Yuki (Yuxin) Chen

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EDUCATION

University of British Columbia, Kelowna, Canada — September 2022 – Present
Data Science, M.S. | **GPA: 91.9/100**
- Relevant Courses: Algorithms and Data Structures, Databases and Data Retrieval, Web and Cloud Computing.

Shanghai University of International Business and Economics, Shanghai, China — October 2018 – June 2022
Data Science and Big Data Technology, B.S. | **GPA: 88.49/100**
- Relevant Courses: C++ Programming, Python Programming, Data Mining and Machine Learning, Data Visualization, Natural Language Processing, Computational Statistics, Linear Algebra, Bayesian Statistics, Artificial Intelligence.
- Honours: First Prize Scholarship (Autumn 2020), Second Prize Scholarship (Spring 2021, Spring 2020, Autumn 2019, Spring 2019), Outstanding Student Leadership Award (2020).

University of California, Los Angeles — February 2021
Big Data and Business Applications Online Programme | **GPA: 4.3/4.3**
- A 10-week intense program; with emphasis on case studies.

TECHNICAL SKILLS

Programming: C++, Python, SQL, R, Golang, Lingo
Software: AIMMS, Tableau, MATLAB, Photoshop, Director, Audition, Excel, Management Scientist
Platforms: Linux, Windows
Open-Source Frameworks: Scikit-learn, Keras, TensorFlow, Pytorch

PROFESSIONAL EXPERIENCE

JustPractice Technologies Inc — Vancouver, Canada, Remote
Data Scientist Capstone Intern — May 2023 – Present
- Apply natural language processing technology to extract information from medical free-text notes, tabulate and structure data related to heart failure in Python, and accelerate the doctor's diagnosis of the patient.
- Work in a team of 4 to analyse medical free-text notes.

Optimization Analytics Technology Pte Ltd., Shanghai Office — Shanghai, China
Optimization Algorithm Intern — September 2021 – March 2022
- Analyze client needs, formulate optimization problems, and process data with SQL; build mathematical models using AIMMS; develop algorithms and calculate optimal results in C++/Java/Python.
- Work in a team of 4 on optimization analytics for network planning and resource allocation.
- Exposed to large datasets and real-world challenges faced by various industries.

RESEARCH PROJECTS

Task-oriented Question Answering for Traditional Chinese Medicine (TCM) — May 2021 – May 2022
Advisor: Dr. Liangliang Liu
- Designed and implemented an algorithm for joint-model question answering and information retrieval (an NLP dialogue system) for TCM diagnosis and prescription recommendation.
- Constructed a TCM knowledge graph based on Compendium of Materia Medica using Python and Neo4j.
- Part of a national project on TCM knowledge mapping, co-working with the Chinese Academy of Sciences and the Institute of Basic Research in Clinical Medicine, China Academy of Chinese Medical Sciences.

Chinese Text Retelling Algorithm Based on Multi-level Semantic Units — March 2021 - October 2021
Advisor: Prof. Chengcheng Hao
- Proposed a text retelling method for automated semantic augmentation aimed towards dialogue systems.
- Developed an algorithm to replace extracted Chinese words with synonyms determined by context features, sentence templates, and candidate sets, using a bidirectional LSTM model based on the attention mechanism.

Tag-based Hybrid Bayesian Personalised Ranking for Literature Recommendation — June 2020 - October 2020
- Developed a recommender system using hybrid Bayesian personalized ranking and weight coefficient algorithms, based on user interactions extracted from Wanfang Data with Python.

Community Health Pass App — April 2020
- Built an app with App Inventor for communities and residences to manage health profiles and entry records of residents, by using a web API to generate and read QR codes; improving community health during the pandemic.