



JOB MATCHING

DECIDING BY DATA

Kara Bethany Liu

MOTIVATION

- JOB-SEEKERS:
IDENTIFY ROLES
THEY ARE MOST
SUITED FOR
- EMPLOYERS:
ROUGH
IDENTIFICATION
FOR THE RIGHT FIT
- I WANT YOU TO
HIRE ME





data scientist resumes
Sort by: relevance - date

Last Updated
within last 6 months

Job Titles
 Data Scientist 1300+
 Data Scientist Intern 100+
 Senior Data Scientist 100+
 Data Analyst 60+
 Lead Data Scientist 30+
 Research Assistant 10+

Company
 Metis 10+
 IBM 10+
 Booz Allen Hamilton 10+
 THE NIELSEN 10+
 Deutsche Bank 8
 Community Health Systems 7
 Microsoft 7
 Santander Bank 7
 ConnectOne Bank 7
 Inspira Health Network 6
 Dialog Direct 5
 WSFS Bank 5
 Comcast 5
 JP Morgan Chase 5

Years of Work Experience
 Less than 1 year 100+
 1-2 years 300+
 3-5 years 1000+

what
Job title, skills, or company

where
City, state, or zip

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4,487 resumes



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Data Scientist - Recently Updated

Data Scientist - Utah State University
Data Scientist - CAPGEMINI
Utah State University, Master of Science
Updated: Sep 5

Data Scientist - Austin, TX - Recently Updated

Data Scientist - Cerebri AI
Data Scientist - Smarter Sorting
University of Manchester, Ph.D.
Updated: Sep 4

Data Scientist - Macomb, MI - Recently Updated

Data Scientist - Utility Company (confidential)
Data Scientist - TATA CONSULTANCY SERVICES (TCS)
Data Scientist - Boeing (TCS Contract)
OAKLAND UNIVERSITY, Bachelor of Arts
Updated: Sep 13

Data scientist - Singapore - Recently Updated

Data scientist - National health group singapore
Data Scientist
Nanjing university
Updated: Aug 31

Data Scientist - Silver Spring, MD - Recently Updated

Data Scientist - Jacobs Engineering Inc
Data Scientist - CGI

DATA

- ~85,000 RESUMES
- DATA ANALYSTS | DATA SCIENTISTS | DATA ENGINEERS
 - Labeled Dataset
 - FuzzyWuzzy

EXAMPLE RESUME

(My Resume)

KARA BETHANY LIU

DATA SCIENTIST | ANALYST

✉ karabethanyliu@gmail.com ☎ +1-415-670-0729
📍 San Francisco, CA
in kara-bethany-liu-20840895

EDUCATION

National University of Singapore
Economics 2015

CFA Level 1
Completed CFA Level 1 Exam 2016

SKILLS

PROGRAMMING: Python, SQL, R, MongoDB, AWS, Tableau, Flask
PACKAGES: Pandas, SKLearn, Matplotlib, Numpy, BeautifulSoup, Selenium, Plotly, Spacy
MODELING: Regression / Classification, Unsupervised Learning / Clustering, Feature Engineering, NLP, Data Wrangling
COMMUNICATION: Negotiations, Report Writing
LANGUAGES: English (Native), French (Professional), German (Basic), Mandarin (Basic)

SUMMARY

Data scientist | analyst with experience negotiating Free Trade Agreements for Singapore, the financial services sector (tax and venture cap) and background in quantitative economics. My data projects include the use of statistics, hypothesis testing, and machine learning in order to analyze and predict human behavior.

EXPERIENCE

JOBSCAN.CO
Data Science Intern

Nov./2018 to Current

Customizing a Named Entity Recognizer (NER) for job advertisements by training a convolutional neural network model with Spacy.

METIS
Data Science Fellow

San Francisco
July/2018

Developed several data projects as part of a selective 12-week data science immersive used to hone, expand, and contextualize skills in statistical modeling and machine learning.

- Job Matching: Deciding by Data - Built a model to determine what kind of data-related role (analytics, science, engineering) a resumé is best matched with. Cleaned data from Indeed.com and stored onto MongoDB. Utilised various NLP tools such as FuzzyWuzzy and W2V. Ran supervised categorical algorithms on AWS. Created a Flask WebApp on Heroku.
- Chatting with Bots - Analyzed and recommended suitable findings from messages sent to various chatbots deployed over Facebook by Prime.ai. Merging and cleaning Messages, Followers and Pages json files stored on AWS. Unsupervised learning (K-Means) and NLP. TSNE plots to visualize clusters.
- Crime in SF - Analyzed neighborhoods in SF that would require targeted police attention. AWS and PostgreSQL to manage data. Supervised categorical algorithms. Tableau and Flask web app visualizations.
- Predicting Hotel Prices on Booking.com - Scrapped data off booking.com using BeautifulSoup and Selenium. Python/Pandas for feature engineering and transformation. Seaborn to visualize data.

MINISTRY OF TRADE AND INDUSTRY (SINGAPORE)
Assistant Director

Singapore
Jan./2017 to June/2018

- Negotiated market access and rules of origin chapters in Free Trade Agreements (FTAs) for Singapore with countries such as Sri Lanka, New Zealand, Russia and Mexico.
- Analyzed and determined Singapore's industry and company interests to strategically front them in FTAs by consulting with companies from various industries and agencies and analyzing tariff data and the origin of Singapore goods.
- Negotiated the Fisheries Subsidies Agreement at the WTO, which aims to encourage sustainable fishing practices by monitoring and disciplining them.
- Handled other trade in goods issues like the implementation of the Trade Facilitation Agreement and recourse for violations in the WTO or any trade agreements.

KPMG | QUANTERA GLOBAL
Transfer Pricing Intern | Consultant

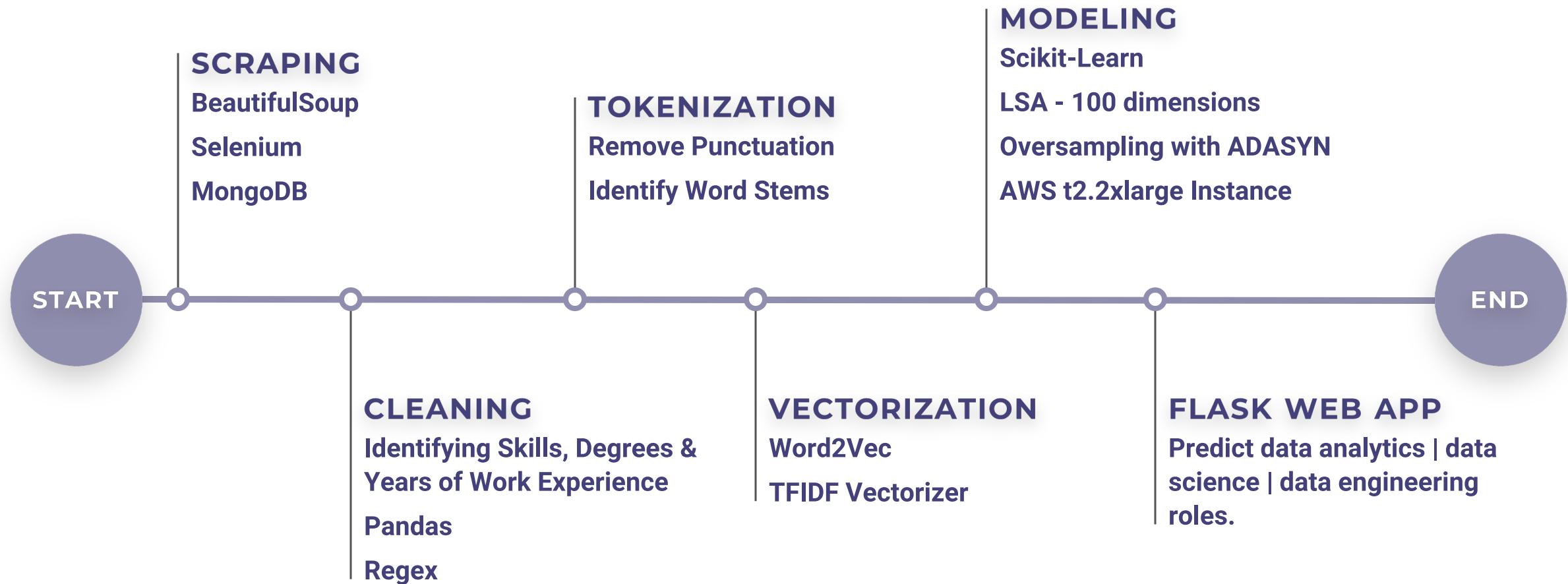
Singapore
May/2015 to July/2015, Apr./2016 to Nov./2016

Advised MNCs on suitable profit levels for taxation purposes after conducting financial analyses using indicators best suited for the industries they operate in.

IMPACT INVESTMENT EXCHANGE
Corporate Finance Apprentice

Singapore
Aug./2015 to Dec./2015

CLEANING AND PROCESSING



BEST MODEL

Support Vector Classifier - TFIDF

- **RESULTS**

- 0.95 Accuracy score on Train Set
- 0.83 Accuracy score on Test Set
- Overfitting - need more data.
- 0.33 Dummy Score

- **OTHER MODELS**

- Gradient Boosting Classifier
- Log Regression Classifier
- With W2V



INTRODUCING THE “WHICH DATA ROLE?” APP

<https://whichdatarole.herokuapp.com/>

Video

THANK YOU FOR YOUR TIME!



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