Yiying Dong

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PERSONAL

Gender: female Age:24 Nationality: Chinese Github: https://yiyingdong.github.io

EDUCATION

Chongqing University of Posts and Telecommunications (CQUPT) Sep. 2018 - Jun. 2022

*B.S(**Hons**) in Software Engineering* (GPA: **3.65**/4.0, Score: **88**/100, Rank: **2**/139, IELTS: **7.0**)

University of California, Santa Barbara (UCSB), USA Jul. 2021 - Aug. 2021

Summer school (Building the Blockchain world: Technology, Society and Innovation)

Nanyang Technological University (NTU), Singapore Jan. 2021 - Mar. 2021

Artificial Intelligence Internship Programme (NTU business AI laboratory under Dr. Teoh TeikToe)

WORK EXPERIENCE

Eastern Institute of Technology, Ningbo Mar. 2024 - Aug. 2024

Research Assistant

- Conducted research on multimodal models and their applications in vertical domains, exploring their potential in information extraction and video generation under the guidance of Professor. Guodong Guo.
- Investigated multimodal data fusion techniques, contributing to advancements in the field.
- Filed a patent application related to the research findings.

Shenzhen Readline Biotech Co., Ltd. Apr. 2023 - Feb. 2024

Research Assistant

- Engaged in pioneering research at the intersection of signal processing and machine learning under the guidance of Associate Professor Jian Liu at the University of Birmingham.
- Enhanced the performance of artificial intelligence-assisted enzyme design models through advanced NLP techniques, contributing to interdisciplinary research.
- Developed an innovative predictive model for enzyme kinetics parameters, showcasing a commitment to pushing scientific boundaries.
- Filed two patents related to language model's downstream tasks.

RESEARCH & PROJECT EXPERIENCE

Super Resolution Reconstruction

Chongqing University of Posts and Telecommunications Mar. 2022 - Jun. 2022

- Studied single-image super-resolution reconstruction with Prof. Xinbo Gao and Dr. Jiaxu Leng.
- Studied binary networks in super-resolution reconstruction.

Design and Implementation of Image Colorization Based on Deep Learning

Chongqing University of Posts and Telecommunications Jan. 2022 - May. 2022

- Collected data from ImageNet, VOC2007 and VOC2012.
- Proposed two machine learning based methods (an instance-aware image-colouring network and a semantic information-based generative adversarial network) for image colorization and compared with two classical algorithms.
- Obtained the **outstanding undergraduate thesis award**.

Anomaly detection system for tracking missing children

CHINA HI-TECH GROUP CO., LTD. Jul. 2021 - Sep. 2021

- Designed an early warning system for tracking missing young children.
- Proposed a machine learning based algorithm for detecting children's abnormal behaviors.
- Launched the system to assist local police department in real cases.

Machine learning based business risk management

Business AI laboratory at Nanyang Technological University Jan. 2021 - Mar. 2021

- Received intensive training on machine learning models and data analysis techniques.
- Implemented several state-of-the-art machine learning algorithms for risk management and investigated the impact of parameter selection.
- Presented the project with **distinction** grade.

Facial expression recognition

Chongqing University of Posts and Telecommunications Nov. 2020 - Mar. 2021

- Collected data from NIR KMU-FED dataset and students in the university.
- Proposed several machine learning based methods for expression recognition.

Practical driver monitor system (DMS) for logistics and supply chain management

Chongqing University of Posts and Telecommunications Oct. 2020 - Mar. 2021

- Developed standard operating procedure (SOP) for pre-processing the data of logistics vehicles.
- Proposed several machine learning based methods for driver's identification, fatigue monitoring.
- Involved in front-end design for the warning system of abnormal driving.

GRANTED PATENTS & COPYRIGHTS

- A smart yoga motion guidance system based on 3D reconstruction (CN112422946B)
- Vehicle Electronic License Plate Information Management System (Software Copyright Registration Number: 5950072)
- Centralized Charging Management Platform for Electronic Vehicle License Plates (Software Copyright Registration Number: 7509836)

SELECTED HONORS & AWARDS

- China National Scholarship (**0.2%**), 2021
- 1st prize of the RoboWork, 2021
- 1st prize scholarship and merit student of Chongqing University of Posts and Telecommunications (1%), 2020
- 3rd prize of the "Huawei Cloud" Software Innovation Competition, 2020
- 2nd prize of the "Huawei Cup" IoT Innovation Competition of CQUPT, 2020
- 3rdprize of the "National College Students Competition for Internet of Things Technology and Application", 2020

PROFESSIONAL SKILLS

Programming language: Python, C, C++, Java, JavaScript, R, LaTex
Machine learning library: PyTorch, TensorFlow, Caffe, Keras, Open CV

ACTIVITIES & INTERESTS

Activities: teaching assistant, laboratory supervisor, academic conference coordinator, student union
Interests: Marathon, travelling, photography, video editing