

Kuan-Cheng(KC) Lai

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EDUCATION

University of California, Berkeley , Berkeley, CA, USA	08/2014-12/2015
M.A. in Statistics	
National Cheng Kung University (NCKU) , Tainan, Taiwan	09/2008-06/2013
B.B.A. in Statistics and B.A. in Economics	

INDUSTRY EXPERIENCE

Intern in Aiooki USA, Inc	08/2015-12/2015
<ul style="list-style-type: none">Collected demographic data from United Census Bureau's APIProcessed and inserted data into relational databases using Python and Java HibernateBuilt statistical classification models and regression modelsImplemented Angular JS to front-end product	

ACADEMIC EXPERIENCE

Identify Natural Images from Human Brain Activity	12/2015
<ul style="list-style-type: none">Built Lasso and Ridge regression on 10921 Gabor wavelets features from each natural image to predict fMRI voxels valuesImplemented AIC, AICc, BIC and CV to choose tuning parameter lambdaUsed Gradient Boosting to build a model and compare performance with other regression models	
Organ Classification on Drosophila Embryos	11/2015
<ul style="list-style-type: none">Implemented exploratory data analysis and feature engineering to determine useful featuresUsed KNN, weighted KNN and Random Forest to build classification models on embryo images to classify gut, yolk and tissue of embryosImplemented ROC to verify classification performance which resulted in 87% accuracy rate using KNN	
Text Mining on Stack Overflow Posts	03/2015
<ul style="list-style-type: none">Processed and engineered features on more than 25,000 Stack Overflow posts with PythonTrained multi-label Random Forest model and Boosting Tree in R to classify 5 different tags97% prediction accuracy on validation set and achieved 4th place ranking in Kaggle competition	
Text Mining on International News in Twitter	02/2015
<ul style="list-style-type: none">Used Twitter API to extract timeline data from popular news agenciesAnalyzed raw JSON data using Python package NLTK and PandasUsing visualization methods, found that agencies tend to have geographical 'preference pockets'	
Using Statistical Methods to Help Community Sign Utility Contract	12/2012
<ul style="list-style-type: none">Worked with a team to analyze data of community utility usage dataImplemented Bootstrap to estimate the variance of average of utility usage for each month and set up the contractResulted in approximately 10% cost savings for the community in the coming years	

SKILLS

Computer Skills: R, Python Java, PostgreSQL, Spark, Hadoop, Hibernate, Pandas, Angular JS