

Tonia (Tong) Chu

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Objective: Seeking Data Scientist or Data Analyst Positions

Skills:

- **Machine Learning:** classification, regression, clustering, feature engineering
- **Software and Programming Languages:** Python (scikit-learn, NumPy, SciPy, pandas, gensim), R, Rstudio, SQL, Microsoft Excel
- **Data visualization:** ggplot2, matplotlib, pandas, seaborn, Bokeh
- **Language:** Mandarin Chinese

Projects:

Factors affect engagement and satisfaction of employees in the Federal workforce (coded in R)

- Analyze the data of FEVS and identify the working status.
- Build a model to predict employees' satisfaction and engagement of the department.
- Give results on in which respect and how to improve the feelings of federal employees.

Factors associated with differences in Life Expectancy across the United States (coded in Python)

- Characterize life expectancy by income, over time, and across areas.
- Characterize correlates of the spatial variation and construct publicly available statistics.
- Build model to predict the life expectancy of individuals by their age, income, living area and other aspects.

How many stars will I give? Predicting ratings of Amazon reviews (coded in Python)

- Text analysis with modern NLP techniques.
- Develop model that are able to predict the user rating from the text review.

Education:

Capstone Projects, Springboard

- Acquire, cleanse, persist, and research datasets.
- Analyze data and investigate drivers of benefit performance using R and/or Python.
- Use machine learning methodologies to make models and predictions.
- Conduct analysis and give recommendations on surveys regarding employees' satisfaction and engagement of the department.
- Research on factors affect life expectancy across the United States and find methods to improve it.

Certification

- Microsoft Certified Solutions Associate: SQL Server 2012/2014 2016
- Microsoft Technology Associate: Database Fundamentals

Tsinghua University, Beijing, China

Master of Science in Microelectronics 1996
Bachelor of Electronic Engineering 1994

Working Experience:

SQL Server DBA & Data Analyst

01/2014 – 01/2017

ACE Data Services LLC

Chicago, IL

- Analyzed data and developed recommendations to improve marketing efforts.
- Improved performance and functions by resolving database related incidents and requests.
- Worked with software programmers to manage SQL Server tables and Stored Procedures.
- Supported database replication, log shipping, mirroring, backup, and recovery.

Product Instructor**03/2012 – 05/2013****Raqsoft Co. Ltd.****Beijing, China**

- Created SQL self-study materials and video media for university student candidates.
- Composed Raqsoft product manual which was used by employees and public users.
- Created video and audio training media for customers and employees on main product.
- Evaluated potential employees and made hiring recommendations to manager.

Volunteering:**Shen Yun Performing Arts****10/2013 – present**

Volunteer for local presenter of the Shen Yun Performing Arts company

Work Authorization: Fully Work Authorized. Permanent resident.