Ching-Wen (Jasmine) Wang

cwang553@wisc.edu +1 312 307 2291 Madison WI, USA linkedin.com/in/ching-wen-jasmine-wang
github.com/JasmineWang553 jasminewang553.github.io/Ching-Wen-Jasmine-s-Portfolio/

EXPERIENCE

Undergraduate Research Assistant

UW-Madison Skunkworks Informatics

January 2021 - Now Madison, WI

- Reviews literatures of state-of-art machine learning NLP methods for material science information extraction
- Reproduces extractions of magnetic phase transition temperatures from 68,078 journal articles using ChemDataExtractor and Snowball Algorithm from a NLP paper in material science

Undergraduate Research Analyst

UW-Madison Life Science Lab

September 2019 - December 2019 Madison, WI

- Analyzed data to assist Professor Chen in composing proposal for the United Nation's Voice of the Hungry project of Food and Agriculture Organization
- Collected data from Gallup World Poll questionnaires
- Performed data aggregation and visualization with R for further Exploratory Data Analysis

Undergraduate Lab Financial Assistant

UW-Madison Richard A. Anderson Lab

September 2018 – December 2019 Madison, WI

- Maintained and balanced budget of $11,000 per month
- Projected future lab expenditures based on past expenditures with lab financial manager using Excel
- Optimized budget management by organizing product orders into spreadsheets and checking on financial status with research scientists during weekly meetings

PROJECTS

Knowledge Graph Construction

Machine Learning Course Final Project

November 2020 - December 2020 Madison, WI

- Goal: Compare the accuracy of 3 different packages, spaCy, Stanford OpenIE, and Stanford Scene Graph Parser, in constructing Knowledge Graph from real life texts.
- Contribution: Utilized Stanford OpenIE with Python wrapper to successfully extract triplets from 300 sentences.
- Techs: Java | Python | spaCy | NetWorkX | Stanford NLP | Stanford Scene Graph Parser

Classification of Heart Failure Patients

UW Data Challenge

September 2020 - October 2020 Madison, WI

- Goal: Create a model that predicts death or alive in heart failure patients given different heart conditions and chronic diseases of patients.
- Contribution: Extracted 100 sentences from text data and implemented techniques of machine learning to create a model for prediction.
- Techs: Feature Selection | Random Forest | Grid Search CV

ACHIEVEMENTS

UW Data Challenge: Best Oral Presentation

UW Undergraduate Statistics Club

October 2020

Financial Mathematics Exam Certificate

Society of Actuaries

June 2018

Academic Dean's List

UW-Madison

2017-2019

PROFESSIONAL SKILLS

Python ●●●○○
R ●●●○○
JAVA ●●○○○
SQL ●○○○○

EDUCATION

B.S. in Statistics

University of Wisconsin-Madison, School of Letters and Science

Sept 2017 – May 2021

- GPA: 3.7

Certificate in Computer Science

University of Wisconsin-Madison, School of Letters and Science

Sept 2017 – May 2021

STRENGTHS

- Language

Mandarin | English

- Development Tools – Text Editors & IDE

Jupyter Notebook | R Studio | R | Eclipse IDE | VS Code | Overleaf

RELEVANT COURSES

Regression Analysis, Linear Optimization, Stochastic Processes, Machine Learning, Deep Learning, Human Computer Interaction