Pat (Qingmengting) Wang

qwang83@usfca.edu | (628) 502-5952 | San Francisco, CA 94107 | Linkedin Profile

EDUCATION

University of San Francisco	**Master of Science in Data Science**	June 2020

Relevant Coursework: Advanced Machine Learning, Natural Language Processing, Python, Data Visualization, Distributed Computing, Time Series Analysis, Experiment Design, and Databases

University of International Business and Economics	**Bachelor of Science in Finance**	June 2019
	Bachelor of Law	June 2019

Relevant Coursework: Stochastic Process, MATLAB, Python, Data Structures, C++ Programming

WORK EXPERIENCE

Pocket Gems | Data Science Intern   San Francisco, USA | Dec. 2019 - present

Developed insights over the performances of stories in Episode, a mobile storytelling platform lanced by Pocket Gems in 2014.

- Manipulated over 40 terabytes data using SQL at Google Bigquery, conducted exploratory data analysis and feature engineering on it.
- Partnered with product team, interpreted influencing factors of user conversion rate with LDA and SHAP value, provided several key suggestions to the product team.
- Predicted users' purchasing behavior and interpreted feature importance with LSTM, achieved 0.79 AUC score.

Baidu | Data Analytics Intern   Beijing, China | Jul. 2018 - Oct. 2018

Monitored Baidu's advertising transaction and modified agents' incentive of advertising profit.

- Preformed database management using SQL on 8K+ transaction data and automated visualizations for profit monitoring.
- Identified mismatch between agents' payment and profit, proposed solving plans and successfully decreased excessive payment rate to agents from 168% to 121%.

Accenture China | Consulting Intern   Beijing, China | Feb. 2018 - Apr. 2018

Conducted oversea-investing strategy research for PetroChina.

- Developed an XGBoost model to evaluate the on-time completion probability of worldwide petroleum projects, achieved 0.86 AUC score.
- Led several independent research including Canadian market size estimation and market competition analysis, cooperated with the whole team to deliver presentation of investing strategy for PetroChina and succeeded at winning the next cooperation opportunity.

PROJECTS

Wearable Stress and Affect Detection | Course Project

- Built several models on chest device data and wrist device data on stress detection and compared device performance, determined the most predictive modalities from chest data.
- Parallelized the prediction models using H2O at Amazon EC2 on a 16.4 gigabytes dataset.

Math2Code | Product Design and Implementation

- Developed a web page that will automatically convert an image of a math equation to numpy code.
- Responsible for frontend implementation and UI design; Cooperated with engineering team and participated in backend coding.

TECHNICAL SKILLS

Programming: Python(Scikit-learn, Pandas, Flask), C++, Matlab
Databased and Distributed Computing: SQL, Spark, AWS (EC2, S3)
Deep Learning: Keras, PyTorch, Tensorflow