Mingxiang Cai

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EDUCATION

University of California San Diego

La Jolla, CA

Master of Science in Computer Science

Sep. 2018 - Present

o Focus: Statistical modeling, supervised learning

Boston University

Boston, MA

Bachelor of Arts in Mathematics (Minor in Computer Science)

Sep. 2014 - Jan. 2018

o GPA: 3.94/4.00 (Summa Cum Laude)

SKILLS

• Programming Languages: Python, Java, SQL, C++, R, SAS, Unix Shell, LATEX

• Technologies and Tools: Data stuctures, NumPy, Pandas, SciPy, Statsmodels, Scikit-learn, Tensorflow, NLTK, matplotlib, plotly, Tableau, Git

EXPERIENCE

UC San Diego Extension

La Jolla, CA

Researcher

Oct. 2018 - Present

• Assist in prototyping a deep learning algorithm to detect illegal online drug sales on social media

Boston University, Department of Computer Science

Boston, MA

Research Assistant

Jul. 2017 - Dec. 2017

- Worked with two other researchers to develop a heuristic algorithm driven by features of participants and tasks to optimize team match in Hackathon events.
- Liaised with hackathon organizations in Boston area and tested the algorithm in BostonHack 2017, helping over 400 participants get better team match.

Converse Product Launches Research: Social Media's Effects

Team project supported by Converse, Inc.

May. 2017

- Collaborated with data experts from Converse to extract, clean, and analyze over 150000 tweets related to new product launches, covering over 60000 users.
- Identified influential twitter accounts by finding social network centers using a centrality metric and detected their content patterns with unsupervised learning of topic modeling and clustering techniques.

Massachusetts Real Estate Data Scraping

Independent research

Apr. 2017

- Established data pipeline between real estate websites and database through a continuous process of data scraping, structuring and formatting to collect data of over 15000 houses.
- Trained supervised learning model of random forest to forecast house price and evaluate performance via k-fold cross-validation and achieved average 85.5% accuracy on test sets.

Yelp Review Text Mining

 $Independent\ research$

Mar. 2017

- Applied Principal Component Analysis on tokenized text to extract features.
- Trained a ensemble model combining SVM and regression to predict restaurants star ratings and achieved 90.4% accuracy on test set.