Liying Li

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Education			
2018.07-2019.06	College of Arts & Science,	Master of Science in	San Francisco, CA
(Expected)	University of San Francisco • Relevant courses: Machine Learning, Advanced Machine Learning, Problem Solving with Pyt Data Acquisition, Relational Databases, Distributed Computing		
2014.07-2018.07	School of Economics & Management, Tsinghua University	Bachelor in Economics and Finance	Beijing, China
	 Relevant courses: Econometrics, C++, Applied Time Series Analysis, Applied Statistics and Data Analytics, Stochastic Mathematics Methods 		
Internship			
2018.10-2019.06	Beam Solutions	Data Scientist Intern	San Francisco, CA
(Expected)	 US census application project Assisted in building the US-census service by retrieving data from US-census website using a REST API and Elasticsearch. Created a Docker image running as a container using Gunicorn and AWS EC2 instances to deploy the application. Anomaly detection for broker-dealer transaction 		
	 Engineered new features on broker-dealer transaction dataset andmodeled the dataset with unsupervised clustering algorithms, including K-Means, Mean Shift and Tree Ensemble methods. Built Isolation Forest model for detecting the abnormal transactions. Built several models by using different number of features and 2,000 out of 60 thousand observations were indicated as anomalies. Analyzed modeling results by checking the characteristics of the anomalies based on possible rules of anomaly transactions, which showed the anomalies could be the transactions for money laundering with high probability. 		
2017.12-2018.06	 Worked on strategy solutions to attract inact cities. Achieved 10% re-activation of inactive to Analyzed relevant app data in SQL and Hive. Supported roll out of the re-activation strategy hours per day on average. Assisted with screening fraudulent behavior us. 	across ten cities to increase. driv	
2017.6-2017.10	 Shenzhen Yan Sheng Asset Management Co., Ltd. Quantitative Intern Beijing, China Analyzed historical data for several futures products with a large capital investment such ass reinforced steel bar, polypropylene, and cooking coal. Developed and applied futures strategy based on mean reversion of polypropylene for a five-minute 		
	 Increased net profit and reduced retracement by adjusting parameter sensitivity resulting in 100% return rate in the historical data test. 		
Projects			
2019.1-2019.3	 Prediction of AQI based on spark Machine Lean Completed feature engineering and preproces computing on EMR clusters. Used Spark Machine Learning package to mo Classifier, and achieved accuracy greater than (Tools: Python, Spark (SparkSQL, SparkML, python) 	ssing on air pollutant data set under Random Forest Classifier and 0.8 of the final model.	d Logistic Regression
2018.11	 Canadian Bankruptcy Rate Forecasting Predicted Canadian monthly bankruptcy rates b Tools: R, Time Series(Box-Jenkins, SARIMAX 		San Francisco, CA models.
2018.08	Twitter Sentiment Analysis • Analyzed sentiment for the automated-fetched scores and shown as a digested list with differe • Tools: Tweepy, Jinja2, Flask, REST API	tweets. Generated the results ra	San Francisco, CA nked according to the
Other Inform			

Other Information

- Skills: Python, R, SQL, Spark (Spark SQL, SparkML, pyspark), AWS(S3, EC2, EMR, Sagemaker), NoSQL(MongoDB), Git, C++
- Language: English(Fluent), Mandarin(Native), Russian(Basic)