Minjie Zhang

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EDUCATION

Santa Clara University — **Santa Clara, CA**
Master of Science in Computer Science & Engineering, Data Science — Expected Jun 2018

University of California, Los Angeles — **Los Angeles, CA**
Bachelor of Arts in Business Economics, Minor in Statistics — Sep 2012 – Aug 2016

Relevant Coursework: Algorithm, Machine Learning, Data Structures, Statistical Models and Data Mining, Data Analysis and Regression, Numerical Linear for Data Analysis, Optimization, Natural Language Processing

TECHINICAL SKILLS

- **Python, R, C++, MATLAB, SQL**

PROJECTS

MATLAB Machine Learning Projects — **Coursera**
Student — Dec 2015 – Jan 2016

- Built a logistic regression model to predict whether a student will be admitted into a university based on exam results on two previous exams
- Implemented regularized logistic regression to predict whether microchips from a fabrication plant will pass quality assurance
- Applied one-vs-all logistic regression and neural networks to recognize handwritten digits

LLC for Image Classification — **Los Angeles, CA**
Group Member — Jan 2016 – Feb 2016

- Analyzed the paper *Locality-constrained Linear Coding for Image Classification* (2010) and implemented its encoding algorithm using MATLAB and Python
- Applied one-vs-all support vector machine classification method to data set Caltech-101
- Generated a 71% image classification accuracy for 101 categories with 5000 images, compared to the 73% accuracy in paper

Kaggle Competition — **Los Angeles, CA**
Group Member — Mar 2016 – Jun 2016

- Utilized 16 variables including shelter location, age, species, breed, color, year to predict whether an animal in shelter would be euthanized
- Applied random forest, multinomial logistic regression and extreme gradient boost to 113,891 training data and predict results for 100,000 testing data
- Generated a multi-logloss of 0.31568, ranked 14th among 55 teams

Natural Language Processing Projects — **Santa Clara, CA**
Student — Sep 2016 – Oct 2016

- Implemented a stemmer and Viterbi algorithm for computing the most likely parsing by probabilistic context free grammar and generated parse trees using NLTK and Python
- Implemented Latent Semantic Analysis and Text-Rank summarization programs for news datasets using NLTK and Python