

Chun Yu Wu

Data Scientist

Profile

Data Scientist with Industrial Engineering background and 3+ years of experience using predictive modeling, operations research and data mining algorithms to solve challenging problems. Passionate about deep neural network.

Education

MS in Industrial & Systems Engineering, State University of New York at Binghamton, Binghamton, US

August 2018 — May 2020

- Cumulative GPA: 3.90/4.00
- Alpha Pi Mu Industrial Engineering Honor Society

Bachelor in Industrial Engineering, Tunghai University, Taichung, Taiwan

September 2012 — June 2016

- Cumulative GPA: 3.32/4.00

Project

INFORMS 2020 QSR Data Challenge - CT Scan Diagnosis for COVID-19, Binghamton

May 2020 — Present

- Designed Lung CT image segmentation algorithm to improve image classification performance.
- Developed classification model by transfer learning with limited image quality and sample size.

Short Single Lead ECG Classification by Convolutional Neural Networks, Binghamton

August 2019 — May 2020

- Developed ECG signal segmentation algorithm with python to extract heartbeats features datasets.
- Designed and developed time series classification of Atrial fibrillation with 1D convolution neural network classification model and Image classification of Atrial fibrillation via 2D convolution neural network classification model which reached 95.3% accuracy.

Employment History

Research Assistance at Tunghai University, Taichung, Taiwan

May 2018 — August 2018

- Developed simulation model design pipeline of slide rail manufacturing processing.
- Organized manufacturing data and extracted useful subset via PostgreSQL and conducted data cleaning with R.

Details

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Links

[LinkedIn](#)

[Github](#)

Skills

Machine Learning

Python

R

SQL

Matlab

C/C++

HTML/CSS

Languages

Chinese

English

Internships

Intern at Genius Electronic Optical, Taichung, Taiwan

July 2015 — August 2015

- Developed LED manufacturing process simulation model via Simul 8.
- Simulated manufacturing process and identified the bottleneck of process via productivity efficiency.
- Provided solutions of productivity improvement to increase overall efficiency by resource allocation optimization.

Intern at Sanneng Bakeware Corporation, Taichung, Taiwan

December 2014 — May 2015

- Conducted data cleaning to manufacturing data via R.
- Developed packaging process simulation model and provided efficiency improvement plan via resources allocation optimization.
- Set up standard operation procedure (SOP) and standard workforce of workstation in packaging department.
- Assisted products packaging and monitored inventory level.

Extra-curricular activities

President at Binghamton University Taiwanese Student Association, Binghamton, US

March 2019 — March 2020

- Organized welcome events and hosted orientation for Taiwanese students.
- Provided services for house moving, living guides and help to members.
- Coordinate celebration events for members to stay connected and exchange information and life experiences.

Graduation Committee member at Tunghai University, Taichung, Taiwan

January 2016 — August 2016

- Gathered and conveyed students suggestion to committee and reported feedback.
- Represented Industrial Engineering graduates to coordinated graduation events with committee.