SIYU (SYLVIA) YAN

Apt# 3-2E, 600 Warren Road | Ithaca, NY 14850 | (510) 333-8276 | sy527@cornell.edu

OBJECTIVE: Seeking challenging full-time job opportunities using quantitative data analytics skills.

EDUCATION

CORNELL UNIVERSITY, College of Engineering

Ithaca, NY

MASTER OF PROFESSIONAL STUDIES in Statistical Science

Aug. 2014-May 2015

Specialization: Bayesian Statistics, Database Management, Data Mining, Functional Data Analysis, Machine Learning, Stochastic Processes, Times Series Analysis, etc.

UNIVERSITY OF CALIFORNIA, BERKELEY

Berkeley, CA

BACHELOR OF ARTS in Economics and Statistics

Aug. 2009-Dec. 2012

- Academics: Major GPA: Economics 3.55; Statistics 3.51
- *Honors*: Omicron Delta Epsilon, Beta Chapter, the International Economics Honor Society

2011-Present

- Leadership: Campaign team leader for ASUC's 2010 election, managing a 10 people campaign team for Executive Vice President candidate of Student Action Party, resulting in 300 votes.
- *Teamwork:* Facilitator of the 2011 Dean's Team Training Program, organizing a four workshops' training program for 20 students in cooperation with another facilitator.

ACADEMIC PROJECTS

CORNELL UNIVERSITY Ithaca, NY

MPS Project-Testing Fundamental Analysis Strategies

Jan. 2015-May 2015

- Export historic fundamental data on company components of S&P 1500 Composite Index from Bloomberg Terminal.
- Build parametric and non-parametric statistical models such as Rolling Forecast model, Generative Additive Model, Random Forest Model, etc. for stocks' scoring system.
- Back test the best scoring system selected from k-fold cross validation on historical data on an as of basis to reproduce the scores.
- Perform portfolio optimization on stocks pre-filtered by scoring system in G-sphere.
- Profit and loss analysis on portfolio's wealth on different market events.

U.S. Congressional Floor Debates Classification

Mar. 2015

- Classify 2740 speeches into for and against groups based on sentimental analysis.
- Classify 2740 speeches into 38 groups based on debates' topics.
- Use random projection to reduce dimension of speech features and implement unsupervised clustering methods such as k-means, single-link, spectral clustering and canonical correlation analysis on training data in Python.
- Achieve 100% accuracy rate in the first task and 95% accuracy rate in the second task on test data.

Data Science Club Project

Sep. 2014-Dec.2014

• Implement KNN, Decision Tree, Random Forest and SVM Machine Learning algorithms to learn and predict F-1 Teams' and Drivers' Performance.

UNIVERSITY OF CALIFORNIA, BERKELEY | Berkeley, CA

Bayesian Seminar Class Project

Sep. 2012-Nov. 2012

- Estimate the probability that Mr. Obama wins the 2012 Presidential Election of United States.
- Methods include Bayesian logistic regression model, Monte Carlo Markov Chain method, etc.

WORKING EXPERIENCE

CALIFORNIA ACTUARIAL CONSULTANTS | San Ramon, CA

Apr. 2013-Jan. 2014

Pension Actuarial Analyst

- Provide actuarial consulting and pension administrative service for the existing 60+ clients.
- Provide ad-hoc query support using MS Access and Excel.
- Run annual actuarial valuation reports in compliance with internal guidance of existing clients' pension plans using Actuarial Systems Corporation software.
- Calculate pension benefits for terminated participants in the retirement plans.
- Help design customized cost-effective retirement plans for potential clients and create multiple scenarios to make comparison.

SKILLS AND CERTIFICATIONS

Certification: SOA Actuarial Exams: Pass all SOA preliminary exams and VEE courses are satisfied.

SAS Base Programming Certification; SAS Advanced Programming Certification is expected.

Technical Skills: MATLAB, Python, R, SAS, SQL and STATA.

Language Skills: Fluent in English, Mandarin and Intermediate French.