**Jasmine (Ziyue) Yu**

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**SUMMARY**

An insightful, detail-oriented data analyst, with hands-on experience in data retrieving, wrangling, modeling and visualizing. Graduated with honor in psychology and committed to apply machine learning in healthcare study; 2+ years’ experience in psychology research and 2+ years’ experience in data analysis. Authorized to work for any employers under OPT status until 2022.

**EDUCATION**

**College of William and Mary, Raymond A. Mason School of Business**

M.S. Business Analytics (STEM) May 2020

Coursework: Machine Learning, Database Management, Data Visualization, Optimization, Big Data, Artificial Intelligence

**University of Missouri, Columbia**

B. S. (Honors) in Psychology and Mathematics Minor (GPA: 3.85/4.00)

Curator's Grant-in-Aid Scholarship $2,000 | President’s Scholarship $2,000

Publication: Yu, Z., & Womick, J., & Professor, K. (April 2018). *Does Intrinsic Interest Promote Meaning in Life*?

**Languages:** Fluent in English and Chinese, upper intermediate in Korean

**TECHNICAL SKILLS**

Python • R • SQL • Tableau • Alteryx •Excel (Solver) • AWS • SPSS • Machine Learning • Survey Design • Data Wrangling

**PROFESSIONAL EXPERIENCE**

**Riverside Health System** Williamsburg, VA

Capstone Data Scientist Apr. 2020 – May 2020

* Deciphered PDF data with over 800 thousand medication orders from RHS and applied Regex to split and create extra features; left joined external data sources to further investigate reasons causing delayed medication verification time
* Conducted clustering analysis to diagnose outlier orders and find commonalities among them; offered advice to speed up the process
* Simulated a queuing model to quantify the estimated speed-up (around 26%) of verification time after taking suggestions.

**BEALL GSA Business Consulting Services Ltd.** Beijing, China

Business Analyst Jun. 2018 – Jun. 2019

* Extracted over 1000 daily transactional data from operational database by using SQL; used aggregation function to provide systematic report and load the analytical information to data warehouse
* Provided insightful visualization dashboard in simplicity by using Excel; offered valuable decision-making suggestions to C-level.
* Detailed requirements of foreign clients including Hawaii Airline, Budget, and Biman Bangladesh Airline by extracting useful information from case book

**University of Missouri-Columbia** Columbia, MO

Lab Research Analyst Leader at Sheldon Research Lab & Personality Dynamics Lab Dec. 2016 - May 2018

* Extracted 3000+ JSON survey responses semesterly from Mizzou IRB System and loaded transformed data into department database
* Analyzed the trend of volunteers’ volume using ARIMA model and found pattern for active participant by using Random Forest
* Enlarged 40% research sample space by organizing event periodically at department where most active participants come from

**PROJECTS & COMPETITION**

**Raymond A. Mason School of Business Datathon** Jan. 2020 – Mar. 2020

* Lead a team of 4 MSBA candidates to compete with 20 + teams and win the third place for conducting credit risk analysis
* Implemented exploratory data analysis on1.5 million credit card data by selecting correlated features and engineering useful features
* Built a random forest model and a gradient boosting tree model to classify default; resampled data to improve classification accuracy

**Selected Data Science Projects**

Data Acquisition

* Project 1: Scraped and downloaded over 10000+ ongoing/ finished investment projects from Asian Development Bank in PDF, programmed in parallel to increase the runtime speed in 400%; saved human effort enormously
* Project 2: Grabbed over million records of climate data through climatewatch.org API; reorganized the json data to readable format

Modeling

* Linear regression: Implemented the algorithm using gradient descent from scratch. Run test datasets and compared to the result by using normal equation and Scikit-learn
* Logistic regression: Fitted a logistic regression model for Kaggle titanic dataset to classify the survivals of passengers

**VOLUNTEER EXPERIENCE**

**Heritage Humane Society, Williamsburg, VA** Sep. 2019 – Mar. 2020

* Volunteered to participate in cage-cleaning, dog walk, and fundraiser

**Bluff Creek Terrace, Columbia, MO** Lifestyle Coordinator Assistant May 2016 – Aug. 2016

* Collaborated full-time with Lifestyle Coordinator to design and participate in daily activities for senior resident