



Wenting Wang

Research Interest Neuroscience, Computation, Statistics

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Education

M.Sc. Neural Information Processing from 10.2021
University Tuebingen, Germany

M.Sc. Social and Economic Data Analysis 10.2016 - 12.2019
University Konstanz, Germany

Exchange, Computer Science 08.2018 - 12.2018
University of Massachusetts Amherst, USA

Exchange, Economics and Business Administration 04.2015 - 08.2015
University Passau, Germany

B.Sc. Statistics 09.2012 - 09.2016
Southwestern University of Finance and Economics, China

Research Experience

Master Thesis University Konstanz 03.2019 - 09.2019
Predicting Court Decision: a Multimodal Deep Learning Perspective.
Predict the judicial court decision, based on a fusion model with multimodal deep learning and natural language processing techniques, utilising structured data(case background), text, and audio(oral arguments corpus) from the Supreme Court of the US.

Internship Continental AI and Robotics Lab, Regensburg 09.2017 - 03.2018
Project 1: Fuel Efficient Fleet.
Design a prototype based on the customized neural network model to monitor and motivate fuel-efficiency driving actions, leveraging high-frequency panel data of fleet driving behaviours (GPS, speeding, shifting, idle, etc.).
Project 2: Online Indoor Localisation.
To localise objects indoors in realtime, train the Random Forest and SVM model using secondly time-series data collected from wireless sensors, based on AutoML technicals, i.e., automotive optimising hyper-parameter and parameter, and parallel computing on AWS cloud platform.

Lecture Projects University Konstanz 2017 - 2018
Deep Learning Project: Driver, Riders and Helmets Detection in the Traffic Video.
To automatically identify motorcycle drivers and riders, examine their helmet-wearing status by training the computer vision models (CNN, YOLO) parallel on Google Cloud Platform, using traffic video recorded in Myanmar.
Machine Learning Project: Bike-sharing Demand Forecast.
Forecast bike rental demand of the bike-sharing project in a city by training several machine learning models (Random Forest, SVM, XGBoost), utilising daily historical usage patterns and weather data.

Work Experience

Research Assistant Werner Siemens Imaging Center from 01.2022
- Implement real time fMRI and PET toolkit, for brain imaging in animal models of neurodegenerative diseases.
- Explore on building hybrid model for fMRI and PET data analysis.

Data Analyst and Programmer Sanofi R&D, Chengdu 04.2020 - 02.2021
- Build the risk-based monitoring and prediction system, to improve clinical trial data quality and lower cost, based on statistical tests and machine learning.

- Design and visualise information through interactive website, for providing users direct insights of clinical trial process.
- Build pipeline for automatic workflow of data extraction, transformation and loading, end-to-end from database to user interface.

Languages

Chinese	Native
English	Proficient
German	Intermediate

Skills

Python, R, C++, Matlab, Stata, SPSS, Tableau, SQL, AWS, Google Cloud Platform, HTML, CSS, JavaScript, D3.js, Vega, Docker, gRPC, Jinja, bash/zsh

Awards

Honourable Mention - USA Mathematical Contest in Modelling, 2015
 - *Theme: Ebola Virus Spreading Forecast*
 Silver Award - China Undergraduate Mathematical Contest in Modelling, 2014
 - *Theme: Creative Foldable Chair Design and Modelling*
 Tsinghua University First-class Art Certification - Flute and Piccolo, 2012
 Silver Award - Asian Music Festival Symphony Competition, Singapore, 2010