Yiting Xu

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OBJECTIVE & KEY COMPETENCIES

Creative and analytical problem-solver seeking a Data Scientist, Data Analyst or Statistician full-time position.

• Data Analysis Knowledges: Statistical Analysis, Data Mining, Machine Learning, NLP, Database System, ETLs, Modeling, Data Visualization.

• Software & Tools: Proficient in R, SQL, Python, Tableau, Power BI and MS office. Intermediate level of SAS. Experienced in AWS. Win/Linux

WORKING EXPERIENCE

Georgia State University - Statistician

· Examining Mouse with liver metastasis and lung fibrosis to determine the disease features, treatment modalities and survival outcomes. Built data collection table and applying descriptive statistical analysis for the data in R. Visualizing the result and drawing conclusion with Tableau.

• Correlating diseased mouse MRI images to H&E images with Pearson Correlation Test and Linear Regression in R. Conducting pixel and AUC **analysis** for the image data and making the comparison btw groups to see the disease change through time.

• Classifying the tumor stage images with logistic regression and Creating R shiny dashboard. Organizing result and preparing for publication.

Boehringer Ingelheim – Data Scientist CO-OP

· Collaborated with non-technical group. Understood business demand and assisted with data-related technical issues. Based on the need, designed and lead a protein classification big data AI project using different Machine Learning tools especially the Deep Learning Model to help experiment.

- Accomplished data extracting, transforming and loading (ETLs) with Oracle and R to over 20k raw data entries. Organized data into structure.
- Applied Naïve Bayes, SVM, K-means Clustering, Random Forest and other Machine Learning algorithms to datasets for data classification. Achieved highest prediction accuracy over 80% (with SVM). Set as a base line.
- Designed and implemented Convolutional Neural Network (CNN) model with Keras & TensorFlow in R.

• Set up AWS EC2 cloud service to train the model. Raised the model's accuracy by big percentages from 65% to 91%. Automatically seek out Fales-positive & False-negative samples for scientists. Saved 3 months' experimental time.

Boehringer Ingelheim – Data Analyst Summer Intern

• Extracted patients' clinical data with MySQL. Built data infrastructure in Python.

- Visualized the data to show the difference in patients' sex, age, race, disease stage and other factors distribution with Power BI.
- Selected variables with backward approach. Constructed Logistic model in Python to predict 10 years risk of heart disease and applied Chi-Square test as well as Wald Chi-Square test to estimate odd ratios.
- · Created a report based on the visualization and model prediction result, built dashboard, made poster and gave a presentation to both the technical (IT department) and non-technical team (R&D department) to explain the result.

PROJECT & PUBLICATION

Project from CDC: Medical Service Cost & Utilization Analysis and Prediction

• Studied on the difference in utilization and cost of STD-related Medical Services between people who had anal sex, a risk factor of HIV, and those who didn't. Took charge of database management and data analysis for the project.

- · Queried medical service's data and anal sex history's data from public and restricted dataset using MySQL based on project requirement.
- Merged and Organized the dataset in SAS. Cleaned and dealt with missing value. Used SAS Macros and procedures such as PROC

WTAHJUST, PROC REGRESS and PROC RLOGIST to adjust the sample weights and conduct multivariate statistical analysis.

College Project: Manufacturing Company's Business Operating System (BOS) Building and Management

· Collected data from different tables including information of product, brand, customer, vendor employee and so on. Discovered relationship between tables and created database using MySQL. • Designed and implemented web for the system with HTML to make query straightforward.

EDUCATION

Georgia State University	Atlanta, GA
M.S. in Statistics and Computer Science	Aug 2018-May 2020
• main course: Linear Statistical Analysis, Database, Machine Learning, Data Mining, Big Data Programming, Nonparametric data analysis	
• Leadership: Graduate Math Lab Assistant, Treasure & Secretary for American Mathematics Association (GSU) • Publica	ation: Precise and non-
invasive detection of liver metastases via imaging the biomarker, Structural Aspects and Prediction of Calmodulin-Binding Proteins	
South China University of Technology	Guangdong, China
B.S. in Economics	Sep 2014-June 2018
• Honors: Second-class scholarship (top16%) in 2016, Third-class scholarship in 2015 and 2017, National College Student Business Plan	
Competition-Guangdong Province's Bronze Award (Project Leader), National Internet Financial Challenge Competition-top	o 20 in China (Leader)

Feb 2020 - Jun 2020

Jul 2020 – Present

Jun 2019 - Aug 2019