

User Manual

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TEAM
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JOBIFY

COMPANY REVIEWS & MORE

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Introduction

The following document will be bringing the user through a series of steps that will allow he/she to gain full access to the Jobify website as well as navigate through the various functionalities of each page.



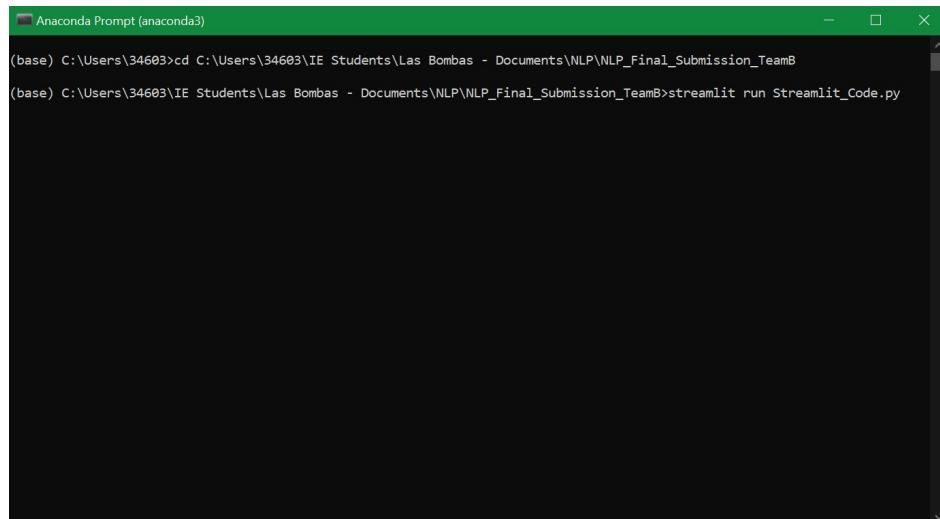
FILES INCLUDED

Zip folder: NLP_final_submission_TeamB
 0_User_Manual.pdf
 1_Overall_Working_Code.ipynb
 2_Streamlit_Code.py
 3_logo.jpeg
 4_home_about.jpg
 5_companies.jpg
 6_team1.jpeg
 7_team2.jpeg
 8_code_output.csv
 9_App_Description.pdf
 10_Glassdoor_Scraper_Final.ipynb

INSTRUCTIONS

- Unzip and save the whole folder in a set location, copy the file path where you saved your folder
- Open "2_Streamlit_Code.py" in any text-reader program like SublimeText and copy above file path within the single quotes in line 50, then save it

Access



```
Anaconda Prompt (anaconda3)
(base) C:\Users\34603>cd C:\Users\34603\IE Students\Las Bombas - Documents\NLP\NLP_Final_Submission_TeamB
(base) C:\Users\34603\IE Students\Las Bombas - Documents\NLP\NLP_Final_Submission_TeamB>streamlit run Streamlit_Code.py
```

Step 1

Open your Anaconda Prompt and change directory to the path in which you saved the folder using command "cd"

Step 2

Once you are in the correct directory, run the following command: "streamlit run Streamlit_Code.py"

Once the above steps have been completed successfully, a webpage browser should be prompted to open revealing the Jobify homepage. Welcome to Jobify!



Home Page

The home page consists of introductory information and the basic framework of the entire site.

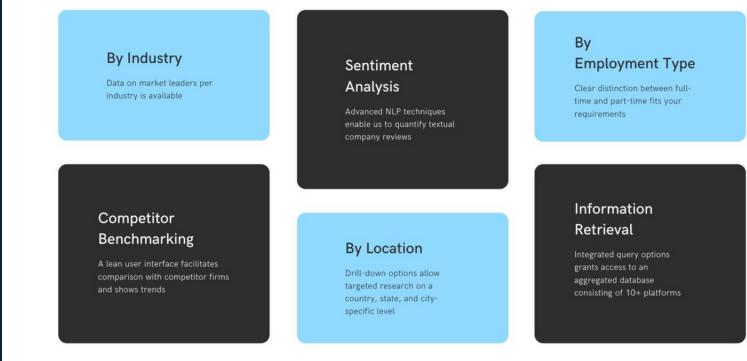
The most important things to note in the home page is the navigation panel in the sidebar on the left. This navigation panel will be available to you throughout the website to ensure that you can explore various web pages freely.

You can choose to close the sidebar using the "x" button in the top right corner of the sidebar. Likewise, you can re-open the sidebar at anytime by clicking the arrow in the top left corner of the page.

JOBIFY

Welcome to JOBIFY, your one-stop shop to help you find out everything you need to know about a company.

Cutting Edge Possibilities



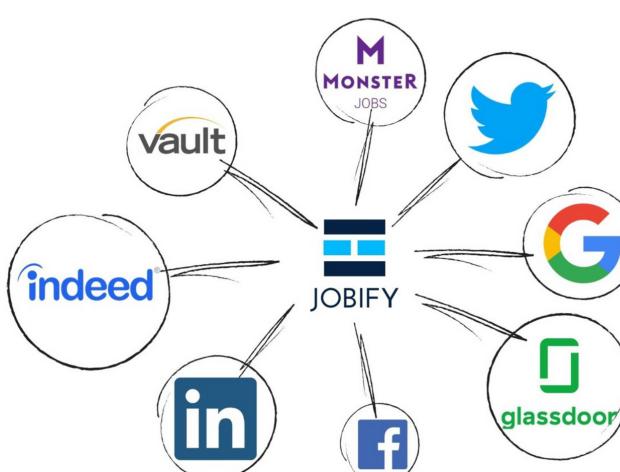


Navigation

Go to

- Home
- About Us
- Dashboard
- Drilldown

Unified Platform



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In the lower section, we give information about what the application is as well as pinning down which services we aim to harmonise!

Please note that the navigation panel stays available on the left and navigates you through the interface.

Dashboard Page

Top 10 highest rated companies

	Reviews	Score
MICROSOFT	4	0.6427
GOOGLE	36	0.4934
TENCENT	1	0.4809
APPLE	20	0.4774
TSMC	6	0.4456
FACEBOOK	13	0.4315
ADOBESTM	362	0.4215
INTEL	47	0.3852
NVIDIA	37	0.3718
SAMSUNG	43	0.3479

The dashboard page has additional filters in the sidebar: Industry, Country, State and City. These filters will affect the data you see in the entire dashboard page.

The State and City filters are dependent on the Country, meaning if "United States" is chosen, you will not be able to select states or cities belonging in another country.

In the actual dashboard, you have a total of two visuals, which can be seen in the pictures.

Navigation

Go to

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Select your industry:

Technology

Select your country:

United States

Select your state:

California

Select your city:

San Jose

Distribution of Scores:

Start date

2008/09/29

End date

2020/12/12

Start date: 2008-09-29

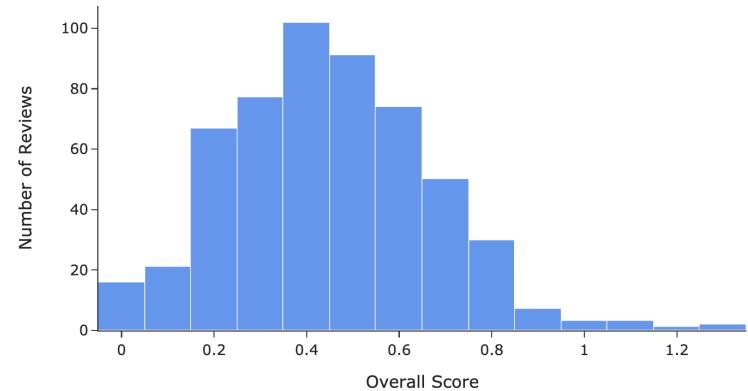
End date: 2020-12-12

Score Range

-0.67

1.34

Distribution of Overall Score



Company Ranking

This gives you a list of top 10 companies sorted by their calculated scores along with the number of reviews for each company.

Distribution of Overall Score

This shows a histogram of the score of each review that fulfils the filter requirements.

There are three filters that correspond to the histogram specifically: Start Date, End Date and Score Range.

Start Date's default value is the earliest review. You can select a date of your choice via a dropdown calendar.

End Date's default value is the most recent review date. You can select a date of your choice via a dropdown calendar. Please note that the start date cannot be later than the end date.

The Score Range is a slider in which you can select the range of scores the histogram shows.

Drilldown Page

Navigation

Go to

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- About Us
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- Drilldown

Select your company:

NVIDIA

Show pros

Show cons

Search Type

- Exact Match
- All Relevant

Company Drilldown

Distribution of Scores

Start date: 2008/04/23

End date: 2020/12/13

Start date: 2008-04-23
End date: 2020-12-13

Score Range: -0.63 to 1.21

Distribution of Overall Score

Overall Score Range	Number of Reviews
-0.5 to -0.25	~10
-0.25 to 0.0	~50
0.0 to 0.25	~180
0.25 to 0.5	~300
0.5 to 0.75	~280
0.75 to 1.0	~100
1.0 to 1.25	~20

Finally, we reach the drilldown page, the core of the Jobify application.

To start with, you can select a specific company to investigate. In the sidebar, we have conveniently located a dropdown menu.

The drilldown page features one pair of filters in the sidebar: **Show pros** and **Show cons**. This filter will affect the data you see in the entire drilldown page. You can choose to show both, or only one of two kinds of reviews (by default positives only).

In addition, we provide the two following options for the selected type of search: **Exact match** and **All Relevant**. The selection will impact the way your search query will be carried out.

In the actual drilldown, you have a total of two main parts:

Review and Score Visualisation

In this section, a histogram visualises the frequency of overall scores or reviews for the selected company.

1) Distribution of Scores

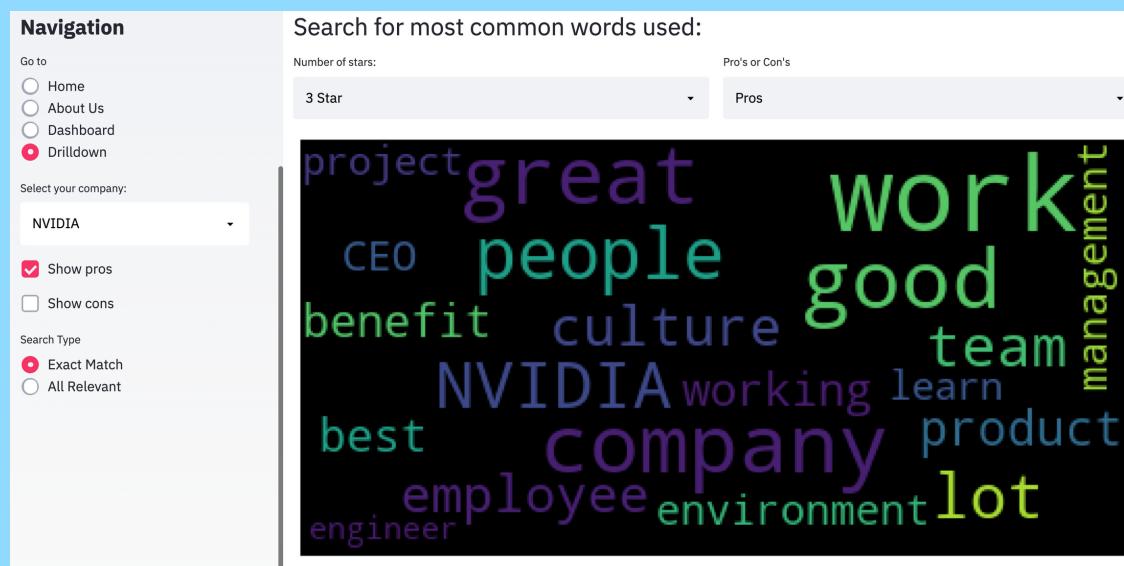
As can be seen in the above picture, we demonstrate the distribution of overall scores over a specific time period. Moreover, the interface allows to select a score range, that is, you can manually use the sidebar to set upper and lower boundaries to the scores you want to consider in your graph.

2) Distribution of Reviews

Referring back to the sneak peak in the instructions, we revealed one of the highlights of our tool. We provide a neat illustration of the overall scores either by geography or by employment type. In the latter case, it is possible to set sub-filters for employment status, and secondly for employment type, i.e. full-time, part-time, or unknown.

Search Queries

As a second key component of this drilldown page, we implemented a two additional search options. While the former is rather providing an overview of top used words, the latter displays an exhaustive search output.



1) Graphical Illustration of most frequent words

As a first selection dropdown menu, you can filter for the actual stars the reviews have received. This enables you to look for a specific level of review ratings, be it especially good, bad or neutral reviews. Secondly, you have the explicit choice of looking at negatively-labelled or positively-labelled reviews.

In the output, words appear in different sizes, where its size corresponds the frequency by which the words appear in the subset of reviews specified.

2) Information Retrieval

Here you can type a desired query getting all the documents in the corpus that match. Two filters were implemented to look for an exact search (matching all the words), or all relevant documents that match the search (taking into account the TFIDF).

In the output, it is first highlighted how many search results correspond to the exact open text query. Furthermore, the full set of rows that match in our database are retrieved.

Navigation

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Select your company:

NVIDIA

Show pros

Show cons

Search Type

- Exact Match
- All Relevant

Search for relevant reviews based on key words or sentences:

Input your search query

salary

Number of search results: 60

Results:

	Source	Employment Type	Date	Company	Country	City	Review Title	Reviews
515	Glassdoor	unknown	2015-11-06	NVIDIA	United States	Santa Clara	Decent place	Friendly work environment. Bright office space. Decent Salary (not competitive).
7	Glassdoor	full-time	2019-08-19	NVIDIA	United States	San Jose	Best Job I've Ever Had	Good Benefits all around, amazing salary, fun workplace, and amazing community
905	Glassdoor	full-time	2019-09-20	NVIDIA	United States	Fort Myers	The best company I have worked for in my life	Creator of amazing leading technology globally. Gives all employees equal opportunities. Generous with benefits. Fair with salaries.

Finally, we want to emphasise that the current interface only represents a proof-of-concept, and that we're eagerly working on a fully developed solution. The advanced version will give access to a much larger database and exhibit additional functionalities.