TONIA CHU   DATA SCIENTIST / DATA ANALYST

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SUMMARY

Seeking Data Scientist or Data Analyst Positions

EDUCATION

Springboard
Data Science 2017
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.

Tsinghua University, Beijing, China
Master Microelectronics 1996
Bachelor Electronic Engineering 1994

EMPLOYMENT

ACE Data Services LLC, *SQL Server DBA & Data Analyst*, Chicago, IL   Jan 2014 - Jan 2017
Analyzed data and developed recommendations to improve marketing efforts by 20%.
Participated in development of analytic methodologies, reports and products.
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.

Raqsoft Co. Ltd., *Product Instructor*, Beijing, China   Mar 2012 - May 2013
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.

SKILLS

DATA SCIENCE: Machine Learning:classification, regression, clustering, feature engineering,
Programming Languages: Python (scikit-learn, numpy, scipy, pandas, gensim), R, SQL, Microsoft Excel, Data Visualization: ggplot2, Matplotlib, Seaborn
LANGUAGE: Mandarin Chinese

PROJECTS

Factors affect engagement and satisfaction of employees in the Federal workforce   Oct 2016 - Jan 2017
The purpose of this project is to analyze the data of FEVS and identify the working status and give results on in which respect and how to improve the feelings of federal employees, measure employees' perceptions of whether, and to what extent, conditions characterizing successful organizations are present in their agencies.

Factors associated with differences in Life Expectancy across the United States coded in python   Feb 2017 - Aug 2017
The purpose of this project is to characterize life expectancy by income, over time, and across areas. I characterized correlates of the spatial variation and constructed publicly available statistics. I will build a 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   Sep 2017 - Current
The purpose of this project is to develop models that are able to predict the user rating from the text review. While our model is built to work with any kind of product, the review dataset provided by Amazon only includes book reviews.

VOLUNTEERING

Shen Yun Performing Arts   Current
Volunteer for local presenter of the Shen Yun Performing Arts company