Yangqin Yan

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EDUCATION

University of Michigan School of Information (UMSI), Ann Arbor

M.S., Master Science of Information June, 2023 (Expected)

Cumulative GPA: 3.94/4.00

University of Michigan - Shanghai Jiao Tong University Joint Institute (UMJI), Shanghai

B.S., Electrical and Computer Engineering June, 2022 (Expected)

Minor in Computer Science

RESEARCH EXPERIENCE

Autonomous Positioning System for Indoor Pedestrians *Researcher,* March, 2020 - October, 2020

School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University

- Finished the app development that can acquire data in the sensors of smart phones.
- Built a cloud server with SQL Database.
- Connected the positioning algorithm with SQL Database for data communication.

Time Series based Smartphone Waking Prediction *Research Assistant,* October, 2020 – present

Wireless Networking and Artificial Intelligence Lab, UMJI, Shanghai Jiao Tong Univeristy

- Preprocessed power consumption data of mobile phones and labeled them as training data.
- Improved accuracy of learning model using input normalization.

SELECTED PROJECTS

Analysis of Students Admitted by Top Universities SI618 Data Manipulation and Analysis

UMSI, University of Michigan October, 2021 – November, 2021

- Joined the datasets of students' information and top universities rankings using SQL.
- Preprocessed and cleaned the data for analysis using pyspark.
- Found the relationship between students' average TOEFL scores and universities' ranks.

Search Engine for Food with Query Expansion SI650 Information Retrieval

UMSI, University of Michigan October, 2021 – December, 2021

- Built an Information Retrieval(IR) system with the function to search food recipes.
- Applied learning to rank machine learning model to improve the performance of the IR system.
- Added functions like ingredients filtering using tokenization to refine the search results.

Word2Vec for Wikipedia SI630 NLP, Algorithms and People

UMSI, University of Michigan January, 2022 – Now

- Used subsampling and negative sampling to generate training data for neural networks.
- Implemented Word2Vec model and accelerated the computation speed.
- Built training pipeline and evaluated the model.

Robotgame Visualization SI649 Information Visualization

UMSI, University of Michigan November, 2021 – December, 2021

- Built interactive tree graph using python to show relationship between different robots.
- Built interactive line chart and did regression using Altair to predict robot information.
- Designed User Interface to help user read and explore visualizations.

SKILLS

- Programming Language: Matlab, C/C++, Java, R, Python, SQL, Spark, Hadoop, MapReduce
- Professional Software: Vivado, Multism, Origin, SQLServer, Tableau