

YANNAN PAN

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EXPERIENCE

Data Scientist Intern

Seagate Technology

📅 May 2017 – Present 📍 Edina, MN

- Work with engineers to manipulate, visualize and analyze large data sets using SQL, Python and R.
- Use NLP techniques such as Tf-Idf, N-grams to measure the text similarity for both structured and unstructured data.
- Performed anomaly detection in images using quantile thresholding and One-class SVM.
- Developed a scoring system to predict product scrap using various classifiers, such as GLM, XGBoost, Random Forest, KNN and performed unsupervised clustering to detect anomaly.
- Handled extremely imbalanced datasets by sampling with SMOTE, training cost-sensitive classifiers, etc.

Teaching Assistant

University of Minnesota Twin Cities

📅 Jan 2016 – Dec 2016 📍 Minneapolis, MN

- Lead discussion sections and demonstrate how to solve statistical problems in regression using R.
- Meet with instructors to discuss lab topics and hold regular office hours to meet with students.

PROJECTS

Toxic Comments Classification

Kaggle Project

📅 Jan 2018 – Present

- Preprocessed large text datasets using regular expression functions, tokenization and lemmatization tools
- Extracted features by Bag-of-Words, Tf-Idf representations and used machine learning algorithms to perform classification
- Trained RNNs with pre-trained GloVe embeddings
- Tools: Python (Sklearn, NLTK, Keras)

Predictive Modeling on Auto Claim Data

Coursework Project

📅 Oct 2015 - Dec 2015

- Built predictive models to predict claim costs based on historical data
- Performed model selection and variable selection to choose from generalized linear models
- Trained a model with high Gini coefficient and provided a good segmentation of the policyholders to help reduce claim costs
- Tools: R

EDUCATION

Master of Science, Statistics

University of Minnesota Twin Cities

📅 2015 - 2018 📍 Minneapolis

GPA: 3.83/4

Bachelor of Economics, Mathematical and Financial Statistics

Zhongnan University of Economics and Law

📅 2011 - 2015 📍 Wuhan

GPA: 3.72/4

COURSEWORK

- Advanced Regression Techniques
- Engineering Optimization
- Machine Learning
- Design of Experiments
- Statistical Computing
- Statistical Consulting

AWARDS



First Prize

in the 4th Chinese National College Student Market Research and Analysis Final Competition, Aug 2014



Honorable Mention

in American College Mathematical Contest in Modeling, Jan 2014

STRENGTHS

R Python SQL SAS LaTeX
Microsoft Office Matlab

CERTIFICATIONS

- SAS Certified Base Programmer for SAS 9
- Chinese National Market Research and Analysis Specialized Skills Certificate