


Welcome to HelpJobs! – Application User Guide

Home Dashboard

Our initial landing page provides users a context of the application that they are using. We provide information on our objective of the application. At the same time, we shed some light on our data sources that were used for the application. We provided necessary credit for users to locate the root dataset if they ever require it.

Welcome to HelpJobs!



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**HELPJOBS, YOUR
ONE-STOP APP TO
GAINING AN EDGE
IN JOB HUNTING**

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- Team 2

HelpJobs is a Shiny Application which aims to help you job hunters *better understand Singapore's job market more comprehensively*. It allows for easier visualization of the job market scene, and includes **features** such as:

- Finding out the most popular skills companies look for in individuals
- Comparing the salary distribution between various industries
- Job demand and cycle effects
- Universities and their respective salaries

and so much more!

Whether you're a fresh grad looking for a job, someone looking to make a career switch or someone trying to plan their education and career, HelpJobs has something for you!

Data Sources:

Web Scraped from MyCareersFuture Job Portal

Company	Job Category (Industry)	Minimum Salary	Max Salary	Adjusted Salary	Created At (Date of Job posting)	Skills	Latitude	Longitude
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- Data from 2020 - current

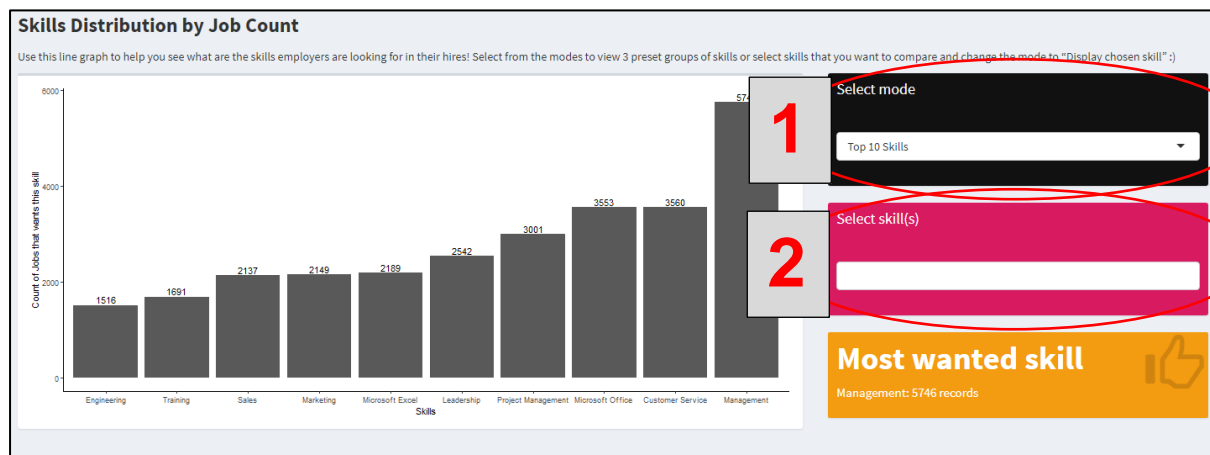
GES Survey Data - from data.gov.sg

Year	University	School	Degree	Employment Rate	Basic Monthly Mean
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- Data from 2013 - 2018

Skills vs Job

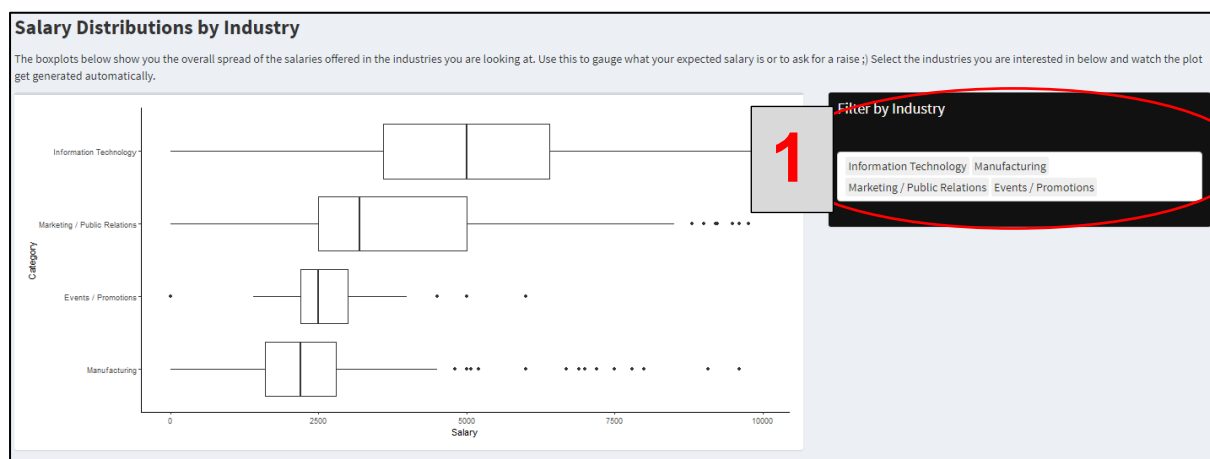
Users can leverage on this tab to filter across different skills that are available within the dataset. This helped users to better compare the demand of skills that were demanded within the market.



- 1) Users can alternate between certain preset filters within the **Select mode** such as "Top 10 Skills", "Programming Skills" and "Business Development Skills".
- 2) Users can also individually identify skills that they are interested by typing in their interests within the **Select Skills** textbox.

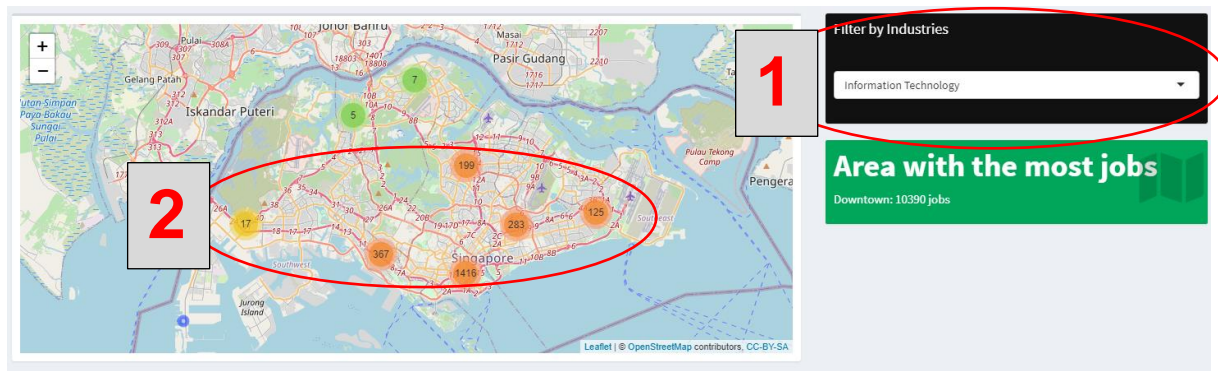
Salary Distribution By Industry

Users can indicate the Industry that they are interested in so as to analyse the median and spread of salary within that particular industry. They could also cross check across multiple industries and reach actionable insights by observing the boxplots.



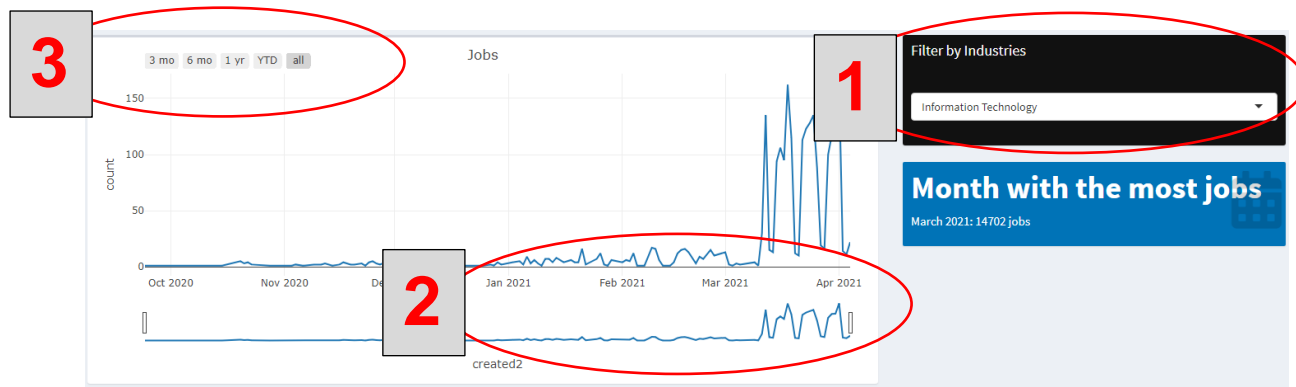
- 1) Users can individually identify the Industry that they are interested in by typing in their specific interest within the **Filter by Industry** textbox. This textbox supports multiple selection.

Where are the jobs located?



- 1) Users can utilize the drop-down list at **Filter by Industry** to identify with a particular industry to be displayed within the map visualisation.
- 2) Users can interact with the interactive map to drilldown into specific locations of interest by clicking on the circles within the map.

Month with most jobs

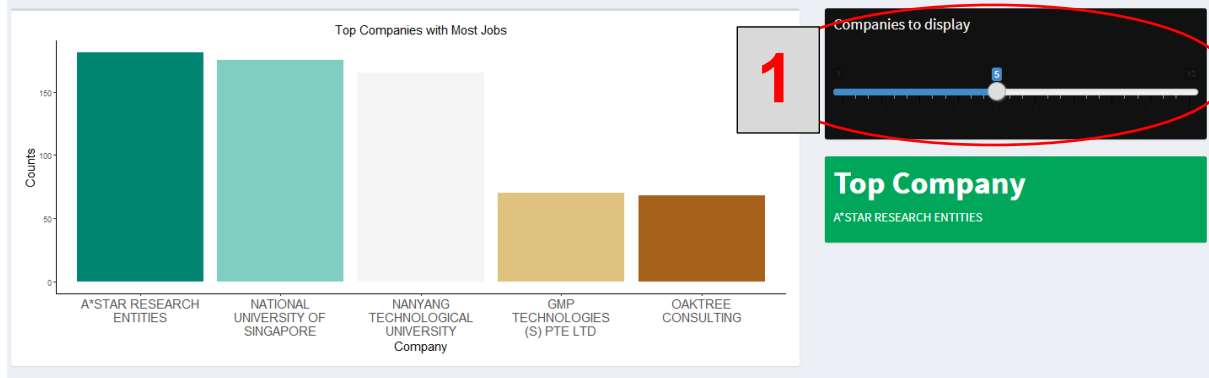


- 1) Users can utilize the drop-down list at **Filter by Industry** to identify with a particular industry to be displayed within the map visualisation.
- 2) Users can interact with the interactive chart and drag across the chart to filter across time period.
- 3) Users can select pre-set time period within the chart to jump to specific analysis points.

Companies with most listings

Companies With Most Listings

This bar graph shows the companies which have the most listings on the platform. Find out who are hiring and go get your dream job! Use the slider to narrow your search to how many companies you are interested in :)

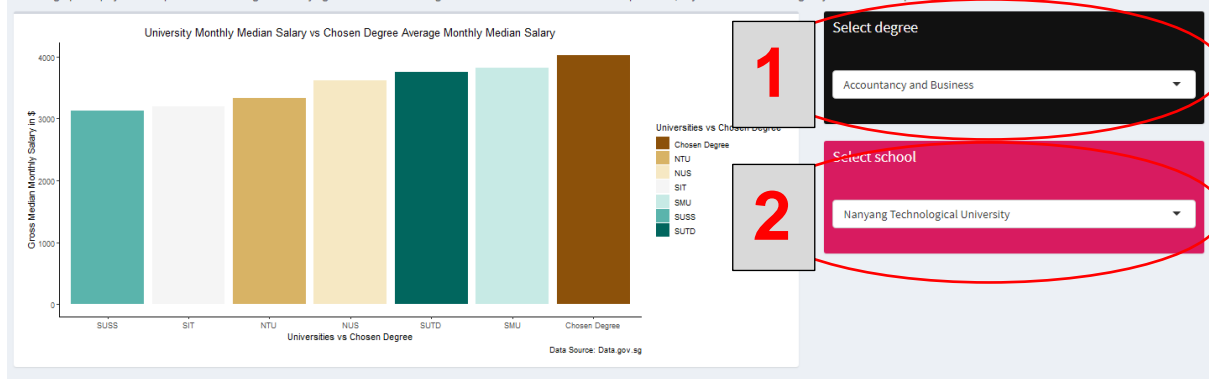


- 1) Users can utilize the slider at **Companies to display** to the number of top companies they would like to display for analysis.

Salary vs University

Salary vs University (Chosen Degree)

The bar graph helps you a compare a selected degree's salary against that of the average from 6 different universities. In the input fields, key in the school and degree you want to compare :)

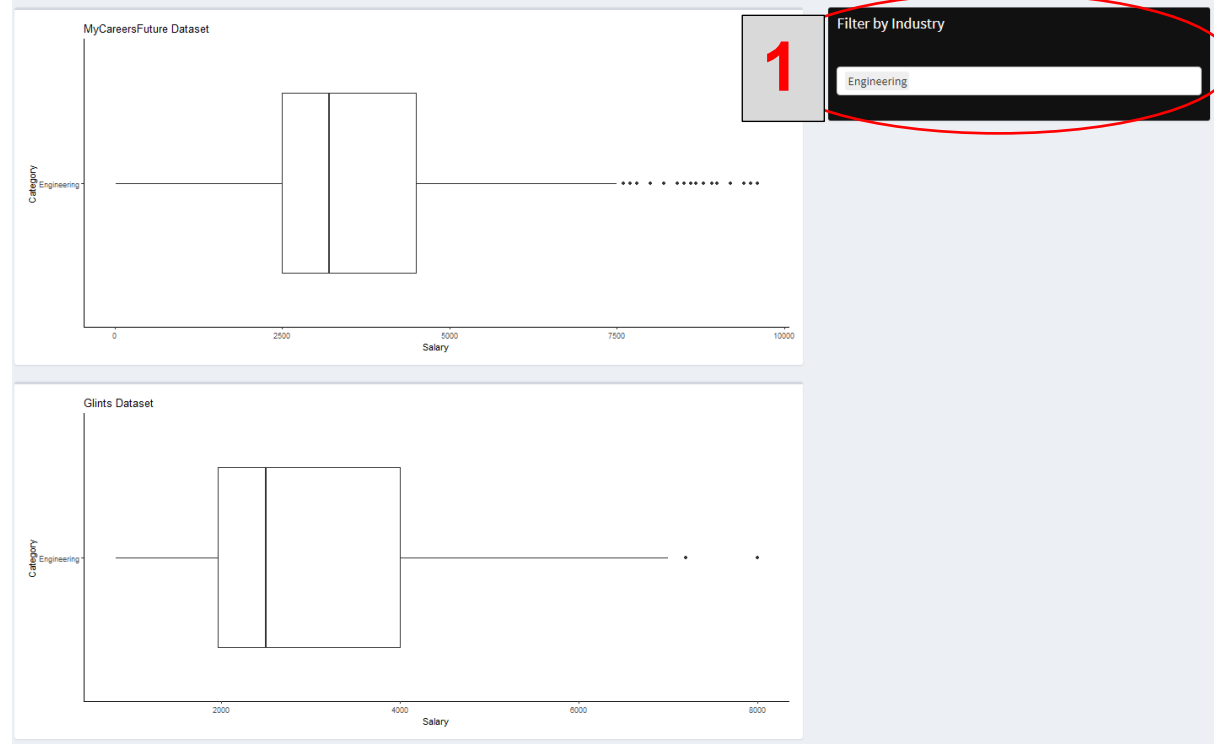


- 1) Users can utilize the drop-down list at **Select degree** to identify with a particular degree within the database to be included within the bar graph visualisation.
- 2) Users can utilize the drop-down list at **Select school** to identify with a school that has the specified degree so that it will appear promptly within the bar graph visualisation.

Glints vs MyCareersFuture

Salary Distributions by Industry

The boxplots below show you the overall spread of the salaries offered in the industries you are looking at. Use this to gauge what your expected salary is or to ask for a raise ;) Select the industries you are interested in below and watch the plot get generated automatically.



- 1) Users can utilize the drop-down list at **Filter by Industry** to identify with a particular industry that they would like to compare across platforms. They can potentially add multiple industries to the filter as well.

Data Exploration – Jobs

Job Data Explorer

The interactive table provides details on job openings, in a simple to use, accessible format. Key in a search term to find jobs that match. Use the sort functions to help you easily find what you are looking for and modify the entries to show to scope down the results!

Show **10** entries

	Company	Job Category	Title	Min Salary	Max Salary	Adjusted Salary	Created At	Skills	Lat	Lng
1	TITANSOFT PTE. LTD.	Information Technology	Senior Software Developer	6000	11000	6800	2021-03-04T01:19:11Z	['.NET', 'Agile Methodologies', 'C#', 'Information Technology', 'Java', 'JavaScript', 'Job Descriptions', 'Microsoft Technologies', 'Software Development', 'SQL', 'Web Services', 'XML', 'feasibility', 'Plan', 'system', 'recognition', 'Agile Development']	1.283046169	103.8416101
2	TITANSOFT PTE. LTD.	Information Technology	Software Developer	4000	5999	4000	2021-03-04T01:14:22Z	['.NET', 'C#', 'C++', 'Information Technology', 'Java', 'JavaScript', 'Job Descriptions', 'Microsoft Technologies', 'MySQL', 'OODAD', 'Software Development', 'SQL', 'XML', 'Software developing', 'feasibility', 'Plan', 'recognition']	1.283046169	103.8416101
3	HAO MART PTE. LTD.	Logistics / Supply Chain	Class 4 Delivery Driver 送货司机	2500	2800	2500	2021-04-04T11:02:40Z	['Change', 'Content Delivery', 'Customer Service', 'Driving', 'Driving License', 'Logistics', 'Maintenance', 'Punctual', 'Service Delivery', 'Vehicle']	1.339214313	103.9716572
4	VISION DISPLAY PTE. LTD.	Advertising / Media	Sales Executive	2500	4000	2600	2021-04-04T10:52:15Z	['Account Management', 'Budgets', 'Business Development', 'Customer Service', 'Event Planning', 'Job Descriptions', 'Management', 'Marketing', 'Marketing Strategy', 'New Business Development', 'Sales', 'Sales Management', 'Social Media', 'Workshops', 'reviewing', 'business opportunities', 'industry trends', 'Evaluating', 'positive working relationship', 'Technical knowledge']	1.330974668	103.8957781
5	CAPITOL HOTEL MANAGEMENT PTE. LTD.	Customer Service	Senior Front Office Supervisor / Junior Duty Manager	2500	3000	2500	2021-04-04T10:45:15Z	['Analytical Skills', 'Commitment to Customer Service', 'Complaint Management', 'Customer Service', 'Flexibility', 'Front Office', 'Hospitality', 'Hospitality Industry', 'Hotels', 'Opera', 'Outstanding Customer Service', 'Receptionist Duties', 'Supervising']	1.29416211	103.8507106
6	CIBA VISION ASIAN MANUFACTURING AND LOGISTICS PTE. LTD.	Manufacturing	Production Technician	2000	2800	2000	2021-04-04T10:41:10Z	['cGMP', 'Clean Rooms', 'Compliance', 'Continuous Improvement', 'Kaizen', 'Machine Tools', 'Maintenance', 'Manufacturing', 'Production', 'Quality']	1.29021833	103.6285679
7	VISION DISPLAY PTE. LTD.	Advertising / Media	Customer Relations Officer	2500	3500	2500	2021-04-04T10:36:23Z	['Advertising', 'Business Development', 'Corporate Communications', 'Customer Service', 'Event Management', 'Event Planning', 'Management', 'Marketing', 'Marketing Communications', 'Marketing Strategy', 'Media Relations', 'Online Marketing', 'Public Relations', 'Social Media', 'Social Media Marketing', 'Strategic Communications', 'Team Management', 'company website', 'Fax 2 Email', 'customer refunds']	1.330974668	103.8957781
8	WHITE-KYI-KYI EMPLOYMENT AGENCY	F&B	OUTLET SUPERVISOR	1800	3200	2000	2021-04-04T10:21:21Z	['Costing', 'Hygiene', 'Inventory', 'Languages', 'service oriented', 'communicate', 'Initiative', 'cashiering duties', 'improved customer retention', 'respond to customers']	1.316441189	103.882964
9	SG EDUCATION AGENCY	Admin / Secretarial	Admin Assistant & Coordinator (FUN Environment + Attractive Monthly Team Bonuses)	2300	2800	2300	2021-04-04T10:13:01Z	['Administrative Support', 'Business Operations', 'Customer Service', 'Data Entry', 'English', 'Management', 'Microsoft Excel', 'Microsoft Office', 'Microsoft Word', 'PowerPoint', 'Teamwork', 'Time Management']	1.359945559	103.8341661
10	ONE DOZEN HOLDINGS PTE. LTD.	F&B	Cook	2000	3000	2000	2021-04-04T10:10:47Z	['Cooking', 'Customer Service', 'Food Safety', 'Microsoft Excel', 'Microsoft Office', 'Microsoft Word', 'Passionate', 'Teamwork', 'Time Management', 'Workshops', 'reviewing', 'business opportunities', 'industry trends', 'Evaluating', 'positive working relationship', 'Technical knowledge']	1.278706192	103.8484191

Showing 1 to 10 of 20,701 entries

Previous 1 2 3 4 5 ... 2071 Next

- 1) Users could utilise the textbox to locate specific strings that they would like to identify within the data explorer.
- 2) Users could select the arrows beside each column to sort by ascending or sort by descending.
- 3) Users can utilise the pagination function to progress within the data source.

Data Exploration – Skills

Skills Data Explorer

The interactive table provides you details on the popularity of skills, in a simple to use, accessible format. Key in a search term to find skills that match. Use the sort functions to help you find what you're looking for and modify the entries to show to scope down the results!

Show 10 entries

	Skill	Count
1	Management	5746
2	Customer Service	3560
3	Microsoft Office	3553
4	Project Management	3001
5	Job Descriptions	2567
6	Leadership	2542
7	Microsoft Excel	2189
8	Marketing	2149
9	Sales	2137
10	designed	1754

Showing 1 to 10 of 12,400 entries

previous 1 2 3 4 5 ... 1240 Next

- 1) Users could utilise the textbox to locate specific strings that they would like to identify within the data explorer.
- 2) Users could select the arrows beside each column to sort by ascending or sort by descending.
- 3) Users can utilise the pagination function to progress within the data source.