Zhenqing (ZQ) Li

- - in https://www.linkedin.com/in/zhenqingli
- https://github.com/digitalpig
 614-271-5528

— Experiences —

08/2018 - Present Manager, Data Science, Capital One, McLean, VA

- Chanllenge model built for Card Transaction Fraud leading to a \$4M increase in fraud prevention.
- Lead validation of Capital One's main street risk model, one of the highest level model used in US Card business
- Extensively using AWS cloud based computing for modeling and building data engineering pipeline

09/2016 - 08/2018 Principal Data Scientist, Capital One, McLean, VA

- Validating behavior, fraud and recommendation models in card customer acquisition and management at model risk office
- Extensively using AWS cloud based computing for modeling and building data engineering pipeline
- Investigating new tools to provide opinions to 1st line card data scientist team
- Maintained/modernized three legacy SAS based model-monitoring tools
- · Contributing to various internal open source projects
- 06/2012 09/2016 Research Chemist, Lubrizol, Wickliffe, OH
 - Developed a statistical model to predict chemical toxicity, saving registration cost (\$1M)
 - Wrote an image processing software to assess hair straightening after shampoo treatment
 - Applying Design of Experiment concepts consistently in new product development
 - Developing rheology modifier for lubrication and supporting pilot scale-up/manufacturing
 - Supervise technicians

— Work Authorization —

Permanent Resident

—— Skills ——

Core Skills	Python (numpy, scipy, matplotlib, pandas), R(data.table, ggplot2), H2O (www.h2o.ai), Spark, SQL, AWS, EMR, Ansible, Terraform
Unix/Linux Experiences	Extensively use Linux/Unix system for 10 years
Statistics	Statistical data analysis, Design of Experiment (DoE), Six Sigma Green Belt
Language	Chinese Mandarin (native), English (fluent)
	—— Open Source Projects ——
Smart Underwriter	https://smartunderwriter.herokuapp.com
	I made a stochastic gradient descent trained SVM model, using Fannie Mae's single family housing data from 2000 to 2015. My project models the automated underwriting system (AUS) credit decision. For detail on data acquisition, processing and machine learning, please check the data acquisition or training models. You can also checkout the GitHub repo.
NYC Bus Track	https://nyc-bus.herokuapp.com. Analyze NYC's bus status using both historical and real time data. Source: Github
Trulia Scrapping	Study of Trulia Traffic Using Python to scrape Trulia housing data in different US states via its API. Analyze and plot those housing data by using R with ggplot2 and ggmaps. Source: Github
	—— Education ——
03/2016 - 05/2016	Fellow at The DataIncubator Inc.
2016 - Present	Machine Learning Track Neuron Networks and Deep Learning; Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
2016 - Present	Functional Programming Track Functional Programming Principles in Scala
2015 - Present	Data Science Track by John Hopkins University (Coursera)
	The Data Science's Toolbox; R Programming; Getting and Cleaning Data; Exploratory
2015 - Present	Data Analysis Fundamentals of Computing by Rice University (Coursera)
2015 1103011	An introduction to interactive programming in Python: Part I; An introduction to inter- active programming in Python: Part II
05/2008 - 06/2012	PhD, Materials Science & Engineering The Ohio State University, Columbus, OH
08/2006 - 05/2008	MS, Materials Science & Engineering Clemson University, Clemson, SC
09/2002 - 07/2006	BS, Macromolecular Science & Engineering Fudan University, Shanghai, China

—— Publications ——

Full publication list is at Google Scholar