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 <u>Professor</u>. <u>Guodong Guo</u>.
- · 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 <u>Prof. Xinbo Gao</u> and <u>Dr. Jiaxu Leng.</u>
- · 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

- · 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