Dr. Happy Monday

Senior Researcher & Leacturer

Chengdu, China
13228106532
Wechat: nkanta17
happy.monday@zy.cdut.edu.cn
Github *Linkedin* *ResearchGate* *Publons*

Summary

A passionate computer vision and deep learning expert with years of research experience and a PhD in Computer Science and Engineering. As a Senior Researcher and Lecturer at Oxford Brookes University of Chengdu University of Technology, a Sino-British collaborative education program, I am driven by the desire to bridge advanced computational techniques with practical applications in medical imaging and AI. My research focuses on deep learning, machine learning, wavelet transform, and their integration into medical image processing, recognition, and fault diagnosis. With a proven track record of publishing over 50 papers and achieving significant recognition for my contributions such as the "Best Paper Award" at the 2021 International Conference on Pattern Recognition and AI (PRAI). I am dedicated to advancing the state of AI through innovative methodologies. My works have received over 653 citations and I have been recognized with numerous awards for academic performance and excellence in research. I have mentored and supervised numerous graduate and undergraduate students, helping them develop skills in deep learning, machine vision, and academic writing. As an active contributor to the academic community, I serve as a peer reviewer for various prestigious journals in the field, including IEEE Transactions on Industrial Informatics and Journal of Medical Internet Research.

Web of Science Google Scholar orcid Stackoverflow Personal Website

Education

2022: **PhD, Computer Science & Engineering**, *University of Electronic Science & Technology of China*, China.

Research Area: Medical image processing, Deep learning, Machine learning, Computer vision, Data analysis, Wavelet transform, Data acquisition and analysis, Signal data processing, Machine fault diagnosis, Multi-resolution analysis, ECG biometric identification

Dissertation: Research on Multi-Resolution Wavelet Deep Neural Network and Its Applications

2018: **Master of Engineering, Electronic Science and Technology**, *University of Electronic Science & Technology of China*, China.

Research Area: Machine learning, Electromagnetic compatibility (EMC), Supervised and Unsupervised learning, Fault diagnosis, Patch antenna

Thesis: Construction of Equivalent Model of Patch Antenna using Magnetic Dipoles

2014: **Bachelor of Engineering, Agricultural Engineering**, *Federal University of Technology, Akure*, Nigeria.

Thesis: Biogas Production from Anaerobic Digestion of Cow Dung with Crop Residues

Publications

Journal Articles

Paper Title: **Enhanced Cardiovascular Disease Prediction Modelling using Machine Learning Techniques: A Focus on CardioVitalnet**

Authors: Chukwuebuka Joseph Ejiyi, Zhen Qin, Grace Ugochi Nneji, **Happy Nkanta Monday**, Victor K. Agbesi, Makuachukwu Bennedith Ejiyi, Thomas Ugochukwu Ejiyi, Olusola O. Bamisile

Journal: Network: Computation in Neural Systems

Date: 2024

Paper Title: **Comparative performance analysis of Boruta, SHAP, and Borutashap for disease diagnosis: A study with multiple machine learning algorithms**

Authors: Chukwuebuka Joseph Ejiyi, Zhen Qin, Chiagoziem Chima Ukwuoma, Grace Ugochi Nneji, **Happy Nkanta Monday**, Makuachukwu Bennedith Ejiyi, Thomas Ugochukwu Ejiyi, Uchenna Okechukwu, Olusola O. Bamisile

Journal: Network: Computation in Neural Systems

Date: 2024

Paper Title: **Breast cancer diagnosis and management guided by data augmentation, utilizing an integrated framework of shap and random augmentation**

Authors: Chukwuebuka Joseph Ejiyi, Zhen Qin, **Happy Monday**, Makuachukwu Bennedith Ejiyi, Chiagoziem Ukwuoma, Thomas Ugochukwu Ejiyi, Victor Kwaku Agbesi, Amarachi Agu, and Chiduzie Orakwue

Journal: Biofactors

Date: 2024

Paper Title: **Lightweight separable convolution network for breast cancer histopathological identification**

Authors: Grace Ugochi Nneji, **Happy Nkanta Monday**, Goodness Temofe Mgbejime, Venkat Subramanyam R. Pathapati, Saifun Nahar, and Chiagoziem Chima Ukwuoma

Journal: Diagnostics

Date: 2023

Paper Title: **The Internet of Medical Things in Healthcare Management: A Review**

Authors: Chukwuebuka Joseph Ejiyi, Zhen Qin, Makuachukwu Bennedith Ejiyi, Grace Ugochi Nneji, **Happy Nkanta Monday**, Favour Amarachi Agu, Thomas Ugochukwu Ejiyi, Chidinma Diokpo, Chiduzie Obed Orakwue

Journal: Journal of Digital Health

Date: 2023

Paper Title: **Automated lung-related pneumonia and covid-19 detection based on novel feature extraction framework and vision transformer approaches using chest x-ray images**

Authors: Chiagoziem Chima Ukwuoma, Zhi-Quang Qin, Md Belal Bin Heyat, Faijan Akhtar, Abla Smahi, Jehoiada Jackson, Syed Furqan Qadri, Abdullah Yahya Mohammed Muaad, **Happy Nkanta Monday**, and Grace Ugochi Nneji

Journal: Bioengineering

Date: 2022

Paper Title: **Multi-classification of breast cancer lesions in histopathological images using deep_pachi: Multiple self-attention head**

Authors: Chiagoziem Chima Ukwuoma, Md. Altab Hossain, Jehoiada Jackson, Grace Ugochi Nneji, **Happy Nkanta Monday**, and Zhi-Quang Qin

Journal: Diagnostics

Date: 2022

Paper Title: **A wavelet convolutional capsule network with modified super-resolution generative adversarial network for fault diagnosis and classification**

Authors: **Happy Nkanta Monday**, Jianping Li, Grace Ugochi Nneji, Saifun Nahar, Md Altab Hossin, Jehoiada Jackson, and Ariyo Oluwasanmi

Journal: Complex & Intelligent Systems

Date: 2022

Paper Title: **Covid-19 diagnosis from chest x-ray images using a robust multi-resolution analysis siamese neural network with super-resolution convolutional neural network**

Authors: **Happy Nkanta Monday**, Jianping Li, Grace Ugochi Nneji, Saifun Nahar, Md Altab Hossin, Jehoiada Jackson, and Chukwuebuka Joseph Ejiyi

Journal: Diagnostics

Date: 2022

Paper Title: **Covid-19 pneumonia classification based on neuro wavelet capsule network**

Authors: **Happy Nkanta Monday**, Jianping Li, Grace Ugochi Nneji, Saifun Nahar, Md Altab Hossin, and Jehoiada Jackson

Journal: Healthcare

Date: 2022

Paper Title: **Wmr-depthwisenet: A wavelet multi-resolution depthwise separable convolutional neural network for covid-19 diagnosis**

Authors: **Happy Nkanta Monday**, Jianping Li, Grace Ugochi Nneji, Md Altab Hossin, Saifun Nahar, Jehoiada Jackson, and Ijeoma Amuche Chikwendu

Journal: Diagnostics

Date: 2022

Paper Title: **Covid-19 identification from low-quality computed tomography using a modified enhanced super-resolution generative adversarial network plus and siamese capsule network**

Authors: Grace Ugochi Nneji, Jianhua Deng, **Happy Nkanta Monday**, Md Altab Hossin, Sandra Obiora, Saifun Nahar, and Jingye Cai

Journal: Healthcare

Date: 2022

Paper Title: **Fine-tuned siamese network with modified enhanced super-resolution gan plus based on low-quality chest x-ray images for covid-19 identification**

Authors: Grace Ugochi Nneji, Jingye Cai, Jianhua Deng, **Happy Nkanta Monday**, Md Altab Hossin, Saifun Nahar, Goodness Temofe Mgbejime, and Jianhua Deng

Journal: Diagnostics

Date: 2022

Paper Title: **Multi-channel based image processing scheme for pneumonia identification**

Authors: Grace Ugochi Nneji, Jingye Cai, Jianhua Deng, **Happy Nkanta Monday**, Md Altab Hossin, Saifun Nahar, and Sandra Obiora

Journal: Diagnostics

Date: 2022

Paper Title: **Identification of diabetic retinopathy using weighted fusion deep learning based on dual-channel fundus scans**

Authors: Grace Ugochi Nneji, Jingye Cai, Jianhua Deng, **Happy Nkanta Monday**, Md Altab Hossin, and Saifun Nahar

Journal: Diagnostics

Date: 2022

Paper Title: **Parallelistic convolution neural network approach for brain tumor diagnosis**

Authors: Goodness Temofe Mgbejime, Md Altab Hossin, Grace Ugochi Nneji, **Happy Nkanta Monday**, and Favour Ekong

Journal: Diagnostics

Date: 2022

Paper Title: **Comparative analysis of building insurance prediction using some machine learning algorithms**

Authors: Chukwuebuka Joseph Ejiyi, Zhen Qin, Abdulhaq Adetunji Salako, **Happy Nkanta Monday**, Grace Ugochi Nneji, Chiagoziem Chima Ukwuoma, Ijeoma Amuche Chikwendu, and Ji Gen

Journal: International Journal of Interactive Multimedia & Artificial Intelligence

Date: 2022

Paper Title: **Federated learning-based detection of invasive carcinoma of no special type with histopathological images**

Authors: Bless Lord Y. Agbley, Jianping Li, Md Altab Hossin, Grace Ugochi Nneji, Jehoiada Jackson, **Happy Nkanta Monday**, and Edidiong Christopher James

Journal: Diagnostics

Date: 2022

Paper Title: **Evae-net: An ensemble variational autoencoder deep learning network for COVID-19 classification based on chest X-ray images**

Authors: Daniel Addo, Shijie Zhou, Jehoiada Jackson, Grace Ugochi Nneji, **Happy Nkanta Monday**, Kwabena Sarpong, Rutherford Agbeshi Patamia, Favour Ekong, and Christyn Akosua Owusu-Agyei

Journal: Diagnostics

Date: 2022

Paper Title: Recent Advancements in Fruit Detection and Classification Using Deep Learning Techniques

Authors: Chiagoziem C. Ukwuoma, Qin Zhiguang, Md Belal Bin Heyat, Liaqat Ali, Zahra Almaspoor, Happy N. Monday

Journal: Mathematical Problems in Engineering

Date: 2022

Paper Title: **Animal species detection and classification framework based on modified multi-scale attention mechanism and feature pyramid network**

Authors: Chiagoziem C. Ukwuoma, Zhiguang Qin, Sophyani B. Yussif, **Monday N. Happy**, Grace U. Nneji, Gilbert C. Urama, Chibueze D. Ukwuoma, Nimo B. Darkwa, Harriet Agobah

Journal: Scientific African

Date: 2022

Paper Title: **Fast Optimization of Sparse Antenna Array Using Numerical Green's Function and Genetic Algorithm**

Authors: Mordecai F. Raji, Huapeng Zhao, **Happy N. Monday**

Journal: International Journal of Numerical Modelling Electronic Networks Devices

Date: 2019

In Conference Proceedings

Paper Title: **The capability of wavelet convolutional neural network for detecting cyber attacks of distributed denial of service in smart grid**

Authors: **Happy Nkanta Monday**, Jian Ping Li, Grace Ugochi Nneji, Abel Zenebe Yutra, Bona Debela Lemessa, Saifun Nahar, Edidiong Christopher James, and Amin Ul Haq

Conference: 2021 18th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)

Date: 2021

Paper Title: **Improved convolutional neural multi-resolution wavelet network for COVID-19 Pneumonia classification**

Authors: **Happy Nkanta Monday**, Jian Ping Li, Grace Ugochi Nneji, Ariyo Oluwasanmi, Goodness Temofe Mgbejime, Chukwuebuka Joseph Ejiyi, Ijeoma Amuche Chikwendu, and Edidiong Christopher James

Conference: 2021 4th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)

Date: 2021

Paper Title: **Shared weighted continuous wavelet capsule network for electrocardiogram biometric identification**

Authors: **Happy Nkanta Monday**, Jian Ping Li, Grace Ugochi Nneji, Edidiong Christopher James, Yobsan Bayisa Leta, Saifun Nahar, and Amin Ul Haq

Conference: 2021 18th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)

Date: 2021

Paper Title: **The Capability of multi-resolution Analysis: A Case Study of Covid-19 Diagnosis**

Authors: **Happy Nkanta Monday**, Jian Ping Li, Grace Ugochi Nneji, Edidiong Christopher James, Ijeoma Amuche Chikwendu, Chukwuebuka Joseph Ejiyi, Ariyo Oluwasanmi, and Goodness Temofe Mgbejime

Conference: 2021 4th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)

Date: 2021

Paper Title: **Covid-19 identification using deep capsule network: A perspective of super-resolution cnn on low-quality CXR images**

Authors: Grace U. Nneji, Jingye Cai, Jianhua Deng, **Happy N. Monday**, Edidiong C. James, Bona D. Lemessa, Abel Z. Yutra, Yobsan B. Leta, and Saifun Nahar

Conference: 2021 the 7th International Conference on Communication and Information Processing (ICCIP)

Date: 2021

Paper Title: **A super-resolution generative adversarial network with Siamese CNN based on low quality for breast cancer identification**

Authors: Grace Ugochi Nneji, Jingye Cai, Deng Jianhua, **Happy Nkanta Monday**, Chukwuebuka Joseph Ejiyi, Edidiong Christopher James, Goodness Temofe Mgbejime, and Ariyo Oluwasanmi

Conference: 2021 4th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)

Date: 2021

Paper Title: **Enhancing low quality in radiograph datasets using wavelet transform convolutional neural network and generative adversarial network for covid-19 identification**

Authors: Grace Ugochi Nneji, Jingye Cai, Deng Jianhua, **Happy Nkanta Monday**, Ijeoma Amuche Chikwendu, Ariyo Oluwasanmi, Edidiong Christopher James, and Goodness Temofe Mgbejime

Conference: 2021 4th International Conference on Pattern Recognition and Artificial Intelligence (PRAI)

Date: 2021

Paper Title: **A dual weighted shared capsule network for diabetic retinopathy fundus classification**

Authors: Grace Ugochi Nneji, Jingye Cai, Jianhua Deng, **Happy Nkanta Monday**, Saifun Nahar, Goodness Temofe Mgbejime, Edidiong Christopher James, and Surafel Kifetew Woldeyes

Conference: 2021 International Conference on High Performance Big Data and Intelligent Systems (HPBD & IS)

Date: 2021

Paper Title: **Analyzing data mining and its application to smart business**

Authors: Saifun Nahar, Ting Zhong, **Happy Nkanta Monday**, Grace Ugochi Nneji, Michael O Mills, and Hassan S Abubakar

Conference: 2019 4th Technology Innovation Management and Engineering Science International Conference (TIMES-iCON)

Date: 2019

Paper Title: **A survey on data stream mining towards the internet of things application**

Authors: Saifun Nahar, Ting Zhong, **Happy Nkanta Monday**, Michael O Mills, Grace Ugochi Nneji, and Hassan S Abubakar

Conference: 2019 4th Technology Innovation Management and Engineering Science International Conference (TIMES-iCON)

Date: 2019

Paper Title: **Medical Image Encryption into Smart Healthcare IoT System**

Authors: Jalaluddin Khan, Jianping Li, Amin Ul Haq, Shadma Parveen, Ghufran Ahmad Khan, Mohammad Shahid, **Happy N. Monday**, Sana Ullah, Sun Ruinan

Conference: 2019 16th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)

Date: 2019

Paper Title: **A Survey on Hand-Based Behavioral Activity Recognition**

Authors: **Happy Nkanta Monday**, Jian Ping Li, Grace Ugochi Nneji, Mordecai Folarin Raji, Chima C. Ukwuoma, Jalaluddin Khan, Chukwuebuka J. Ejiyi, Amin Ulhaq, Saifun Nahar, Hassan S. Abubakar, Chikwendu A. Ijeoma

Conference: 2019 16th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)

Date: 2019

Paper Title: **Identifying the Predictive Capability of Machine Learning Classifiers for Designing Heart Disease Detection System**

Authors: Amin Ul Haq, Jianping Li, Jalaluddin Khan, Muhammad Hammad Memon, Shadma Parveen, Mordecai Folarin Raji, Wasif Akbar, Tanvir Ahmad, Sana Ullah, Latipova Shoista, **Happy N. Monday**

Conference: 2019 16th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)

Date: 2019

Paper Title: **Performance Evaluation of Orthogonal Wavelet Division Multiplex for 5G and Beyond**

Authors: Mordecai F. Raji, Jian Ping Li, Amin Ul Haq, Emmanuel Raji, **Happy N. Monday**

Conference: 2019 16th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP)

Date: 2019

Paper Title: **Construction of equivalent model of patch antenna using magnetic dipole**

Authors: **Happy N. Monday**, Jian P. Li, Mordecai F. Raji, Grace U. Nneji, Abel Ogungbile, and Richard I. Nneji

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **Fast prediction of equivalent model of installed patch antenna radiation pattern**

Authors: **Happy N. Monday**, Jian P. Li, Mordecai F. Raji, Grace U. Nneji, Ifeanyi D. Dike, and Richard I. Nneji

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **Design of an improved cost-effective electronic locking system**

Authors: **Happy Nkanta Monday**, Jian Ping Li, Grace Ugochi Nneji, Chiagoziem C. Ukwuoma, Ifeanyi D. Dike, and Richard I. Nneii

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **Ensuring data governance and enhancing data security in a private cloud environment**

Authors: **Happy Nkanta Monday**, Jian Ping Li, Grace Ugochi Nneji, Chiagoziem C. Ukwuoma, David Agomuo, and Richard I. Nneji

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **Enhanced attendance management system: A biometrics system of identification based on fingerprint**

Authors: **Happy Nkanta Monday**, Jian Ping Li, Grace Ugochi Nneji, Ifeanyi D. Dike, David Agomuo, and Abel Ogungbile

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **A collaborative learning approach for integrated time-based online environment**

Authors: Grace Ugochi Nneji, Jianhua Deng, **Happy Nkanta Monday**, Sarder S Shakher, Basil C Mbonu, and Abel Ogungbile

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **Online collaborative approach of interactive antenatal lectures for expectant mothers**

Authors: Grace Ugochi Nneji, Jianhua Deng, **Happy Nkanta Monday**, Sarder S Shakher, Basil C Mbonu, and Mercy C Nneji

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **A multimedia computer-aided learning software**

Authors: Grace Ugochi Nneji, Jianhua Deng, **Happy Nkanta Monday**, Sarder S Shakher, David Agomuo, and Chiagoziem C Ukwuoma

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **An improved e-clearance management system for graduating students in a university environment**

Authors: Grace Ugochi Nneji, Jianhua Deng, **Happy Nkanta Monday**, Sarder S Shakher, David Agomuo, and Ifeanyi D Dike

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **Android-based information system for marriage counseling**

Authors: Grace Ugochi Nneji, Jianhua Deng, **Happy Nkanta Monday**, Sarder S Shakher, David Agomuo, and Chiagoziem C Ukwuoma

Conference: 2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)

Date: 2018

Paper Title: **Design of Ultra-low-end Controllers for Efficient Stepper Motor Control**

Authors: Mordecai Raji, Akeem Shokanbi, **Happy N. Monday**

Conference: MATEC Web of Conferences

Date: 2018

Research Experience

University of Electronic Science and Technology of China

Sept.2018–June 2022 ***Machine Learning & Deep Learning*** | ***Research Assistant: International Centre for Wavelet Analysis and Its applications***, *UESTC*.

- Developed a Depthwise Separable Convolutional Network with Wavelet Multi-Resolution Analysis module to automatically learn details both spatial-wise and channel-wise for COVID-19 identification with limited Chest X-ray and CT scans which is critical due to the rapid growth of COVID-19.
- Developed a Super Resolution based Siamese Wavelet Multi-Resolution Convolutional Neural Network for pneumonia classification using chest x-ray images.
- Developed a novel Neuro-Wavelet Capsule framework for classifying pneumonia.
- Developed a novel Continuous Wavelet Convolutional Capsule Network with a Super-Resolution Generative Adversarial Network for machine fault diagnosis and classification.
- Developed a Shared Weighted Continuous Wavelet Capsule Network with Siamese Capsule Network framework for Electrocardiogram (ECG) biometric identification.
- Developed a novel end-to-end Continuous Wavelet Transform with Convolutional Neural Network for the detection of distributed denial of service (DDoS) attacks on smart grid infrastructure.
- Developed an enhanced Convolutional Neural Multi-Resolution Analysis algorithm for COVID-19 pneumonia diagnosis capable of handling few datasets which is very paramount due to the fast emergence of COVID-19.
- Investigated the application of Wavelet Transform and developed Wavelet-based Convolutional Neural Network for the classification of COVID-19 patients using chest radiography.
- Organized deep learning workshop for undergraduate students
- Supervised and mentored graduate students in paper publication and thesis formatting using LaTex software

Advisor : **Prof. Jianping Li**, *Professor, School of Computer Science & Engineering*, University of Electronic Science and Technology of China (*UESTC website*), (*ICCWAMTIP Website*)

Teaching Experience

Oxford Brookes University-Chengdu University of Technology (OBU-CDUT)

Module ***Machine Vision*** | ***Computer Science Department***, *September 2022–Till date*.

- Design and deliver machine vision course content to final-year undergraduate students with a class size of 116.
- Conduct weekly practicals to demonstrate state-of-the-art computer vision tasks and implementation using Matlab, Keras, and TensorFlow.
- Prepare mark sheets and rubrics for machine vision coursework.
- Administered and marked all assessments including exams, resits, and re-submissions.

Module ***Computer Networking*** | ***Computer Science Department***, *September 2022–Till date.*

- Design and deliver basic communication and PC networking course content to second-year undergraduate students with a class size of 112.
- Conduct weekly practicals to demonstrate the live simulation of network configurations and subnetting using Cisco Packet Tracer.
- Conduct weekly practicals to capture and analyze network data traffic using Wireshark software.
- Prepare weekly quizzes and seminar tasks for the computer networking course.
- Administered and marked all assessments including weekly quizzes, practical reports, resits, and resubmissions.

Module ***Circuit and Digital Logic*** | ***Computer Science Department***, *February 2023–Till date.*

- Design and deliver circuit and digital logic course content to second-year undergraduate students with a class size of 112.
- Conduct weekly practicals to demonstrate the practical programming of the electronic circuits using Arduino IDE and Arduino Uno hardware.
- Conduct weekly practicals to demonstrate the circuit connections using a solderless breadboard and electronic components.
- Prepare weekly quizzes and seminar tasks for the circuit and digital logic.
- Administered and marked all assessments including weekly quizzes, practical reports, resits, and resubmissions.

Supervision ***32 Project Students*** | ***OBU Computing***, *September 2022 – Till data.*

- Direct project supervision and mentoring of 32 final-year undergraduate students.
- organizing weekly meetings to assess the progress of the student's work.
- Conducting weekly presentations for the student to display their progress report.
- Providing valuable suggestions to students on how to overcome bottlenecks in their projects.
- Vetting students' reports includes opening, mid-term, and final reports.
- coaching the students on implementing up-to-date deep learning algorithms for accomplishing their tasks.

University of Electronic Science and Technology of China

Module ***Machine Learning & Deep Learning***, *September 2018–June 2022.*

- Instruct graduate students and assist them with laboratory implementation of deep learning model and drafting technical manuscripts
- Perform practical coding sessions for students in the machine learning course
- Help undergraduate students employ what they learn in deep learning courses in collecting and preprocessing datasets for model training
- Demonstrate how some of the most important concepts in machine learning are used in real-world applications
- Work intensively with graduate and undergraduate students throughout the semester, from implementing deep learning models to writing academic papers to assist them in developing research skills.

Project

2019–2021 ***Machine Learning & Deep learning***.

- Applied deep learning to medical images for disease diagnosis
- Implemented CNN for vehicle type recognition
- Implemented CNN for biometric identification using Electrocardiogram (ECG)
- Applied CNN for detecting distributed denial of service (DDoS) attacks in smart grid

Academic Achievements & Recognitions

2021 **Best paper Award**, 2021 the 4^{th} International Conference on Pattern Recognition and Artificial Intelligence (PRAI), Yibin, Sichuan, China, August 20–22, 2021

2019–2020 1^{st} Prize, Academic Achievement Award, Doctoral category

2019–2020 2^{nd} Prize, Excellence Performance Award, Doctoral category

2017–2018 1^{st} Prize, Excellence Performance Award, Masters' Category

2017–2018 2^{nd} Prize, Academic Achievement Award, Masters' Category

2017–2018 2^{nd} Best student, School of Electronic Science and Engineering, Masters' Category

Scholarship

2018–2022 Recipient of the ***University Full Scholarship*** for Doctoral Research Program, awarded by the University of Electronic Science and Technology of China (UESTC).

2016–2018 Recipient of the ***University Partial Scholarship*** for Masters' Research Program, awarded by the University of Electronic Science and Technology of China (UESTC).

skills

Skills Deep learning, Computer vision, Machine learning, Image processing

Tools & Libraries OpenCV, Matplotlib, Keras, TensorFlow, Numpy, Scikit-learn, Pandas, R-Studio, MySQL, BigQuery

Programming Python, LaTex, R, SQL

Journal Peer-Review

2024–present IEEE Transactions on Industrial Informatics

2024–present Biomedical Signal Processing and Control

2024–present International Journal of Machine Learning and Cybernetics

2023–present Applied Artificial Intelligence

2023–present Open Science Journal

2022–present Imaging Science Journal

2022–present Peer J

2022–present IJIMAI

2021–present Journal of Medical Internet Research

2020–present JMIR Research Protocol

2019–present JMIR Medical Informatics

2019–present Scientific Reports

2019–present Expert Systems with Applications

2019–present Mathematics

Professional Certificate

2024 Generative AI - IBM

2024 Data Science Professional Certificate - IBM

2024 Data Analytics Professional Certificate - Google

2024 Developing AI Applications with Python and Flask - IBM

2023 Deep Learning Specialization - Stanford University & DeepLearning.AI

Leadership & Voluntary

2021–2022 **Team member**, *Tianjiao Community Service and Development*, Chengdu, Sichuan.

2019-2020 **Team lead**, *Academic Research Mentoring*, University of Electronic Science and Technology of China, UESTC.

2018-2019 **Team lead** , *AI project Camp*, University of Electronic Science and Technology of China, UESTC.

2017-2018 **Student Union Electoral Chairman**, University of Electronic Science and Technology of China, UESTC.