WENTING WANG

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EDUCATION

PhD Student, Computational Psychiatry 2022 -
Max Planck Institute for Biological Cybernetics and Tuebingen Hospital Psychiatry

M.Sc. Computational Neuroscience 2021 -
University Tuebingen, Germany

Exchange, Computer Science 2018
University of Massachusetts Amherst, USA

M.Sc. Data Science 2016 - 2019
University Konstanz, Germany

Exchange, Economics and Business Administration 2014 - 2015
University Passau, Germany

B.Sc. Statistics 2012 - 2016
Southwestern University of Finance and Economics, China

RESEARCH EXPERIENCE

Research Assistant, MPI for Biological Cybernetics and Tuebingen Hospital Psychiatry 2022.04 - 2022.10
Literature review on data-driven and theory-driven methods to computational psychiatry. Implement the bayesian and reinforcement learning methods for information processing modelling, with behavioural and neuroimaging data.

Research Assistant, Werner Siemens Imaging Center 2022.01 - 2022.03
Implement realtime fMRI and PET embedding function, for brain imaging in animal models of neurodegenerative diseases. Explore on building multimodel for fMRI and PET data analysis.

Master Thesis, University Konstanz 2019.03 - 2019.09
Predicting Court Decision: a Multimodal Deep Learning Perspective. Predict the judicial court decision, based on a fusion model with multimodel 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.

Lecture Projects, University Konstanz 2017 - 2018
Deep Learning Project: Driver, Riders and Helmets Detection in the Traffc Video. To automatically identify motorcycle drivers and riders, examine their helmet-wearing status by training the computer vision models (CNN, YOLO) parallel on Google Could 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

Data Analyst and Programmer, Sanofi R&D, Chengdu 2020.04 - 2021.02
Build the risk-based monitoring and prediction system, to improve clinical trail 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.

Research Internship, Continental AI and Robotics Lab, Regensburg 2017.09 - 2018.03
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.

SKILLS

Programming

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

Languages

Chinese(Native)

English(Proficient)

German(Intermediate)

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

First-class Art Certification, Tsinghua University 2012
Flute and Piccolo

Silver Award, Asian Music Festival Symphony Competition Singapore 2010