# Meng Zhang
## Data Analyst/Data Scientist/Machine Learning Engineer

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## EDUCATION

**The University of Texas at Austin, School of Information**                          Sep 2017 - present
Master of Science in Information Studies. Cumulative GPA: 3.8/4.0
Courses: *Machine Learning, Statistical Methods, Statistical Analysis & Learning, Applied Encryption, Database Management, Personal Informatics, Peer Production, User Generated Content Analytics*

**Beijing University of Posts and Telecommunications, International School, China**          Sep 2013 – June 2017
**(Joint Program) Queen Mary University of London, United Kingdom**          Sep 2013 – June 2017
Joint Program, B.E. in Telecommunications Engineering with Management

## PROFESSIONAL EXPERIENCE

**Research Assistant: Institute of Information Cognition and Intelligent System, Tsinghua University: *China Mobile Communication Corporation (CMCC) Signaling Data Mining Project***          July-Sept 2016
- Performed data mining analysis on a big dataset with millions of lines of CMCC signaling data.
- Summarized attributes that influence CMCC's Quality of Service and found relations of these attributes.
- Illustrated analysis results with visible charts on HTML files using JavaScript D3.js library.

## PROJECTS

**Research Assistant: Microsoft Research Image Captioning Project**          Jan 2019 - present
- Identify state-of-the-art image captioning algorithms and implementing them to generate captions for VizWiz v1.0 dataset, which is collected for researching problem of blind people understanding images, on GPU machines.
- Researched, setup, applied and evaluated state-of-the-art image caption evaluation metrics: BLEU, ROUGE, METEOR, SPICE, CIDEr, etc.

**Machine Learning/ Deep Learning Projects**

Company Employee Reviews Analysis          Feb 2019 - present
- Via TF-IDF analysis, analyze employee's reviews about their current or previous employers and extract keywords for various companies and positions and visualize the result by word cloud.
- Making correlation analysis to test if position/company/turnover has correlation with the numeric ratings to the employers by employees.

Kaggle Competition – Google Quick-draw Image Recognition Challenge          Oct - Dec 2018
- Applied transfer learning which added a fully-connected layer to the Inception V3 model to let the model fit with hand-drawn doodle images recognition problem.
- Performed convolution neural network to train the model with 6.8 million doodle images and predict top 3 categories of test doodle images.

Crowdfunding Projects Result Prediction (CV/NLP/Web Scraping)          Oct - Dec 2017
- Used Python to scrape data about crowdfunding projects with images online. Utilized Google Vision Label Detection and TF-IDF method to quantify collected images.
- Applied Logistic Regression to research on the correlations between total raised funds of online crowdfunding projects and the images these projects provide.

**Database Management Project**          Oct - Nov 2017
- Applied MySQL to store and manage databases of recipes of Chinese foods including ingredients, styles and cuisines.
- Designed and implemented a website to present the recipes via HTML and PHP.

## TECHNICAL SKILLS

Programming Languages: *Python, SQL, Java, PHP*
Data Analysis Tools: *Python Libraries (Numpy, Pandas, Matplotlib, Seaborn), Tableau, Excel, SAS*
Machine Learning Tools & Services: *Scikit-learn, TensorFlow, Caffe, Google Analytics, Microsoft Azure*
Web Scraping: *Requests, Beautiful Soup, Web Scraper (Chrome Plugin)*
Web Design: *HTML, CSS, d3.js*

## HONORS & REWARDS

- Won first prize of the VizWiz Question Answering Classification Challenge among 22 students and won Best Project Award by popular vote in the class of Machine Learning.
- Received the 2018-2019 General ISSS Financial Aid Award from UT.