BING XU
Greater New York City Area

EDUCATION
Columbia University | Master of Science, Data Sciences   New York, NY August 2015 –Present
Course(s): Algorithms for Data Science, Machine Learning, Statistical Inference, Deep Learning & Neural Networks
Cornell University | Master of Engineering, Biomedical Engineering   Ithaca, NY May 2014
Syracuse University | Bachelor of Science   Syracuse, NY May 2013
Dual Majors in *Bioengineering* and *Television-Radio-Film (Newhouse School)*
Minor in *Mathematics (Statistics and Probability)*

SKILLS
Analytics: Stochastic Analysis, Bayesian Modeling, Statistics and Probability, Multivariate Regression, k-means clustering, hierarchical clustering, Time Series Analysis
Programming: R, Python, SQL, SAS (Forecast Studio, Enterprise Guide), MATLAB, Igor Pro

PROJECTS
Data Science Hackathon by Columbia University and Microsoft Azure Machine Learning
-Implemented machine learning algorithms and data visualization to investigate the partitions of housing value based on various sectors of geographical data using Microsoft Azure ML, Python, and web scraping techniques, and visualizing in Tableau. Data scrubbing/cleaning is also implemented.
Entrepreneurship for Engineers and Scientists
-Built a business model for innovative drug solution for Osteoarthritis (OA)
-Analyzed Market Opportunity and created Budgeting as well as Growth and Operating Strategy
Machine Learning and Algorithm Applications
-Optimization of text segmentation, shortest path and connected components for Network problems
Classification for OCR images, newspaper brands, spam, and Recommender System using machine learning algorithms including Decision Tree, Random Forest, Logistic Regression, Neural Networks, Support Vector Machine (SVM), and Collaborative Filtering

RELATED EXPERIENCE
Data Science Intern/Contractor
Management Science & Integration, NBCUniversal Media,LLC New York, NY   June 2016 – Present
-Develop automated extraction algorithm (using Python, R, and PySpark) to assist data wrangling and data transformation at scale. Build D3.js data visualization as verification tool and deliver to business team.
-Construct Time Series models for linear forecasting using SAS forecast studio and R.
Research Assistant
Department of Neurology, Columbia University Medical Center, New York, NY   May 2015 – June 2016
-Process and analyze experimental data gathered from medical devices, and write code for computer programs, primarily in Igor Pro and MATLAB, to further assist scalable data analysis including data converting, cleaning, scripts writing
-Assist with multiple projects and experiments in human motor control research for neurological disorders, such as Pakinson's disease,using high-end technology, such as PhaseSpace Motion Capture System
Research Assistant - Health Analytics
R&D,AIG Science, New York, NY   January 2016 – May 2016
-Develop ETL and build complex models and solutions to support underwriting and segmenting risk profiles
-Use machine learning techniques analyzing big data related to healthcare product