

Jingxian Lin

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Skills

Python (sklearn, pandas, numpy), Linear Modeling, Penalized Methods (Lasso, Ridge), Decision Tree, Clustering, Feature Engineering, Computer Vision and Deep Learning, TensorFlow, Keras, PyTorch, etc.

Projects

Customer Churn Prediction in Telecommunications Industry

- Developed algorithms for telecommunications service vendors to predict customer churn probability based on labeled data via Python programming and Apache Spark.
- Preprocessed data set by data cleaning, categorical feature transformation and standardization, etc.
- Trained supervised machine learning models including Logistic Regression, Random Forest and K-Nearest Neighbors, and applied regularization with optimal parameters to overcome overfitting.
- Evaluated model performance of classification via k-fold cross-validation technique and analyzed feature importance to identify top factors that influenced the results.

Self-Driving Car Engineer Nanodegree Capstone Project

- Used Convolutional Neural Networks to classify traffic sign and predict steering angle from images.
- Applied Computer Vision and Machine Learning techniques for vehicle detection and run the final project on an actual self-driving car (Ford Lincoln MKZ).

Education

- **Ph.D.** in Physics, University of California, Riverside, California, 2006
- **M.A.** in Statistics, University of Michigan, Ann Arbor, Michigan, 2008
- **Self-Driving Car Engineer Nanodegree**, Udacity, 2017
- **Data Scientist Nanodegree & Machine Learning Engineer Nanodegree**, Udacity, 2020

Work Experience

Data Analyst, China Mobile Technology (USA) Inc., Milpitas, CA

2014 - present

- Build TextCNN model for Chinese short text message classification and reached 96.7% accuracy on test set
- Constructed a predictive Multiple Layer Perceptron model to detect network intrusion

Data Analyst, Glogou, Inc., Santa Clara, CA

2012 - 2013

- Implemented sales signal processing web services for international marketing
- Developed a sales channel recommendation system using collective intelligence programming

Research Assistant, Statistics Department, University of Michigan, Ann Arbor, MI

2007 - 2011

- Applied variable selection ideas to compute principal component functions in interpretable ways
- Proposed a data-driven method to select fixed and random effects in linear additive mixed model