Fuyu Zou

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Currently looking for full-time data scientist opportunities.

EDUCATION

Brown University Providence, RI

M.S. in Biostatistics GPA: 3.9/4.0 *2017 - 2019*

Shanghai University of Finance and Economics Shanghai, China

B.A. in Management GPA: 3.5/4.0 *2013 - 2017*

Relevant courses: Machine Learning, Deep Learning, Introduction to Algorithms

SKILLS

- **Programming**: Python, SQL, R, Julia
- **Platforms**: Tensorflow, Keras, Scikit-learn, Tableau, Plotly, Google Cloud Platform
- **Specializations**: Machine Learning, Deep Learning, NLP, A/B Test, Visualization

EXPERIENCE

BrainCo Inc. Somerville, MA

Machine Learning Engineer Intern *June 2018 ~ August 2018*

- Developed real-time classifier to categorize EEG data into different sleep stages or wakefulness status
- Reviewed current sleep-stage classification methods and used findings to analyze large scale EEG data
- Implemented Neural Nets onto selected features and achieved state-of-art 93.1% high test accuracy
- Designed experiments to optimize model on new subjects, compiled the results into a presentation

Center of Gerontology and Healthcare Research Providence, RI

Research Assistant *January 2018~March 2018*

- Developed hierarchical generalized linear model to predict re-admission rates for patients with CVD
- Checked the validity of the dataset and examined potential risk factors related to the outcomes in SAS
- Utilized cross validation to optimized the model, and simulated interval estimates using bootstrap
- Summarized the final model and compiled research results into a presentation to other researchers

PayPal Holdings, Inc. Shanghai, China

Operation Specialist Intern *July 2016~December 2016*

- Collected, collated and carried out complex data analysis of in support of client managers' requests
- Improved analysis efficiency by 60% by establishing models that classify clients on their characteristic
- Minimized the time spent on monthly reports by synchronizing data in Excel and PowerPoint via VB
- Reduced the client churn rate by 10% through analyzing the best advertise timing to retain clients

SELECTED PROJECTS

Prediction of usefulness of Yelp Reviews (NLP)

- Parsed restaurants information from Yelp Dataset and implemented relational database using SQL
- Preprocessed text and utilized GloVe and n-gram methods to convert text into word representations
- Built ensemble supervised learning models (bidirectional-LSTM, CNN) to predict the useful votes
- Achieved highest test AUC of 94.5% in classification and visualized key words in a useful review

Kaggle competition: New York City Taxi Trip Duration

- Implemented Elastic net, generalized additive model (GAN), and LGBM to predict taxi trip duration
- Visualized the data in Plotly to do exploratory data analysis and potential spurious trips identification
- Utilized K-Means clustering algorithm to analyze the frequency of pick-up and drop-off spots on map
- Used a LGBM based model that achieved 0.425 Root mean square logarithmic error on test dataset