

# Job Fiction – Screen shots taken from presentation recording.

<https://www.ischool.berkeley.edu/projects/2016/job-fiction>

Job Fiction is a group project looking at using NLP in job searching. *Application not running at this time*

Presentation: <https://prezi.com/fhtm-cfni6iq/view>

Website: <http://jobfiction.s3-website-us-west-1.amazonaws.com/>

Source Code: <https://github.com/RajeshThallam/job-fiction>

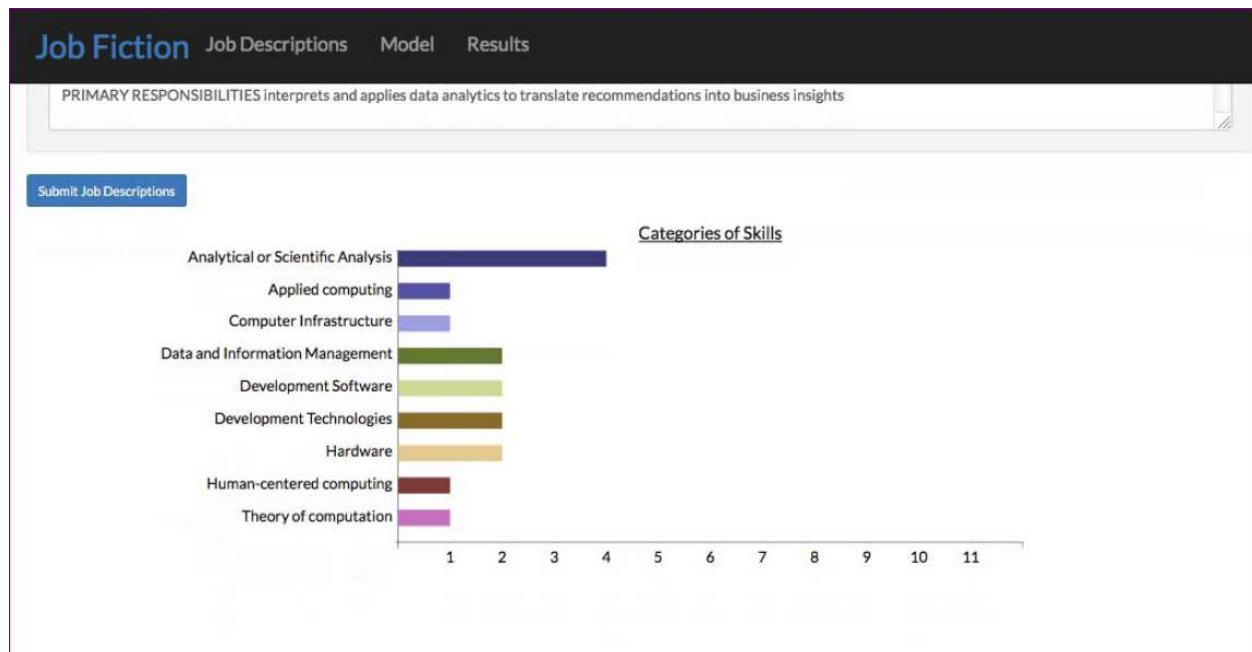
These screenshots were taken from a video recording demonstrating the program. Commentary is added to explain the screens.

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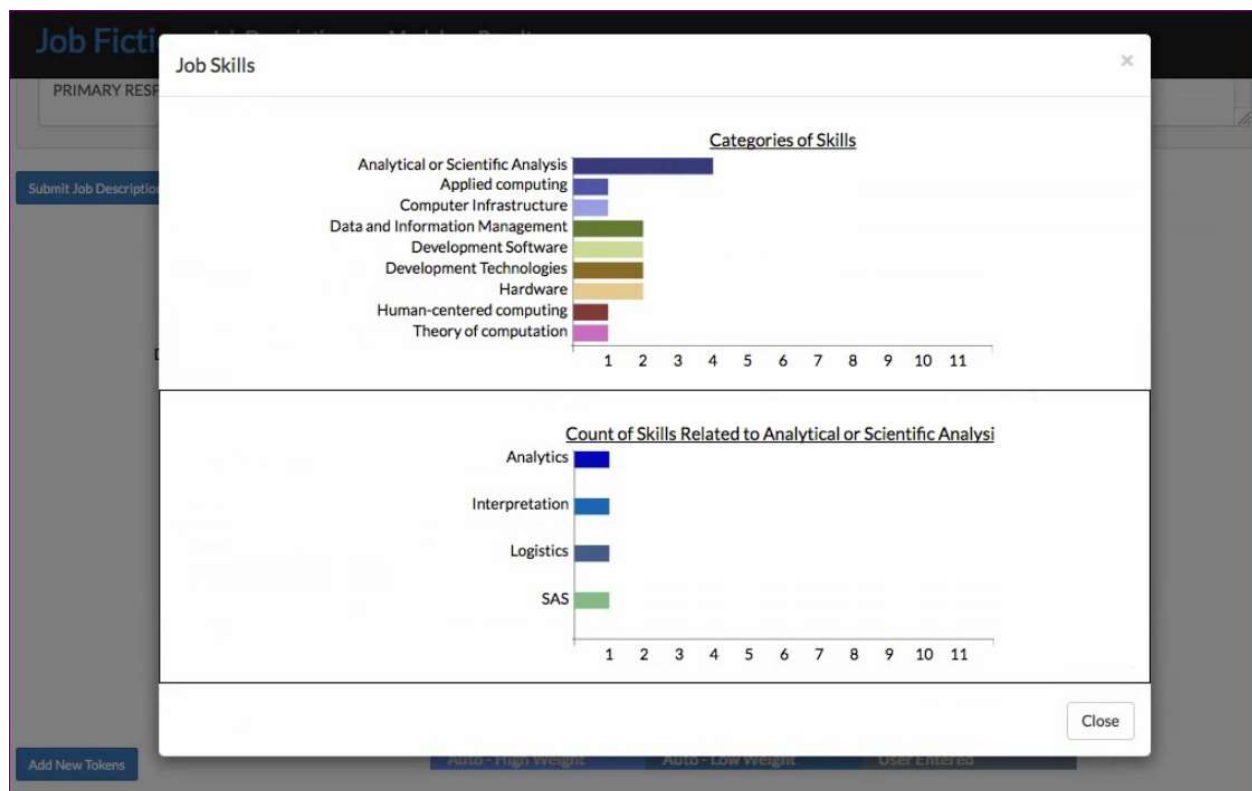
Page showing entering three job descriptions; up to three jobs descriptions were allowed. We collected both the title and the description.

The screenshot shows the 'Job Fiction' web application interface. At the top, there is a dark navigation bar with the text 'Job Fiction' in blue and 'Job Descriptions', 'Model', and 'Results' in white. Below this, the main heading 'Job Descriptions' is centered, followed by the instruction 'Enter the descriptions of up to three jobs you currently are interested in.' Below the instruction, there are three tabs labeled 'Job 1', 'Job 2', and 'Job 3'. The 'Job 1' tab is selected. Under the 'Job 1' tab, there is a form with two sections: 'Title:' and 'Description:'. The 'Title:' section has a text input field containing 'Sr. Data Analyst'. The 'Description:' section has a large text area containing the following text: 'Data scientists interpret and apply data in analyses, and explain findings to business audiences typically, to improve products and processes. Projects support business decision making for multiple business functions. Designs, creates, implements, and manages predictive analytics that leverage large and varied datasets, using a wide range of analytical tools, methods, and platforms.' Below this text area, there is a line of text: 'PRIMARY RESPONSIBILITIES interprets and applies data analytics to translate recommendations into business insights'. At the bottom left of the form, there is a blue button labeled 'Submit Job Descriptions'. A mouse cursor is visible over the button.

Showing categories of the skilled identified in job descriptions; we tokenized the descriptions and created a chart showing where the skills landed, creating a “picture” of the job submitted.



Taking a closer look at the skills within the Analytical or Scientific Analysis category; clicking on the bars above allows the user to see what specific skills are included. These specific skills will become the building blocks to creating the fictional job.



Modeling the perfect job – taking the skill tokens and moving them between Must Have, Nice to Have, Indifferent and Exclude to create the best representation of the perfect job. Each token is drag/drop between the columns. Users were also able to add tokens that were not pulled from the job descriptions. Shading of the tokens indicated if the system previously determined that the skill is a must have or not based on the frequency it appeared in the job descriptions.

**Job Fiction** Job Descriptions Model Results

### Must Have

These tokens will influence the job results as the highest priority

Design

Interpreters

Mathematics

Mathematics and statistics

Passionate

Statistical

Neural networks

### Nice to Have

These tokens will influence the job results

Analytics

Collaborating

Data Manipulation

Data Science

Data mining

Datasets

Flexibility

Hive

Interpretation

Logistics

Python

### Indifferent

These tokens will not influence the job results

SAS

### Exclude

Jobs with these tokens may be excluded

Mobile

Job Fiction

Job Descriptions

Model

Results

## Job Search Matches

Refresh Results

Filter: What you looking for?

Title	Company	Location	Class	Model Score	
Senior Manager, Data Science	Numeric, LLC	New York, NY	Data Science Related	58.67	⬆
1 Data Scientist & 2 Data Quality tool experts needed in Trillium/Dataflux!	IT Resource Solutions.net, Inc.	New York, NY	Data Science Related	55.31	⬆
Data Scientist	Infinity Consulting Solutions	New York, NY	Data Science Related	54.21	⬆
Data Scientist	The Washington Post	Washington, DC	Data Science Related	53.89	⬆
Data Scientist	IT Concepts Inc.	Washington, DC	Data Science Related	52.34	⬆
Predictive Modeler	PSRI Technologies	Lanham, MD	Data Science Related	51.68	⬆
Data Scientist (Intern / Full time)	RangTech	Township of Piscataway, NJ	Data Science Related	51.34	⬆
Statistician	Russell Tobin & Associates	Bridgewater, NJ	Data Science Related	50.93	⬆
Statistician	Russell Tobin & Associates	Bridgewater, NJ	Data Science Related	50.93	⬆
Data Scientist	netPolarity	Hopkinton, MA	Data Science Related	49.30	⬆
Quantitative Analyst [2015-1616]	Eagle Ray, Inc.	Kingstowne, VA	Data Science Related	47.28	⬆

[Job Fiction](#)
[Job Descriptions](#)
[Model](#)
[Results](#)

## Job Search Matches

[Refresh Results](#)

Filter: What you looking for?

Title

Company

Location

Class

Model Score

[More Information / Apply](#)

Skill Category	Number Matches
Must Have	0
Nice to Have	0

Categories of Skills

Skill Category	Frequency
Analytical or Scientific Analysis	5
Data and Information Management	3
Development Software	2
Development Technologies	2
Social and professional topics	2

Senior Manager, Data Science

Numeric, LLC

New York, NY

Data Science Related

58.67

[More Information / Apply](#)

Skill Category	Number Matches
Must Have	0
Nice to Have	0

Categories of Skills

Skill Category	Frequency
Analytical or Scientific Analysis	4
Data and Information Management	3
Development Software	2
Development Technologies	3
Human-centered computing	1
Social and professional topics	4

1 Data Scientist & 2 Data Quality tool experts needed in Trillium/Dataflux!

IT Resource Solutions.net, Inc.

New York, NY

Data Science Related

55.31