**SONG WANG Data Scientist**

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Basking ridge, New Jersey

**Summary**

Scientist with 3+ years of experience executing data-driven solutions to increase efficiency, accuracy, and utility of internal data processing. Experienced at creating data regression models, using predictive data modeling, and analyzing data mining algorithms to deliver insights and implement action-oriented solutions to complex technical and business problems.

**Skills**

Python/SQLite3/PostgreSQL Machine learning Natural language processing Statistical analysis

Data mining/processing Data visualization Data cleaning Experimental design

**Recent Projects**

Bank Marketing | GitHub:

<https://github.com/sw299/Thinkful_Capstone_Projects/blob/master/capstone_supervised_learning.ipynb>

* Utilized machine learning algorithms to predict if clients will subscribe deposit service and achieving 88% accuracy
* Tech:  Knn/Random Forest/Gradient Boosting/SVM/Logistic Regression PCA Cross validation/Accuracy score

Credit Card Fraud Detection | GitHub: <https://github.com/sw299/Thinkful_Capstone_Projects/blob/master/capstone_unsupervised_learning.ipynb>

* Conduct clustering algorithms and dimension reduction methods to identify fraud, and achieving a 90% accuracy
* Tech:  KMean/Hierarchical/Gaussian Mixture Models PCA/TSNE/UMAP Rand Index/Confusion Matrix

**Experience**

ENCINA Houston, TX

***Scientist*** 03/2018 – present

* Conducting statistical analysis, model estimation and lead research activities.
* Large-scale data cleaning, data interpretation, and cross-correlation analysis.
* Generate insights connecting simulation results with design and business problems and objectives.
* Work cross with vice president, and senior leaders in the engineering and research teams.

**Education**

THINKFUL 07/2019 – 11/2019

***Data Science***

* Immersive program involving advanced statistics, data analysis, visualization, and machine learning techniques.
* Pursued more advanced topics such as Deep Learning with Keras and TensorFlow, CNN, RNN, NLP.
* Independently completed Capstone projects and articulate research findings with data scientists affiliated with Thinkful.
* GitHub URL: https://github.com/sw299/Thinkful\_Capstone\_Projects

NEW JERSEY INSTITUE OF TECHNOLOGY

***Ph.D. Chemical Engineering***  05/2014 – 12/2017

***M.S. Chemical Engineering***  01/2013 – 05/2014

***B.S. Chemical Engineering***  09/2008– 06/2012