

Jiali Zhou

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EDUCATION

New York University, Courant Institute of Mathematical Sciences, New York, NY May 2017
Master of Science in Data Science, focus on machine learning and natural language processing.

- **Relevant Courses:** Deep Learning, Probabilistic Graphic Model, Big Data, Machine Learning, Natural Language Processing, Artificial Intelligence, Introduction to Data Science

Tsinghua University, Beijing, China Jun 2015
Bachelor of Science in Electrical and Computer Engineering

- **Overall GPA:** 3.77/4.00
- **Relevant Courses:** Optimization and Numerical Analysis, Data Structure, Real Analysis, Introduction to Artificial Intelligence, Graphic Models
- Distinguished Academic Scholarship at Tsinghua University in both 2013 and 2014

SKILLS

Strong programming experience in Python and industrial experience in R, C++
Experience in implementing and optimizing deep learning, machine learning architectures
Knowledge in machine learning and algorithms in natural language processing
Familiar with parallel programming frameworks like map-reduce, especially Hadoop

RELEVANT EXPERIENCE

Data Scientist Intern in Accolade Inc. May 2016 - Aug 2016
Predictive Model for Total Time Client Spent per Month

- Extracted features including demographics, claims history, financial statement of customers using bag of words representation, ngrams and tfidf.
- Achieved 45% performance improvement of R-squared metrics for predictive model, revealed informative features for prediction of incoming customers.

Data Scientist Intern in SAP Inc. Dec 2014 - Feb 2015
Air Flight Delay Prediction

- Achieved 91.1% accuracy on test data in flight delay prediction using SGD SVM, Decision Tree, Logistic Regression and Random Forest.
- Selected the most informative features including tail number, time period using lasso regression and Principle Component Analysis.

PROJECTS

Sentiment Analysis on IMDB dataset, New York University Sep 2016 - Oct 2016

- Implemented Multiple Layer Perceptron Architecture with Continuous Bag-of-Word model for features and Convolutional Neural Network on 25000 movie reviews for training.
- Optimized the model using n-grams with smoothing, dropout, decaying learning parameter and achieved 13% improvement on classification.

Interaction Analysis of Uber, Yellow Taxi and Green Taxi, New York University Mar 2016 - May 2016

- Used 5 GB Uber and yellow taxi data as basis, performed comparative analysis of availability of different taxi modes in NYC.
- Architected MapReduce based algorithms and pipelined scripts in Hadoop to provide periodic and domain-based analysis.
- Used Google's Geocoding API, D3.js, Plotly.js, Tableau and CartoDB to present data for distribution of ubers in New York and the interactions of different taxi modes.

Automated Question Answering System of Yahoo Answers, New York University May 2016 - Jun 2016

- Improved the metrics of precision and recall by 6% through feature engineering and hyper-parameter tuning using Ensemble of multinomial Naive Bayes model.
- Achieved 4% improvement of accuracy for answering similar questions by adding question length to BM25 score metric.

HONORS & AWARDS

- **Meritorious Winner in the Interdisciplinary Contest in Modeling in 2013**
- **Second Prize in the National Undergraduates Physics Competition in 2012**