FRANK XU

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PROFILE

- A DUKE Data Science graduate student & certified writer for TowardsDataScience.com
- Experienced in Data Cleaning, Machine Learning and Databases;
- Focused on Model Interpretation during internship at Wells Fargo;

TECHNICAL SKILLS

- Data Analysis and Visualization: Python, R, Tableau, Excel;
- Machine Learning and Deep Learning: Scikit-Learn, Keras, TensorFlow, H20;
- Data Management: SQL/NoSQL (MySQL, SQLite, Hadoop, Spark);
- Languages: Fluent English; Native Mandarin, Shanghainese;

EXPERIENCE

Intern Data Scientist

Aug. 2019 - Present

SNAP group, TradePending

Carrboro, NC

• Using a GCP VM to deal with a 72-million rows vehicle transaction and trying to improve the existing model using geographical information and clustering techniques.

Data Science Intern

June. 2019 – Aug. 2019

Wells Fargo Bank, Data Management and Insights

San Francisco, CA/Charlotte, NC

- Analyzed customer data and built/tuned RF/GBM models to recommend products.
- Focused on different ways of measuring feature importance of RF models, including H2O, Shap, Boruta, Ranger, Lime.

Data Analyst Assistant

Jan. 2018 - Feb. 2018

EPA, government of Dezhou City

Shandong, China

• Analyzed hourly air pollution and monitored excessive emission; modeled with R and presented more than 20 charts every day for the government's project of improving air quality.

EDUCATION

Master of Interdisciplinary Data Science (expected 2020)

Aug. 2018 - Present

Duke University, Information Initiative at Duke

Durham, N.C.

- Enrolled in the inaugural class with an acceptance rate less than 5%
- Core courses: Bayes Inference, Machine Learning, Text Analysis, Stochastic Process, etc.

Bachelor of Science in Environmental Science

2014 - 2018

Fudan University (Major GPA: 3.54/4.0, top 10%)

Shanghai, China

• Awards: Outstanding Student Scholarship for three consecutive years (2015-2017)

Minor Study in Accountancy

2015 - 2017

Shanghai University of Finance and Economic

Shanghai, China

• Core courses: Principles of Economics

PROJECTS

Kaggle Competition: Identifying Solar PV in Aerial Imagery

Jan. 2019 - Feb. 2019

• Used a Convolutional Neural Network built based on MobileNet to achieve a 97.8% accuracy on identifying solar panels in aerial images and ranked 10% tier.

Analyzing Data for Real Talk

Sept. 2018 - Dec. 2018

- Real Talk is a mobile app available for iOS geared for teenager users. The app allows teens to submit anonymous stories about topics such as puberty, bullying and relationships.
- Ran text & regression analysis with R on a dataset of around 1400 stories, unveiled the connection between teenager psychometric status with demographic information.

Analyzing Annual Pollution Data of Shanghai

2017 - 2018

• Used R to scrape back trajectory data from NOAA, built linear regression models for the air pollution data of Chongming, Shanghai from 2017 – 2018.