

Zixin (Bonnie) Zhang

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Skills

Machine Learning: Forecasting, Computer Vision, Natural Language Processing, Time-series Analysis

Programming Language: Python, SQL, R, MATLAB, STATA

Tools: Hadoop, Spark, AWS, GitHub, Jira, Tableau, Jupyter Notebook, Microsoft Office Suite

Statistics: Regression, Hypothesis Testing, Bayesian Inference, A/B testing

Professional Experiences

Machine Learning Engineering Intern (UBC Capstone Project)

4/2019 - Present

realtor.com

Vancouver, BC, Canada

- Achieved 95% accuracy for housing price prediction in over 50 US cities by implementing machine learning models such as LightGBM, XGBoost, and Dense Neural Network
- Significantly improved user experience and facilitated user engagement by creating and deploying a front-end web application connected to the model using the Plotly Dash framework on Python
- Contributed to company quarterly planning by presenting the machine learning techniques as well as model results, convincing the company to scale up the project and add it as a new feature in future releases

Business and Marketing Development Intern

9/2016 - 11/2016

California Center

Sacramento, CA, USA

- Performed in-depth industry background research and collected 50 household products' information from both E-commerce platforms and retail stores
- Researched the current state and potential growth trends for 20 products and prepared individual pricing report by building Excel tools
- Developed marketing campaign plans to promote product offerings and gain brand awareness using advanced PowerPoint skills

Education

Master of Data Science

University of British Columbia

Graduating 7/2019

Vancouver, BC, Canada

Bachelor of Science, Major in Statistics, Minor in Economics

University of California, Davis

9/2016 - 6/2018

Davis, CA, USA

Technical Project Experience

Packages for meta-analysis of R/Python scripts

Spring, 2019

- Designed a package in both R and Python version to provide understanding of the input scripts by retrieving any packages, functions and size of characteristics contained in the file
- Developed three functions and established 100% coverage unit tests for each function

Analysis of worldly wines' prices and ratings via shiny app

Spring, 2019

- Cleansed a dataset with 130k wines' information through data wrangling and resolved data issues
- Established four dropdown menus to for user to filter wines of different price and rating ranges in terms of location, region and variety
- Deployed a shiny app in R with interactive plots by Plotly for user to reach out more details of their selection of wines

Course Final Project: Data Analysis of Walmart.com

Winter, 2018

- Made API request from Walmart.com and extract a data set with 9000 products' information
- Conducted statistical analysis in Python using simple logistics regressions and word cloud
- Visualized products' information using seaborn and Walmart stores' locations in California using geopandas

Leadership Activities

Finance Assistant

Alpha Phi Omega, Davis Chapter

10/2016 - 2/2017

Davis, CA, USA

- Assisted finance team to prepare quarterly budget forecast report for the expense of community service fraternity
- Spearheaded the efforts of organizing 2 campus-wide fundraising events to raise money for future event planning and maintained an accurate record for disbursement to manage the operation cash flow