

what

job title, keywords, or company

where

city, state, or zip code

data



Find Jobs

Page 1 of 495,918 jobs

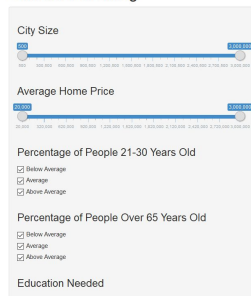
[Post your resume](#) – It only takes a few seconds

[Employers: Post a job](#) – Your next hire is here

Getting Hired? indeed®

Carlo's Job Search: The WHERE and WHEN

Standard of Living



A map of the United States with a red dot indicating a location in the Northeast, near New York City. The map shows major cities and states. A search bar at the bottom left contains the text "Show 18" and "entire". A legend at the bottom center lists various locations: "Lehigh Valley, New York City, New Jersey, New York,

Datafest Wesleyan

$Q(u)ac(ks):$
Carlo, Fred, Kelly, Tiffany


April 8, 2018

Nursing Assistant



Carlo's Dilemma



- **Expertise:** No clue - where to work? when to apply?
- **Time:** Busy with exams, projects, work and having a lit senior year
- **Solution?** 
- **Jobs in Data:**


What
data 

Job Title, Keywords Or Company


Find Jobs

Page 1 of 495,918 jobs

- **Narrow it down:**

Where
San Francisco, CA 

City, State, Or Zip

Where
NYC, NY 

City, State, Or Zip

Page 1 of 16,072 jobs

Page 1 of 28,900 jobs



- **So ... what now?**

Advanced Job Search

Find Jobs

With **all** of these words

With the **exact phrase**

With **at least one** of these words

With **none** of these words

With these words in the **title**

From this **company**

Show jobs of type

Show jobs from

☐ Exclude staffing agencies

Salary estimate per year

You refined by:

Full-time ([undo](#))

San Francisco, CA ([undo](#))

Facebook ([undo](#))

\$95,000+ ([undo](#))

Salaries estimated if unavailable

Jobs: Where?! When?!

Link to Shiny App

Where

- Map: “Where can I live/work?” & “What is expected of me?”
 - City-specific: age-demographics, population, housing prices
 - Job-specific: industry, company rating, education and work experience requirements
- Points: “How good of a deal is it here?”
 - Standard of Living (housing prices / salaries) → bigger circle is better

When

- “When are all my jobs hot?”/ “When should I be applying?”
- “When do I apply to make the most bang for my buck?”



Techniques/ Limitations:

Techniques:

- Imputation of industry variable by **Random Forest**
- Use of external data (**Zillow** and **US Census**)
- Integrated the **Leaflet** package in our **Shiny** application

Limitations:

- **Only one year of data**: no trend analysis possible
- Heavily **censored** data: missing values and added noise

Getting Hired? indeed®