Yumiao (Jenny) Hui

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EDUCATIONAL BACKGROUND

University of Michigan 08.2021-05.2023

Applied Statistics, Master of Science

GPA:3.76/4.0

Sun Yat-sen University, China

09.2016-07.2020

Information and Computing Science, Bachelor of Science

GPA: 3.7/4.0

Major Courses: Computational Methods and Tools in Statistics, Machine Learning and Data Mining,

Computer Network, Data Structures and Algorithms, Operating System, Statistical Inference,

Database Application Design, Statistical Learning II: Multivariate Analysis, Cloud Computing

Relevant Skills: C++, Python (PyTorch, TensorFlow, Keras, scikit-learn, ggplot2), MATLAB, R,

SPSS, Java, MySQL, Tableau, Hadoop, Jupyter Notebook, AWS tools, Django, Machine learning

Student Summer Program: Oxford Prospects Program, at University of Oxford, UK

07.2018-08.2018

INTERNSHIP EXPERIENCES

Data Internship, Edugion, U.S

12.2021-Current

Summarized and updated worldwide stock exchange information in website database collaborating with colleagues Visualized trade associations with industry information on a world map in Tableau and Power Map Conducted data cleaning on 50000 companies' information on nice formatting and missing values

Web & IT Services Internship, Cappemini, China

04.2021-07.2021

Created and executed several AWS ETL jobs with AWS Glue and applied Kinesis and SQL to analyze stream 5GB data Assisted with database management and provided comprehensive IT Desktop operation & maintenance services

Part-Time Assistant, Boston Consulting Group, Remote, China

07.2019-09.2019

Attended industry research on digital asset custody: using python crawler to collect keywords from over 1000 webpages Estimated the proportion of a specific future product with linear regression model based on the processed data Implemented a field survey included cold calls, gathering fresh first-hand information over 80 beer products

Made basic analysis and created slides to illustrate the insights from market proportions of beer brands proportions in local

Data analyst Internship, Ernst & Young Global Limited, China

01.2019-03.2019

Built Journal Entry and Trial Balance forms to check the accuracy of structured data from clients
Used data visualization tools like Tableau to identify key issues and opportunities in due diligence & valuation
Analyzed reports of target international companies in Japanese and summarized key figures and metrics for team

RESEARCH EXPERIENCES

Membership, Query-Based Recommendation by HIN Embedding with PRE-LSTM

09.2019-11.2020

Dissertation, accepted by ADMA2020, published in Lecture Notes in Artificial Intelligence (LNAI) by Springer

Used pre-trained word embeddings and LSTM to train network embeddings and learned the relationship among the tables, users, and keywords

Transferred keywords, tables, and users into Heterogeneous Information Network and adopted Random Walk method to generate meta-paths to characterize semantic meanings for HIN

Made the query-based recommendation for keywords from users and showed user-specific recommendation tables sorted in a reasonable order

Membership, Combined Density Peak and K-means Clustering on Image Segmentation Working Paper

03.2018-07.2018

Practiced various kinds of clustering methods like K-means and Density Peak to conduct image segmentation Combined K-means and Density Peak Clustering together and made improvements on running time

PROJECT EXPERIENCES

Group Project, Hotel Booking Demand Analysis from Kaggle

11.2021-12.2021

Conducted data manipulation and exploratory data analysis on dataset after cleaning from the raw data with R Applied statistical tools like Bootstrap/Permutation Test and several machine learning algorithms such as KNN, SVM, Random Forest, Logistic Regression, Naïve Bayes Classifier on prediction of hotel booking cancellation

Independent Project, Database Application Design

01.2022-04.2022

Built several Create, Retrieve, Update and Delete Applications with Log-in page on Website with Django framework
Designed a classified ad website that allowed GitHub accounts with creating, presenting, editing, and searching ads
Independent Project, **Biostatistical Analysis on MIMIC Dataset**05.2018-07.2018

Performed various SQL tasks like creating new tables, making joins, and conducting data manipulation on the dataset Made statistical inferences and exploratory data analysis on several related biostatistics' metrics with Python & Tableau