**Qiong Li**

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***CERTIFICATIONS & TECHNICAL SKILLS***

* Statistical modeling including Linear Regression Model, Logistic Regression Model, Decision Tree, Random Forest, Neural Network, SVM, et al
* Python, SAS, R, Java, SQL
* Experimental Design, Analysis of Variance (ANOVA), Network Analysis
* Advanced Excel, SAS 9.4, SAS/Enterprise Miner, Tableau, Qlikview, SAP BI, SAP HANA, Weka, Rattle, R, SSMS, SSIS, SSRS

***WORK EXPERIENCE***

**Texas Back Institute** (Plano, TX)

**Database/ Data Analyst,** July 2016-Sep 2017

* Developed logistic model to predict the probability of re-operation in clinic using Python, identify the relationship between the re-operation rate and operation type and level, support management overlay and model implementation
* Developed models to predict the probability of patients’ appointment cancellation using R/Rattle, modeling approach included decision tree, SVM, and neural network, random forest and logistic regression. Model succeed to provide recommendations to better manage cancellation issue
* Wrote complex SQL queries to evaluate & update data source; created stored procedures as needed for data processing & ad hoc analysis; Maintain databases, tables, views, index, metadata, etc. with expertise knowledge of SQL relational and multi-dimensional database structure, schemas.
* Created SSIS packages to pull data from multiple sources to destination database, SSAS cubes for data analysis and data mining and SSRS reports and published in SharePoint
* Created visualized dashboard that provide comprehensive tracking on key metrics for senior management including charts, tables and text to provide detailed information.
* Conduct data mining to extract key word from patients’ surgery note and updated data as needed using Python.

**UT Southwestern Medical Center** (Dallas, TX)

**Postdoc. Researcher,** Mar 2010-Mar 2015

* Designed and performed experiments, Identified one new drug target for future healthcare
* Collected and analyzed data, visualized and presented experimental data to scientific community
* Published 3 scientific papers and interpreted experiment data to propose recommendation

***INDEPENDENT PROJECT***

**Marketing analytics using SAS,** Jun 2016-Aug 2016

* Collaborated with 4 team members to analyzed VCA hospital dataset with 300 variables using SAS
* Identified significant variables in dataset within 4 segmentations
* Answered financial implications and made the suggested action plan to improve hospital performance

**Advanced Business Intelligence/Analytics (customer analytics),** Sep 2016- Dec 2016

* Applied data preprocessing and model enhancement techs using GUI (Weka and SAS EM)
* Analyzed Customer analytics on different sellers to understand the factors effect purchasing behavior to help decision making with different models using SAS

***EDUCATION***

* **University of Texas at Dallas, USA***,*

*2014-2016 M.S., Information Technology Management*

* **Institute of Hydrobiology, Chinese Academy of Sciences, CHINA***,*

*2004-2008 Ph.D., Genetics*