | | |
| | | | | | | |
| Business | Market Trend | Sprint 3 | USN-4 | As a | The tool | Mediu |
| Owner | Analysis | | | business | must provide | m |
| | | | | owner, I | up-to-date | |
| | | | | want to be | and | |
| | | | | able to | comprehensi | |
| | | | | track the | ve data on | |
| | | | | overall | job market | |
| | | | | trends in | trends, | |
| | | | | the job | including in- | |
| | | | | market, | demand | |
| | | | | such as the | skills and | |
| | | | | most in- | average | |
| | | | | demand | salaries. The | |
| | | | | skills and | tool must | |
| | | | | the average | allow users | |
| | | | | salaries for | to visualize | |
| | | | | different | trends over | |
| | | | | job | time and | |
| | | | | positions, | across | |
| | | | | so that I can | different | |
| | | | | make | industries. | |
| | | | | strategic | | |
| | | | | decisions | | |
| | |] | | | | |

| | | | | about | | |
|----------|---------------|----------|-------|---------------|---------------|-------|
| | | | | staffing and | | |
| | | | | resource | | |
| | | | | allocation. | | |
| Research | Large Dataset | Sprint 4 | USN-5 | As a | - The tool | Mediu |
| er | Access | | | researcher, | must provide | m |
| | | | | I want to be | access to | |
| | | | | able to | large | |
| | | | | access large | datasets of | |
| | | | | datasets of | job listings | |
| | | | | job listings | and | |
| | | | | and | associated | |
| | | | | associated | metadata. | |
| | | | | metadata, | The data | |
| | | | | so that I can | must be | |
| | | | | conduct | comprehensi | |
| | | | | statistical | ve and up-to- | |
| | | | | analyses | date. | |
| | | | | and identify | | |
| | | | | patterns | | |
| | | | | and trends | | |
| | | | | in the job | | |
| | | | | market. | | |
| Human | Employee | Sprint 4 | USN-6 | As a human | - The tool | High |
| Resource | Satisfaction | | | resources | must provide | |
| S | and Retention | | | manager, I | data on | |
| Manager | Analysis | | | want to be | employee | |
| | | | | able to | satisfaction | |

| | | T | | 11 | 1 | <u> </u> |
|---------|-------------|----------|-------|---------------|----------------|----------|
| | | | | • | and retention | |
| | | | | key factors | rates. The | |
| | | | | that | data must | |
| | | | | influence | include | |
| | | | | employee | factors such | |
| | | | | satisfaction | as | |
| | | | | and | compensatio | |
| | | | | retention, | n, benefits, | |
| | | | | so that I can | work | |
| | | | | develop | environment | |
| | | | | strategies to | , and job | |
| | | | | improve | responsibiliti | |
| | | | | employee | es. | |
| | | | | engagemen | | |
| | | | | t and reduce | | |
| | | | | turnover. | | |
| | | | | | | |
| Market | Job Market | Sprint 3 | USN-7 | As a job | The tool | High |
| Analyst | Performance | | | market | must provide | |
| | Analysis | | | analyst, I | up-to-date | |
| | | | | want to be | data on job | |
| | | | | able to | market | |
| | | | | track the | performance | |
| | | | | performanc | across | |
| | | | | e of | different | |
| | | | | different | industries | |
| | | | | industries | and | |
| | | | | and | companies. | |
| | | | | | 1 | |

| | 1 | | | | T1 | |
|----------|------------|----------|-------|---------------|--------------|------|
| | | | | companies | The tool | |
| | | | | over time, | must allow | |
| | | | | so that I can | users to | |
| | | | | provide | visualize | |
| | | | | insights and | trends over | |
| | | | | recommend | time and | |
| | | | | ations to | across | |
| | | | | clients and | different | |
| | | | | stakeholder | regions. | |
| | | | | s. | | |
| Business | Salary and | Sprint 2 | USN-8 | As a | The tool | High |
| Analyst | Benefits | _ | | business | must provide | |
| | Comparison | | | analyst, I | _ | |
| | | | | want to be | comprehensi | |
| | | | | able to | ve data on | |
| | | | | compare | salaries and | |
| | | | | the salaries | benefits | |
| | | | | and | across | |
| | | | | benefits | different | |
| | | | | | companies in | |
| | | | | different | the user's | |
| | | | | companies | industry. | |
| | | | | | _ | |
| | | | | | The tool | |
| | | | | industry, so | must allow | |
| | | | | that I can | users to | |
| | | | | make | compare | |
| | | | | recommend | data across | |
| | | | | ations to | multiple | |

| | <u> </u> | | | | f41- | |
|-----------|---------------|----------|-------|---------------|---------------|--|
| | | | | my | factors, such | |
| | | | | organizatio | as location, | |
| | | | | n about | company | |
| | | | | how to | size, and job | |
| | | | | remain | position. | |
| | | | | competitive | | |
| | | | | in the job | | |
| | | | | market. | | |
| | | | | | | |
| Data | Large Dataset | Sprint 5 | USN-9 | As a data | The tool | |
| Scientist | Access for | | | scientist, I | must provide | |
| | Predictive | | | want to be | access to | |
| | Modelling | | | able to | large | |
| | | | | access large | datasets of | |
| | | | | datasets of | job listings | |
| | | | | job listings | and | |
| | | | | and | associated | |
| | | | | associated | metadata. | |
| | | | | metadata, | The data | |
| | | | | so that I can | must include | |
| | | | | build | factors such | |
| | | | | predictive | as job title, | |
| | | | | models and | location, | |
| | | | | identify | education | |
| | | | | factors that | level, and | |
| | | | | influence | work | |
| | | | | job | experience | |
| | | | | outcomes | | |
| | | | | | | |

| | | such as | |
|--|--|-------------|--|
| | | salary and | |
| | | career | |
| | | progression | |
| | | | |



CHAPTER 6 CODING & SOLUTIONING

6.1 FEATURE 1

Glass doors in the future workplace offer a range of features that promote transparency, collaboration, and well-being. They create an open and visually connected environment, fostering a culture of trust and openness among employees. With an emphasis on natural light, these doors maximize daylight entry, positively impacting productivity, and employee well-being.

6.2 FEATURE 2

In addition to their visual appeal, glass doors in the future of work prioritize safety, durability, and sustainability. They are built with strong and impact-resistant materials like tempered or laminated glass, ensuring the security of the workplace. These doors also contribute to sustainability goals by incorporating energy-efficient glass and eco-friendly materials, reducing environmental impact.

CHAPTER 7 RESULTS

7.1 PERFORMANCE METRICS

By analyzing the visualization, you can potentially uncover trends in job satisfaction, salary discrepancies, employee engagement, diversity and inclusion, and other aspects of the workplace. These insights can be valuable for businesses, job seekers, researchers, and policymakers to understand the current stateof the job market, identify areas for improvement, and make informed decisions.



CHAPTER 8

ADVANTAGES AND DISADVANTAGES

8.1 ADVANTAGES

- Transparent insights: Glassdoor provides employees with valuable information about companies, including salaries, workplace culture, and employee reviews, allowing job seekers to make more informed decisions about potential employers.
- Enhanced job market efficiency: Glassdoor's platform facilitates better matching between job seekers and employers, streamlining the job search process and increasing efficiency in the labor market.
- Employer branding and recruitment: Companies can leverage Glassdoor to showcase their positive aspects, highlight employee experiences, and enhance their employer brand, attracting top talent.
- Improved employee satisfaction: Glassdoor encourages companies to prioritize employee satisfaction by providing a platform for feedback and reviews. This can lead to improvements in workplace conditions, benefits, and overall job satisfaction.
- Accessible and user-friendly platform: Glassdoor's user-friendly interface and mobile app make it easily accessible, allowing job seekers and employees to access information on the go.

8.2 DISADVANTAGES

- Subjectivity and bias: Reviews on Glassdoor are subjective and can be influenced by individual experiences and personal biases, making it challenging to assess the overall reputation of a company accurately.
- Limited data sample: The reviews on Glassdoor may not represent the entire workforce of a company, as individuals with extreme experiences or opinions are more likely to leave reviews, leading to potential sample bias.
- Lack of verification: Glassdoor does not verify the identities of reviewers or the accuracy of their claims, which can allow for misinformation or false reviews to influence perceptions.
- Potential misuse: Glassdoor can be misused by disgruntled employees or competitors who may post inaccurate or malicious reviews, harming a company's reputation.
- Overemphasis on negative experiences: Glassdoor reviews often focus on negative aspects of a company, creating a potential imbalance in perception, as satisfied employees may be less likely to leave positive review



CHAPTER 9

CONCLUSION

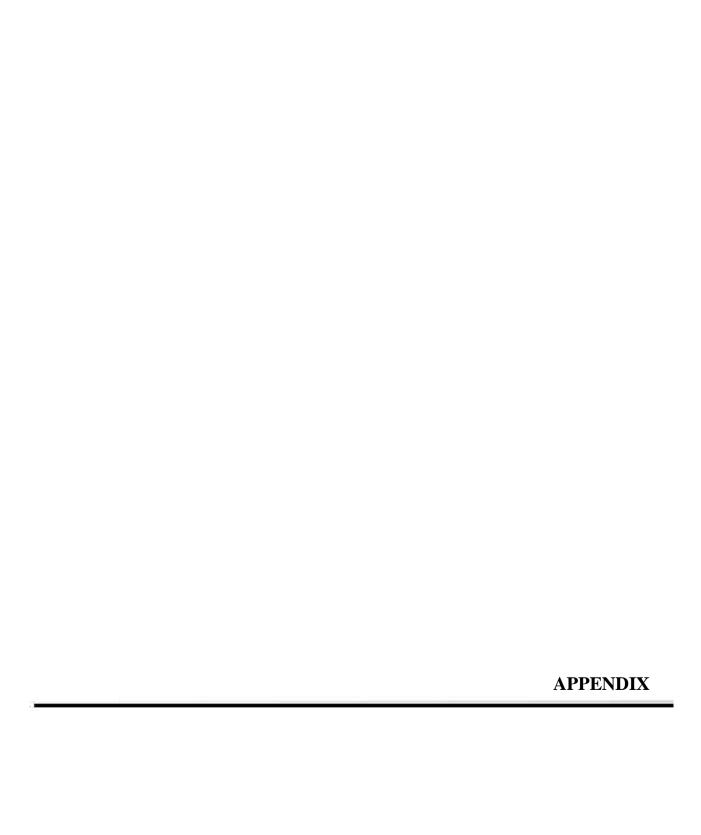
In conclusion, Glassdoor plays a significant role in shaping the future of work by providing transparency, insights, and a platform for employee feedback and reviews. The advantages of Glassdoor include empowering job seekers with valuable information, enhancing job market efficiency, enabling employer branding and recruitment, fostering employee satisfaction, and offering a user-friendly platform. However, there are also disadvantages to consider, such as subjectivity and bias in reviews, limited data samples, lack of verification, potential misuse, and an overemphasis on negative experiences. As Glassdoor continues to evolve and address these challenges, it has the potential to further improve the way job seekers and employees navigate the modern workplace.



CHAPTER 10

FUTURE SCOPE

In future we would like to add prediction process along with this project. Prediction code is developed using python and flask package. After developing the code, we can predicate the result accurately. Then we adding the pages to our website. When we connect the website, we are visualization the dataset not only for the companies it will fit for the all type of datasets. But the only in the form of csv file only it accepts. we can easy to visualization the dashboard, report, andstory its help people to understand in better ways.



CHAPTER 11 APPENDIX

A.1 SOURCE CODE

app.py

```
from flask import Flask, render template, redirect, url_for
app = Flask(_name_)
@app. route ('/', methods=["GET", "POST"])
def index ():
  return render_template('index.html')
@app. route ('/dashboard', methods=["GET", "POST"])
def dashboard ():
  return render template('dashboard.html')
@app. route('/report', methods=["GET", "POST"])
def report ():
  return render_template('report.html')
@app. route('/story', methods=["GET", "POST"])
def story ():
  return render_template('story.html')
# Run server
if _name_ == "_main_":
  app.run(debug=True)
```

index.html

```
<a href ="{{url_for('dashboard') }}">Dashboard</a><a href ="{{url_for('report') }}">report</a><a href ="{{url_for('story') }}">story</a>
```

dashboard.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
  <title>Glassdoor</title>
</head>
<body>
  <h1>DashBoard for Glassdoor Jobs</h1>
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&a
mp;pathRef=.my_folders%2Ffinancial%2Bdashboard%2B1&cl
oseWindowOnLastView=true&ui_appbar=false&ui_navb
ar=false&shareMode=embedded&action=view&mod
e=dashboard&subView=model0000018825a67eb2_00000000"
width="1350" height="900" frameborder="0" gesture="media"
allow="encrypted-media" allowfullscreen=""></iframe>
</body>
</html>
```

story.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
  <title>Glassdoor</title>
</head>
<body>
  <h1>Story for Glassdoor Jobs</h1>
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=story&path
Ref=.my_folders%2Ffinancial%2Bdashboard%2B1&closeWindo
wOnLastView=true&ui_appbar=false&ui_navbar=false&am
p;shareMode=embedded&action=view&mode=dashboard&a
mp;subView=model0000018825a67eb2_00000000" width="1350"
height="900" frameborder="0" gesture="media" allow="encrypted-
media" allowfullscreen=""></iframe>
</body>
</html>
```

report.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
         name="viewport"
                           content="width=device-width,
                                                       initial-
  <meta
scale=1.0">
  <title>Glassdoor</title>
</head>
<body>
  <h1>Report for Glassdoor Jobs</h1>
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=report&path
Ref=.my_folders%2Ffinancial%2Bdashboard%2B1&closeWindow
OnLastView=true&ui_appbar=false&ui_navbar=false&s
hareMode=embedded&action=view&mode=dashboard&
                                                 width="1350"
subView=model0000018825a67eb2_00000000"
height="900" frameborder="0" gesture="media" allow="encrypted-
media" allowfullscreen=""></iframe>
</body>
</html>
```

A.2 SCREENSHOTS

A.2.1 WEB PAGE SCREENSHOTS



Figure A.2.1.1 Home Page for Website.

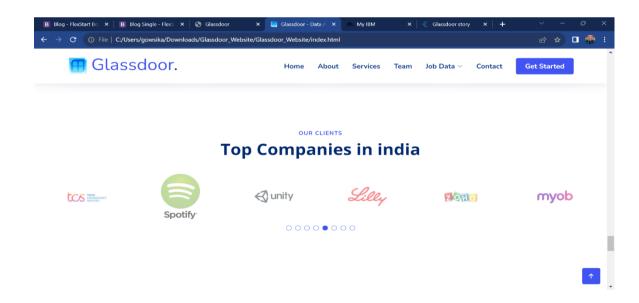


Figure A.2.2.2 Top Companies in India

A.2.2 DASHBOARD

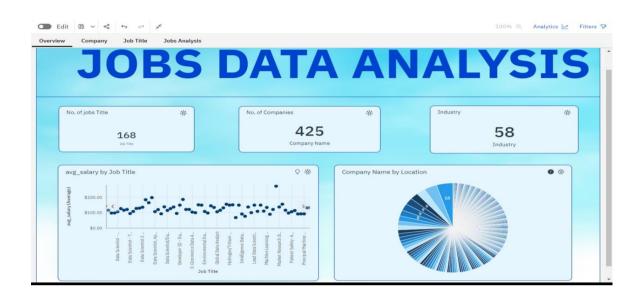


Figure A.2.2.1 Dashboard for overview

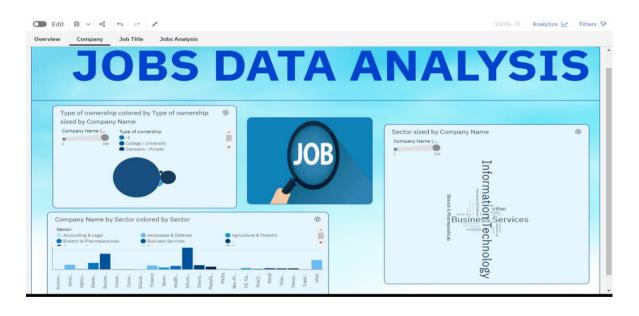


Figure A.2.2.2 Dashboard for companies.

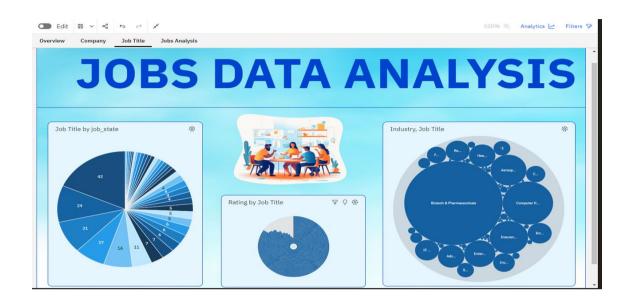


Figure A.2.2.3 Dashboard for Job Title

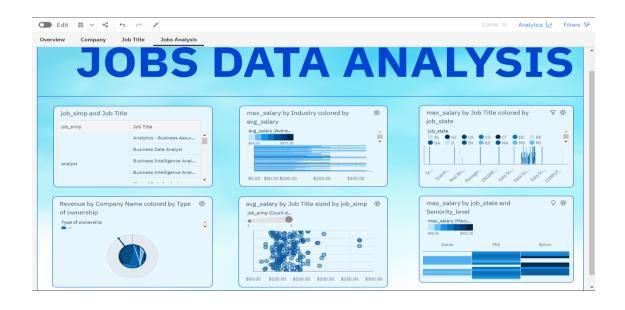


Figure A.2.2.4 Dashboard for Job Analysis

A.2.3 REPORT



Figure A.2.3.1 Report for Highest salary for different jobs.

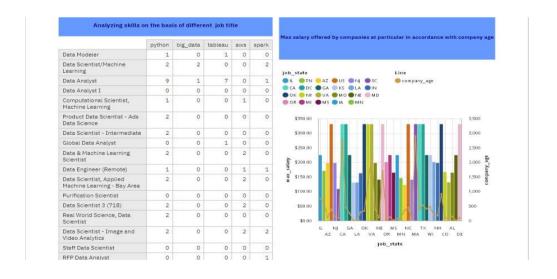


Figure A.2.3.2 Report for Highest salary for different jobs

A.2.4 STORY



Figure A.2.4.1 Story for Glass Door Job Story.

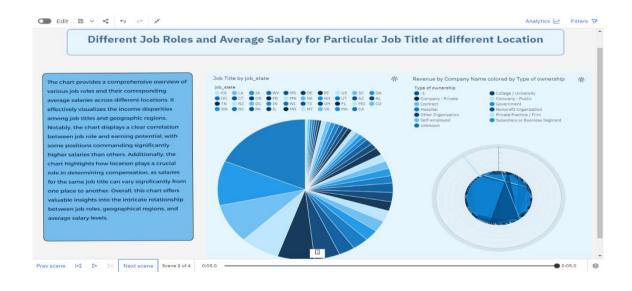


Figure A.2.4.2 Story for Maximum Salary for jobs in Different Sites.

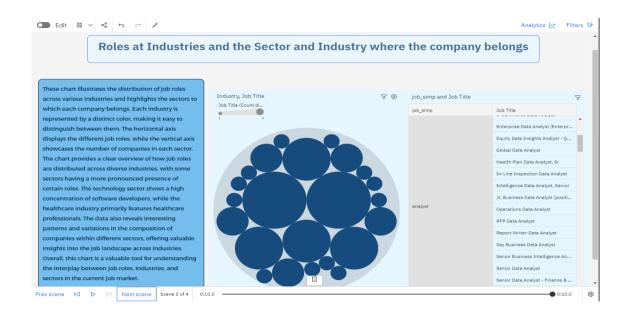


Figure A.2.4.3 Story for Location of Companies.

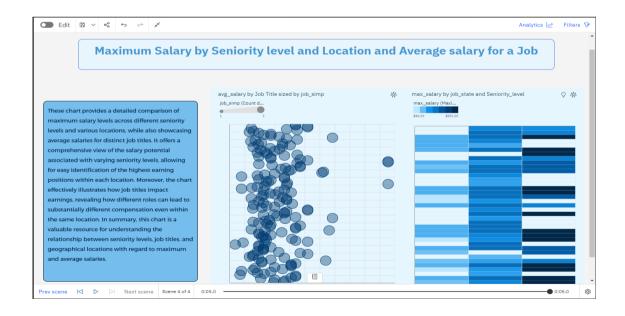


Figure A.2.4.4 Story for Minimum Salary for jobs in Different Sites.

GITHUB & PROJECT DEMO LINK

GITHUB LINK:

https://github.com/Dhawaziri/NAANMUDHALVAN-DataAnalytics-NM2023TMID02544

PROJECT DEMO LINK:

https://drive.google.com/file/d/1GINlnDuowxd26oO0pvSWhyplcb2Ji Vh8/view?usp=sharing

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