

Minchun Zhou

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EXPERIENCE

Data Science Fellow

Jan 2018 - Present

Insight Data Science

New York, NY

- Built a classification model to predict future famous artists.
- Scraped data from Blouinartsalesindex.com and Whoisbigger.com.
- Extracted features from images using OpenCV and CNN.
- Built web application using Flask and deployed it on AWS: www.FameForecaster.com

Machine Learning Engineer Intern

May 2017 - Aug 2017

Mobike

Beijing, China

- Used unsupervised learning to cluster geographical-temporal data to better relocate dockless bikes.
- Built multiple Shiny apps interacting with MySQL for internal use, such as finding crime suspects and bike turnover rates dashboard.
- Generated multiple business analysis reports for strategy team and business development team including: (1) diagnosing daily non-active bikes (2) analyzing market shares of different phone brand.
- Worked with product manager and designed new product to increase bike usage and customer activity.

Research Assistant

May 2013 - Dec, 2017

Vanderbilt University

Nashville, TN

- Provided data support including data cleaning, visualization, repeated measures analysis for the study of diabetes.
- Served as statistical consultant within the School of Medicine, and helped researchers to understand their data and find the best method for the data.

INDEPENDENT PROJECTS

Easy Annual report: A tool for Chinese stock traders (www.CaiBaoTianXia.com)

- Built a Shiny app translating stock annual report into Chinese. (500 active users per week)
- Scraped data dynamically from Morningstar.com.
- Saved user's digital footprint on Google Sheets and tracked website traffic using Google Analytics.

Backtesting For Everyone: An interactive stock backtesting app (bit.ly/2DA3UfP)

- Built a Shiny app allowing users to backtest stock performance by changing parameters and clicking buttons.
- Generated downloadable reports including backtesting results and trading history using Markdown.

3D Visualization in R: Make animation of your travel history: (bit.ly/2DBBEZd)

- Plotted travel history using ggplot2 and converted images into video using ffmpeg.
- Performed parallel computing using the SNOW package.

TECHNICAL SKILLS

- Language: Python, R, SQL, MATLAB, Markdown, SAS
- Tools: Pandas, NumPy, SciPy, Scikit-learn, Pytorch, OpenCV, Shiny, Flask, ffmpeg, ggplot2

EDUCATIONAL EXPERIENCE

Ph.D in Biostatistics (Expected: Summer 2018)

2012 – Present

Vanderbilt University

Nashville, TN

Master of Applied and Computational Mathematics

2010 – 2012

Western Michigan University

Kalamazoo, MI